

## *Collaborations and MoUs*

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### *List of MoUs*

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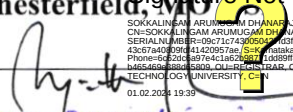
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## JSS Science and Technology University, Mysuru

### List of MoUs of JSS STU with other Universities/Institutions/ Organisations as on July 2023

#### International:

| Sl. No. | Name of the collaborating University/Institution                                        | Mode of Collaboration with date of signature and period       |
|---------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1       | Southern Illinois University Edwardsville<br>USA                                        | Letter of Engagement, 01/01/2018 (5 years)<br>(to be renewed) |
| 2       | University of Illinois, UIC, USA                                                        | MoA, 20/08/18 (5 years)<br>(to be renewed)                    |
| 3       | University of California, Riverside, USA                                                | MoU, 03/06/2019 to 31/12/2021 (2 years)                       |
| 4       | Jeonbuk National University, Jeonbuk, Republic of Korea                                 | MoU, 06-06-2020                                               |
| 5       | Australia India Water Centre<br>9 Australian Universities and<br>15 Indian universities | MoU, 06/11/2020 (5 years)                                     |
| 6       | Holosuit PTE LTD.,<br>Singapore                                                         | MoU, 23/08/2021 (4 years)                                     |
| 7       | Malaysia University of Science and Technology (MUST)<br>Malaysia.                       | MoU, 09/12/2021                                               |
| 8       | ESPAR Consulting LLC, Chesterfield, MO                                                  | MoU, 11/02/2022                                               |

  
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 Associate Professor  
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 JSS Science and Technology University  
 Mysuru - 570 006, India.

|     |                                                                                            |                   |
|-----|--------------------------------------------------------------------------------------------|-------------------|
| 9   | Zenken Corporation, Japan                                                                  | MoU, 30/04/2022   |
| 10  | Saint Petersburg Electrotechnical University, LETI, Saint Petersburg, Russia.              | MoU, 19 July 2022 |
| 11. | Witwatersrand University and JSSAHER (Tripartite Collaboration) Johannesburg, South Africa | MoU, 14/03/2023   |
| 12. | Asia Pacific University, Malaysia                                                          | MoU, 05/07/2023   |

**National:**

| Sl. No. | Name of the collaborating University/Institution                           | Mode of Collaboration with date of signature and period       |
|---------|----------------------------------------------------------------------------|---------------------------------------------------------------|
| 1       | Karnataka State Council for Science and Technology (KSCST), IISc Bangalore | MoU, 18/11/2021(3 years)                                      |
| 2       | JSS AHER Mysuru                                                            | Application Development Agreement<br>05/07/2018 to 04/07/2019 |
| 4       | CSIR CFTRI, Mysuru                                                         | MoU, 02/01/2019 (3 years)                                     |

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|   |                                                           |                           |
|---|-----------------------------------------------------------|---------------------------|
| 5 | National Highway Authority of India (NHAI) Ramanagara.    | MoU, 06/08/2020 (5 years) |
| 6 | Karnataka State Science and Technology Academy, Bengaluru | MoU, 27/08/2020 (3 years) |

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|---|-----------------------------------------------------------------|----------------------------------------------------------|
| 7 | Bangalore Chamber of Industry and Commerce, (BCIC)<br>Bengaluru | MoU, 03/02/2021 (5 years)                                |
| 8 | Indian Rubber Institute (IRI)<br>Kolkata                        | Supplemental MoU, 19/03/2016 to<br>18/02/2046 (30 years) |

#### Industry Institute Collaboration:

| Sl. No. | Name of the collaborating University/Institution                               | Mode of Collaboration with date of signature and period |
|---------|--------------------------------------------------------------------------------|---------------------------------------------------------|
| 1       | Automotive Axles Ltd.(AAL),<br>Mysuru                                          | MoU, 05/11/2016 to 05/11/2019.<br>3 years               |
| 2       | Mercedes-Benz Research and Development India Pvt., Ltd. (MBRDI),<br>Bengaluru. | MoU, 13/02/2017 to 31/12/2020<br>3 years                |
| 3       | Toyoda Gosei South India Pvt., Ltd., (TGSIN),<br>Bidadi.                       | MoU, 18/01/2020 to 17/01/2023<br>3 years                |
| 4       | INFLIBNET Centre,<br>Gandhinagar                                               | MoU, 04/01/2019<br>- can be terminated anytime          |
| 5       | Element 42 Management Solution Pvt. Ltd.<br>Bengaluru                          | Rate Contract Agreement<br>21/01/2019 - 5 years         |
| 6       | Valles Marineris International Pvt. Ltd.<br>Nagpur.                            | MoU, 21/02/2019<br>5 years                              |

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|----|-------------------------------------------------------------------|--------------------------------------------------|
| 18 | Bhoruka Extrusions Pvt. Ltd., Mysuru                              | MoU, 25 July 2022                                |
| 19 | M/s Ujwal Industrial Corporation (UIC), Mysore                    | MOU, 16/01/2020 to 15/01/2023<br>(to be renewed) |
| 20 | Government Tool Room & Training Centre (GTTC), Mysuru.            | MOU, 26/08/2022                                  |
| 21 | Dassault Systemes India Pvt Ltd                                   | MoA, 28/09/2022                                  |
| 22 | Visteon Technical and Services Centre Private Limited, Tamil Nadu | MoU, 12/12/2022                                  |
| 23 | Edunet Foundation                                                 | MoU, 22/12/2022                                  |
| 24 | LOGISYS, Bengaluru                                                | MoU, 30/01/2023                                  |
| 25 | UD Trucks India Pvt Ltd.<br>Bengaluru                             | MoU, 31/03/2023                                  |

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3.7.1 Number of functional MoUs/linkage with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

3.7.1.1: Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

| Year of signing MoU | Name of the organization with whom MOU/Collaboration being signed | Duration | Purpose of MOU/Collaboration                                                                                                                                                                                                                                                                                                                              | List the actual activities under each MOU year-wise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date of the activity conducted                                                       |
|---------------------|-------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2015 - 2016         |                                                                   |          |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |
| 2016                | Indian Rubber Institute (IRI), Kolkata                            | 30       | <ul style="list-style-type: none"> <li>JSSSTU to provide adequate space of 10000 sq ft land in the premises</li> <li>To take permission from Local Authority for renovation, if any etc</li> </ul>                                                                                                                                                        | <ul style="list-style-type: none"> <li>A Centre of Excellence in rubber technology has been established to carry out academic programmes and research and training.</li> <li>The labs are on the way to being equipped.</li> <li>BVoc course was proposed in collaboration.</li> <li>One day online workshop on "Rubber Compounding Technology" was organized on 23/09/2022.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 23/09/2022<br>Faculty members from PST department handled IRI classes for PG Diploma |
| 2018 - 2019         |                                                                   |          |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |
| 2018                | JSS AHER, Mysuru                                                  | 1        | <ul style="list-style-type: none"> <li>Development of DiaGuru app</li> <li>Collaborative research and student project</li> </ul>                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>DiaGuru app has been successfully developed by a team of 4 students and hosted on Google Playstore</li> <li>AI-enabled Web tool for effective management of Diabetes Mellitus has been developed</li> <li>AI-enabled tool is in the testing phase.</li> <li>Students participated in MEDHA2022 organized by IITBombay on 28th May2022 and won Compact Design Award</li> <li>Submitted R&amp;D Proposals to DST SERB in collaboration in April-May 2022 for Rs. 30 lakh</li> <li>Guided PhD Scholars of Community Medicine department in formulation of research problems and development of prototype modules</li> <li>Students (20) and faculty participated in NUTRICON conference and presented papers</li> <li>Submitted R&amp;D project proposal to BIRAC, Govt of INDIA for Rs. 35 lakh. (March-April 2023)</li> <li>Submitted a patent on Medical Device with Dr. Sunil Kumar D , April-May 2023 through Innovation cell of JSSAHER</li> </ul> | 29/12/2023                                                                           |
| 2018                | JSS AHER, Mysuru                                                  | 1        | <ul style="list-style-type: none"> <li>Development of app</li> <li>Collaborative research and student project</li> </ul>                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |
| 2018                | Intuit India P D C Centre Pvt. Ltd. Bengaluru                     | 3        | a) The main objective of this collaboration is to focus on bringing mutually agreed upon successful opportunities that lead to education, training, and research in the                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |
| 2018                | University of Illinois, UIC, USA                                  | 5        | <ul style="list-style-type: none"> <li>Organise joint study programs</li> <li>Terms and budget mutually agreed</li> <li>Implement activities and assess</li> <li>Promote exchange of students</li> <li>Collaborate projects in the areas of teaching, scientific research and management</li> <li>Facilitate timely and accurate communication</li> </ul> | <ul style="list-style-type: none"> <li>No activity has been conducted</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |
| 2018                | JSS AHER Mysuru                                                   |          | Development of JSS Dental app for database creation                                                                                                                                                                                                                                                                                                       | App is being used for data Collection and oral care.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |

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|------|---------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 2019 | Valles Marineris International Pvt. Ltd., Nagpur. | 5 | <ul style="list-style-type: none"> <li>•Partner and collaborate</li> <li>•Provide framework for collaborative activities and review areas of common interest - space technologies, education and science</li> <li>•Facilitate interchange of information, technology and personnel in areas of mutual interest</li> <li>•Nominate relevant points of contact</li> <li>•Facilitate R&amp;D in space technologies</li> </ul> | <ul style="list-style-type: none"> <li>•One workshop has been conducted in 2020.</li> <li>•A Project proposal to design, build and launch a nanosatellite for medical application has been approved by the board of management of JSS in March 2022.</li> <li>•An online workshop on Nanosatellites was conducted between 9th May to 12th May 2022.</li> <li>•Six teams have been formed</li> <li>•with members of all the four institutions: Mechanical and Thermal Team, Sensor and</li> <li>•Instrumentation Team, Power Systems, Control</li> <li>•Systems, Communication</li> <li>•and Software.</li> <li>•Quotation has been received from Valles Marineris</li> <li>•for Rs 80 lakh, for various subsystems and components procurement.</li> <li>•Books and Literature on</li> <li>•Cubesat has been provided to all team members of JSSSTU, JSSATEN, JSSATEB, JSSAHER and Domain Team Meetings have been held.</li> <li>•Online course offered by BRICS going on from 4th Oct to 3rd week of November</li> </ul> | Jan 2023                 |
| 2019 | Asian Polymers, Mandya.                           | 2 | <ul style="list-style-type: none"> <li>•Development of new product, modification of existing polymers</li> <li>•Provide opportunity to students, faculty and organizational professionals</li> </ul>                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>•Consultancy works; Testing and characterization works related to research materials.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |
| 2019 | M/s. Hollingsworth & Vose Advanced Ma             | 5 | <ul style="list-style-type: none"> <li>•Testing and evaluation of samples and materials at facilities of JSSSTU, prospective collaborative research projects.</li> </ul>                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>•Consultancy works; Members from</li> <li>•industry were resource persons for two</li> <li>•of the workshops;</li> <li>•Support during the conference and served as reviewer.</li> <li>•H &amp; V is mainly using SEM and XRD facilities of the department.</li> <li>•A follow up meeting was held on 5th April 2022 regarding future plans.</li> <li>•Three of the pre-final year BE students underwent industrial training at H and V during August 2022.</li> <li>•One of the H&amp;V industrial expert is in BOE (PST) panel.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11/09/2023 to 18/10/2023 |
| 2019 | Tata Consultancy Services Ltd., Mumbai            | 5 | <ul style="list-style-type: none"> <li>•TCS to design and develop Course contents and curriculum of the TCS designed course(s)</li> <li>•JSSSTU to select core topics and faculty members to teach the selected topics.</li> <li>•Workshops for students</li> <li>•FDPs</li> <li>•Best student project awards</li> <li>•Internship</li> </ul>                                                                              | <ul style="list-style-type: none"> <li>•CSBS course is on-going.</li> <li>•Organised FDPs and SDPs for students in association with TCS.</li> <li>•Received sponsorship for Jayciana and Tech fests prior to COVID.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Regular                  |

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|------|---------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 2021 | Nokia Solutions and Networks India Private Limited            | 3 | <ul style="list-style-type: none"> <li>• Nokia experts on BoS to shape curriculum</li> <li>• Deliver lectures to students</li> <li>• Mentor student projects</li> <li>• Chair technical symposia</li> <li>• Provide internships</li> <li>• JSSSTU to align course curriculum jointly</li> <li>• Define criteria to set students to participate in Nokia program</li> <li>• Define methodology evaluation and criteria for elective course offered by Nokia</li> </ul>               | <ul style="list-style-type: none"> <li>• Online activity has been conducted.</li> <li>• Proposed to offer electives.</li> <li>• Planning to conduct online/offline FDP and 2 technical talks.</li> <li>• Planning Industrial visit to the company.</li> <li>• Events organized: <ul style="list-style-type: none"> <li>• Nokia Collegiate</li> <li>• Wilderness coding 2022</li> <li>• Nokia Webinar on 5G</li> <li>• Nokia Webinar on Backhaul Transport</li> <li>• Nokia Webinar on Network Slicing</li> <li>• Python Workshop</li> </ul> </li> <li>• Under the guidance of Nokia, 9 students are engaged in two separate projects.</li> <li>• Approximately 10 to 15 students have received</li> <li>• Internship opportunity, with</li> <li>• approximately 8 being converted to full time</li> <li>• positions.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20/11/2023 |
| 2020 | National Highway Authority of India (NHAI)                    | 5 | <ul style="list-style-type: none"> <li>• To bridge gap between institute and industry, familiarise students, faculty and researchers with the latest trend in the highway/transportation sector</li> <li>• Voluntary initiative of adoption of nearby stretches such as Mysuru to Madikeri section for field study for students, researchers and faculty under ambit of Institutional Social Responsibility (ISR).</li> <li>• Internships to UG/PG students with stipend</li> </ul> | <ul style="list-style-type: none"> <li>• A Research scholar has been doing research in Central Board Research Institute.</li> <li>• Participated in Mysuru-Madikeri 5- way tender for involvement in the design stage.</li> <li>• Arranged a technical field trip for 130 students of Civil Engineering in the fourth semester on</li> <li>• July 21 and 22. The students had the opportunity to learn about the construction of flexible</li> <li>• and rigid pavements, major bridge structures, road over bridge, road underpasses, and the toll plaza of the expressway that is currently being built between Mysore and Bangalore.</li> <li>• They have also visited the quality control labs, the crusher units, the hot mix plant, and the ready-mix plant facility.</li> <li>• A request for the DPR designs of NH 275 between Mysuru and Madikeri, which is planned</li> <li>• to be upgraded to four lanes, is made to the Director (Project) NHAI. This will allow faculty</li> <li>• and students to work on an important live project as part of the road safety auditing at the DPR stage. The Director has consented to the same and has assured to provide the required</li> <li>• information.</li> <li>• NHAI's Director (Project) was requested to encourage our students by accepting their applications for internships, and this request was also accepted. It is planned to send a few</li> <li>• UG students and a few PG students prior to the start of the odd</li> </ul> | 21/07/2023 |
| 2021 | Bangalore Chamber of Industry and Commerce, (BCIC), Bengaluru | 5 | <ul style="list-style-type: none"> <li>• To promote skilling among students, curricula, training and workshops</li> <li>• To promote entrepreneurship and innovation</li> </ul>                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• BCIC conducted Student development programmes.</li> <li>• BCIC has been providing Career guidance to students</li> <li>• Three workshops have been conducted.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2022       |



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|------|------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 2023 | Witwatersrand University and JSSAHER (Tripartite Collaboration) Johannesburg, South Africa                 |   | <ul style="list-style-type: none"> <li>To promote collaboration in respect of identifying and conducting research of mutual interest.</li> <li>•Student and Faculty mobility (both ways).</li> <li>•Joint academic activities: seminars, conferences, virtual hackathons in areas of mutual focus.</li> <li>•Joint research activities: through match-making researchers from both institutions according to areas of expertise. This will lead to further activities such as joint student projects, joint-supervision, joint publications.</li> <li>•Senior faculty can be External Examiners for Ph.D. theses.</li> <li>•Internships and summer schools for students.</li> </ul>                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>•Student project on Student Engagement.</li> <li>•Joint paper publication- Manuscript submitted.</li> </ul> | 04-01-2024 |
| 2022 | Graphic Era Deemed-to-be-University (GEU), Dehradun, Uttarakhand-248001                                    |   | <ul style="list-style-type: none"> <li>•GEU and JSS STU to organize seminars, workshops, training programs, student exchange programs, and other activities in the fields of culture, cuisine, art, literature, tourism, etc to showcase the rich heritage and culture, customs and traditions of either State for enabling people to understand and appreciate the diversity that is India, thus fostering a sense of common identity.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>•Planning is in progress</li> </ul>                                                                         |            |
| 2023 | Centre for Nano Science Engineering and Technology (C-NEST), JSS College of Pharmacy (JSSAHER), Ootacamund | 5 | <ol style="list-style-type: none"> <li>1. FOSTER research collaboration between Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS Science &amp; Technology University, Mysuru and CNEST, JSS College of Pharmacy (JSS Academy of Higher Education &amp; Research) Ootacamund.</li> <li>2. SET the ground for long-term inter Departmental partnerships in all possible avenues.</li> <li>3. STRENGTHEN the research and innovative capacities of C-NEST, JSS College of Pharmacy (JSS Academy of Higher Education &amp; Research), Ootacamund and Department of Polymer Science and Technology, Sri Jayachamarajendra College of Engineering, JSS STU, Mysuru for advanced industry-driven research and innovation.</li> <li>4. PROVIDE access to both the parties regarding the physical, chemical, and intellectual resources available at both the places for applied and problem-based research activities on mutual concern.</li> </ol> |                                                                                                                                                    |            |
| 2023 | Asia Pacific University, Malaysia                                                                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    | 28/08/2023 |

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**JSS Science and Technology University**  
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**Mysore - 570 006, Karnataka**





### List of year wise activities and exchange

**International:**

| Sl. No. | Name of the collaborating University/Institution     | Name of the coordinator of the partnering university/institute                   | Objectives of the MoU                                                                                                                                                                         | Mode of Collaboration with date of signature and period      | JSSSTU coordinator | Status      | Activities carried out till now                                                                                                       | Future Plans                           |
|---------|------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1.      | <b>Southern Illinois University Edwardsville USA</b> | Dr. Mary Konya Weshaar<br>Executive Director,<br>International Affairs,<br>SIUE. | -Faculty exchange<br>-Student exchange<br>-Research collaboration<br>-Teaching collaboration<br>-Practical training in pre-identified field sites and/or curriculum or materials developments | <b>Letter of Engagement</b><br><br>01/01/2018<br><br>5 years |                    | In progress | Planned student mobility with 3+1+1 model. Decision is pending.<br><br>Following up on re-engaging with SIUE to renew the discussions | Sign an MoU with SIUE<br><br>Re-engage |

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(Established Under JSS Science and Technology University Act No. 43 of 2013)



| Sl. No. | Name of the collaborating University/Institution | Name of the coordinator of the partnering university/institute | Objectives of the MoU                                                                                                                                                                                                                                                                                         | Mode of Collaboration with date of signature and period | JSSSTU coordinator                             | Status   | Activities carried out till now | Future Plans |
|---------|--------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|----------|---------------------------------|--------------|
| 2.      | <b>University of Illinois, UIC, USA</b>          | Mr Avijit Ghosh<br>Comptroller<br>UIC                          | <ul style="list-style-type: none"> <li>- Organise joint study programs</li> <li>- Terms and budget mutually agreed</li> <li>- Implement activities and assess</li> <li>- Promote exchange of students</li> <li>- Collaborate projects in the areas of teaching, scientific research and management</li> </ul> | <b>MoA</b><br><br>20/08/18<br><br>5 years               | Dr. B S Harish<br>(Deputy Registrar)<br>JSSSTU | Inactive | No activity has been conducted  | Re-engage    |

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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------|----------|---------------------------------|--------------|
|         |                                                  |                                                                | - Facilitate timely and accurate communication                                                                                                                                          |                                                                                         |                                                |          |                                 |              |
| 3.      | <b>University of California, Riverside, USA</b>  | Dr. Jean-Bernard Adrey<br>Associate Dean<br>UIC                | <ul style="list-style-type: none"> <li>- Custom program for students</li> <li>- Student mobility (University credit program)</li> <li>- Postgraduate certificate and diploma</li> </ul> | <b>MoU</b><br><br>03/06/2019 to 31/12/2021<br><br>2 years<br><br><b>(To be Renewed)</b> | Dr. B S Harish<br>(Deputy Registrar)<br>JSSSTU | Inactive | No activity has been conducted  | Re-engage    |

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|---------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.      | <b>Jeonbuk National University, Jeonbuk, Republic of Korea</b> | Prof Dong-Heon Lee<br>Vice President – International Affairs<br>Jeonbuk National University, Republic of Korea | <ul style="list-style-type: none"> <li>- Joint research and development activities and sharing of resources</li> <li>- Student and faculty exchange</li> <li>- Advanced education opportunities to students</li> <li>- Short/Long term joint academic programs.</li> <li>- Collaborative research</li> </ul> | <b>MoU</b><br>06-06-2020                                | Dr. G S Ananthapadmanabha and Prof. M P Chandresh<br>Dept of Polymer Science and Technology, JSSSTU | Ongoing | <p>Members from university were resource persons for workshops and conferences. PST students are being absorbed for a Master degree at their university.</p> <p>After a conversation with JBNU president it is planned as follows:</p> <p>He has vacancies for the positions of post doc; collaborative research; &amp; Professor would be visiting our institute sometimes.</p> | <p>Faculty &amp; student exchange programs are planned for next academic year. The same has been communicated to Prof. Joong Hee Lee.</p> <p>Planned to invite keynote /plenary speakers for forthcoming international conference in 2023.</p> |

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|---------|--------------------------------------------------|----------------------------------------------------------------|---------------------------|---------------------------------------------------------|--------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|         |                                                  |                                                                | - Joint academic programs |                                                         |                    |        | Dr. Somesh T. E., a PhD candidate from PST dept. (Under Prof. Siddaramaiah), got an opportunity for pursuing his post doctoral research program & JBNU & he reported for the same. |              |

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|---------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.      | <b>Australia India Water Centre</b><br><br>9 Australian Universities and 15 Indian universities | Professor Basant Maheshwari Western Sydney University<br>And<br>Prof Arup kumar Sarma, IIT Guwahati. | <ul style="list-style-type: none"> <li>- The Australia India Water Centre will enable Australian and Indian partner to explore opportunities and create synergy for a longer-term collaboration in research and education between the two countries.</li> <li>- In particular, the parties anticipate this will include</li> </ul> | <p><b>MoU</b></p> <p>06/11/2020</p> <p>5 years</p>      | Dr. Pushpa Tuppada, Dept of Environmental Engg, JSSSTU | On-going | <p>A 2-day workshop on “Water Conclave” was organised.</p> <p>This event is an initiative towards Australia India Water Centre to which 15 Indian and 9 Universities/Organizations from Australia are partners.</p> <p>TEQIP-III sponsored 2-day workshop on “Water Conclave – for a better future” on 15th and 16th March, 2021</p> | <ul style="list-style-type: none"> <li>● Sustain the student exchange program</li> <li>● Sustain the Young Water Professionals (YWP) in a Situation Understanding and Improvement Project (SUIP)</li> <li>● Organizing two days workshop in the area of water sector in association with AIWC</li> </ul> |

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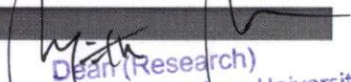
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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                  |                                                                | collaboration in water research, a joint Master's level program in water futures, student and staff exchanges, workshops and conferences and provide short-term training in water sector to government agencies and other participants. |                                                         |                    |        | <p>Several meetings were held for starting Masters Programme in Water Future with participation of member Universities/Institutions.</p> <p>Several meetings (online via Zoom platform) have been held, organized by the heads of AIWC consortium to discuss the various activities to be undertaken by AIWC. As an outcome of the discussions, following</p> | <p>partner institutes and universities for working professionals.</p> <ul style="list-style-type: none"> <li>• Work out the possibilities of including the option (in the MTech curriculum) of earning some credits from AIWC courses</li> <li>• Explore research collaboration with the partners of AIWC</li> </ul> |

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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|         |                                                  |                                                                |                       |                                                         |                    |        | <p>two major programs have been evolved in which the member representatives and students from JSSSTU have been involved.</p> <p>(1) The India Young Water Professional training program was launched on November 29, 2021 (Monday) during 4-5 pm Sydney time and 10.30 -11.30 Indian time.</p> <p>Young Water Professionals (YWPs)</p> |              |

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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|         |                                                  |                                                                |                       |                                                         |                    |        | <p>in a Situation Understanding and Improvement Project (SUIP). Dr. B. Manoj Kumar and Dr. Pushpa Tuppad served as mentors for two YWP teams.</p> <p>(2) Students exchange program - Australia/India Land and Water Conservation Virtual Program. 03 students of BE Environmental Engineering were selected for this program. They</p> |              |

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# JSS Mahavidyapeetha

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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|         |                                                  |                                                                |                       |                                                         |                    |        | <p>obtained certificates of completion.</p> <p>A partner meeting of AIWC was held from 21-24 November 2022 in Delhi. The meeting was attended by Dr.Sadashiva Murthy B M, Prof. &amp; Head and Dr.PushpaTuppad, Associate Professor, Dept. of Environmental Engg., SJCE, JSSSTU, Mysuru on Wednesday, 23/11/2022 and Thursday, 24/11/2022 held at ICAR, National</p> |              |

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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|         |                                                  |                                                                |                       |                                                         |                    |        | Agricultural Science Complex, Pusa, Delhi. This was a great opportunity to meet, in person, the AIWC partners from India and Australia. Brain storming discussions were held, particularly focussing on developing an action plan to take the AIWC collaboration in research, education, training and outreach to the next level. |              |

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|---------|-----------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 6.      | <b>Holosuit PTE LTD., Singapore</b>                                   | Harshavardhana Kikkeri<br>Managing Director<br>Holosuit PTE Ltd. | <ul style="list-style-type: none"> <li>- Skill Development programs</li> <li>- Guest lectures</li> <li>- FDP</li> <li>- Placement and training</li> </ul>                                           | <b>MoU</b><br><br>23/08/2021<br><br>4 years             | Dr. M P Pushpalatha<br>Dept of CSE<br>JSSSTU | On-going | Robotics subject has been included for final year students. The company is providing mentorship for NAIN project execution.                                                                            | Planning for B.E. (Honors), certification courses and guest lectures.                                                    |
| 7.      | <b>Malaysia University of Science and Technology (MUST) Malaysia.</b> | Prof. Dr. Premkumar Rajagopal<br>President, MUST                 | <ul style="list-style-type: none"> <li>- Student Exchange Programme:</li> <li>- Faculty Exchange Programme</li> <li>- Collaborative Research</li> <li>- Short term Certification courses</li> </ul> | <b>MoU</b><br><b>09/12/2021</b>                         | Dr.Kavyashree,<br>CMS                        | On-going | JSSCMS has initiated to have a Seminar on "Digital Marketing" for the Students and Faculty of MUST, Malaysia and JSSCMS, JSSSTU, Mysuru and has been proposed to MUST, Malaysia and been following up. | To encourage academic exchange among faculty and students for the purpose of engaging in mutually beneficial activities; |

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|---------|--------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- Joint Seminars, Webinars and Conferences</li> <li>- Any other initiatives based on mutual interests.</li> </ul> |                                                         |                    |        | <p>The event will be organized after getting feasible dates from MUST, Malaysia.</p> <p>Meet and Greet interactive session between the faculty members of MUST and faculty members of JSSCMS was held on 12th May, 2022.</p> <p>Webinar on “digital Marketing” was proposed to MUST, Malaysia from JSSCMS.</p> <p>The proposal was declined by MUST,</p> | <p>To engage in academic conferences and webinars/seminars</p> <p>To engage external examiners and supervision in the areas of Human Resources, Finance, and Digital Marketing</p> <p>To conduct collaborative research projects</p> |

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Mysore - 570 006, Karnataka.



**JSS Mahavidyapeetha**  
**JSS Science and Technology University**  
 (Established Under JSS Science and Technology University Act No. 43 of 2013)



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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                  |                                                                |                       |                                                         |                    |        | <p>due to academic activities at their end.</p> <p>Meeting in view of Student Exchange program is scheduled in the 1st week of JUNE 2023.</p> <p>JSSCMS, has conducted screening test to shortlist the candidates for student exchange program on 12.5.2023.</p> <p>An interaction session between the faculty</p> | <p>Discussions and planning is in progress to have a Webinar on topic of mutual interest by both the universities.</p> <p>Discussion and planning is in progress to propose student and faculty exchange programme with MUST.</p> <p>Discussion and planning is in progress to host a</p> |

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|         |                                                  |                                                                |                       |                                                         |                    |        | <p>members of IT department, MUST and Faculty members of ISE /CSE /MCA, JSS STU was held on 16th June, 2022.</p> <p>The areas of exploration for collaboration as per the discussion were:</p> <ol style="list-style-type: none"> <li>1. Dual Degree (BIT and MSc IT)</li> <li>2. Student Mobility</li> <li>3. Faculty Exchange (1 semester or 1 year)</li> </ol> | <p>Joint Conference in Hybrid /Online Mode.</p> <p>Further meeting to discuss the modalities of conducting the Student Exchnage Program is tentatively scheduled in the 1st week of June, 2023.</p> |

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|         |                                                  |                                                                |                       |                                                         |                    |        | 4. Joint Research and Publications and Conferences.<br>5. JSS senior faculty can be External Examiners for MUST IT PhD theses.<br>6. JSS Bachelor/Master students can take Micro-credentials offered by MUST. <ul style="list-style-type: none"> <li>Each Micro-credential is worth 3-4 credits (equivalent to 1 course)</li> </ul> |              |

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|         |                                                  |                                                                |                       |                                                         |                    |        | <ul style="list-style-type: none"> <li>MUST will issue the certificate.</li> </ul> <p>7. PhD program.</p> <p>JSS junior faculty + Master holders can pursue their PhD in Informatics (approx. 3 years).</p> |              |

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|---------|---------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.      | <b>ESPAR Consulting LLC, Chesterfield, MO USA</b> | Mr. Nagendra Sanjeeva, Partner and LLC Member, ESPAR Consulting LLC, Chesterfield, MO USA | <ul style="list-style-type: none"> <li>- To foster research collaboration between JSS STU and ESPAR.</li> <li>- To set the ground for longer-term university-industry partnerships in the possible avenues.</li> <li>- To strengthen innovative capacities of ESPAR</li> </ul> | <b>MoU 22/03/2022</b>                                   | Dr. Mallikarjuna Swamy,<br><br>Dept of E&I | On-going | 1. Students are working on Industry based projects<br>2. Organized Invited talks<br>Details:<br>1.Mr. Nagendra Sanjeeva and Mr. Prasanna Hegde delivered Technical Talk on the topic "Technology Advancements in Mobile Applications and Data Analytics" to students of Dept. of E&I, Dept. of ISE. | 1. Industry based projects<br>2. Internships to students<br>3. Organize Invited talks to train the students for industry preparedness<br>4. Organize Symposium /workshop<br><br><b>Future plans</b><br>Collaborative student projects |

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|         |                                                  |                                                                | <p>CONSULTING industry and advance industry-driven research and innovation.</p> <p>- To provide university access to industrial environments for applied and problem-based research activities.</p> |                                                         |                    |        | <p>Four student groups carried out project work and presented the work in the International workshop.</p> <p>Invited talk on 'Carrier readiness, Innovation and Entrepreneurship' by Mr. Raghu Vishwanath, Co-Founder, Blue Mind Solutions, USA, an event under 'Diamond Jubilee Year 1963-2022', IIC, JSSSTU in collaboration with</p> | <p>Invited talks from International experts International Workshops</p> |

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|         |                                                  |                                                                |                       |                                                         |                    |        | <p>ESPAR, USA on 21 Nov 2022.</p> <p>One Week International Workshop on Interdisciplinary Topics on Electronics, Instrumentation and Healthcare Engineering, 19-23<sup>rd</sup> December 2022 ('Diamond Jubilee Year:: 1963-2022'), in collaboration with ESPAR, USA</p> |              |

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| 9.      | <b>Zenken Corporation, Japan</b>                 | Junnosuke Hayashi<br>CEO, Zenken Corporation, Japan            | <ul style="list-style-type: none"> <li>- Provide information and educational services on Japanese culture, language, business and business skills.</li> <li>- Provide web-based educational contents and tests focusing on career opportunities in Japan.</li> <li>- Provide a matching service between</li> </ul> | <b>MoU 30/04/2022</b>                                   | Dr Pradeep M.,<br>Placement and Training Officer, JSSSTU | On-going | Planning is in progress         |              |

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|         |                                                  |                                                                | <p>Japanese companies and the students, etc. regarding job and internships in Japan</p> <p>- Plan and manage recruiting activities on-campus and off-campus involving corporate briefing and job interviews, which may be conducted jointly for</p> |                                                         |                    |        |                                 |              |

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|         |                                                  |                                                                | multiple schools or other entities. |                                                         |                    |        |                                 |              |

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| 10.     | <b>Saint Petersburg Electrotechnical University, LETI, Saint Petersburg, Russia.</b> | Dr. Kirill Krinkin, and Dr. Shichkina Yulia, Professor, Alexander Popov International Innovation Institute for AI, Cybersecurity and Communications, Saint Petersburg Electrotechnical University "LETI", Saint Petersburg, Russia | <ul style="list-style-type: none"> <li>- Joint industry and research activities.</li> <li>- Exchange of visiting experts for the purpose of conducting research</li> <li>- Discussion for the exchange of facilities and equipment for collaborative or independent research based on the policies of both entities.</li> <li>- Exchange scholarly information</li> </ul> | <b>MoU</b><br><b>19 July 2022</b>                       | Dr. S.P. Shiva Prakash, Department of Information Science and Engineering | On-going | <p>A 10-day International Summer School Programme on "Co-Evolutionary Intelligence and its Applications" has been organised from 18-27, July 2022, supported by the Ministry of Science and Higher Education of the Russian Federation by the Agreement No. 075-15-2022-291.</p> <p>Two rounds of virtual meetings were held to discuss a collaborative research project on</p> | <ol style="list-style-type: none"> <li>1. Collaborative research on Neuro-cognitive disorder.</li> <li>2. Organize Invited Lectures.</li> <li>3. Invited Prof. Yulia as an Adjunct Professor.</li> <li>4. Conduct Summer School for the students.</li> <li>5. Design and develop a new course that can be offered to the PG programme.</li> </ol> |

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|         |                                                  |                                                                | <p>including research papers, indices to theses, books, magazines on relevant subjects and potential joint projects where possible and</p> <ul style="list-style-type: none"> <li>- appropriate.</li> <li>- Extend invitations for attending scholarly and technical meetings as well as national and</li> </ul> |                                                         |                    |        | Neuro-cognitive disorder.       |              |

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|         |                                                  |                                                                | international conferences. |                                                         |                    |        |                                 |              |

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| 11.     | <b>Witwatersrand University and JSSAHER (Tripartite Collaboration) Johannesburg, South Africa</b> | Dr. Ashwini Jadhav<br>Prof. Nithaya Chetty<br>Dean: Faculty of Science | - To promote collaboration in respect of identifying and conducting research of mutual interest. | <b>MoU, 14/03/2023</b>                                  | Dr. Vanishri Arun,<br>Department of Information Science and Engineering | On-going | Student project on Student Engagement.<br><br>Joint paper publication- Manuscript submitted. | a. Data Mining for Student Performance Prediction in Education<br>b. An android-based application to predict student attrition |

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| 12.     | Asia Pacific University, Kuala Lumpur, Malaysia  | Prof. Dr. Ho Chin Kuan, Vice Chancellor<br>Prof. Dr. Andrew Seddon, Senior Director - Partnerships and Standards | <ul style="list-style-type: none"> <li>- Student and Faculty mobility (both ways).</li> <li>- Joint academic activities: seminars, conferences, virtual hackathons in areas of mutual focus.</li> <li>- Joint research activities: through match-making researchers from both institutions according to areas</li> </ul> | MoU<br>05/07/2023                                       | VC, JSSSTU         | On-going |                                 | <ul style="list-style-type: none"> <li>- To organize a joint colloquium for research presentations by faculty and research scholars from both the institutions to connect people with common areas of expertise.</li> </ul> |

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# JSS Science and Technology University

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| Sl. No. | Name of the collaborating University/Institution | Name of the coordinator of the partnering university/institute | Objectives of the MoU                                                                                                                                                                                                                                      | Mode of Collaboration with date of signature and period | JSSSTU coordinator | Status | Activities carried out till now | Future Plans |
|---------|--------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------|---------------------------------|--------------|
|         |                                                  |                                                                | <p>of expertise. This will lead to further activities such as joint student projects, joint-supervision, joint publications.</p> <p>- Senior faculty can be External Examiners for Ph.D. theses.</p> <p>- Internships and summer schools for students.</p> |                                                         |                    |        |                                 |              |

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| Sl. No. | Name of the collaborating University/Institution | Name of the coordinator of the partnering university/institute | - Objectives of the MoU                                                                                                                                                                        | Mode of Collaboration with date of signature and period | JSSSTU coordinator | Status   | Activities carried out till now                                    | Future Plans                                                           |
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| 1.      | <b>Karnataka State Council for Science and</b>   | Executive Secretary, KSCST.                                    | <ul style="list-style-type: none"> <li>- Technical assistance related to IPR</li> <li>- Organise workshops, training programs, research activities and development of IPR ecosystem</li> </ul> | <b>MoU</b><br>08/10/2021<br>18/11/2021<br>3 years       | Dean (Research)    | On-going | One seminar has been organized.<br>One seminar is in the pipeline. | 1. Proposed to organize coordination committee meeting on 27 th August |

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SOKKALINGAM ARUNACHANDRAN  
 CHIEF REGISTRAR  
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**Dean (Research)**  
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| Techno<br>gy<br>(KSCST),<br>IISc<br>Bangalore |  | - Identify potential IP<br>innovators |  |  |  | Small Grant for<br>National Science day<br>has been sanctioned.<br>Prior Art Search has<br>been done for a patent<br>application.<br>Five Days Workshop<br>on Research<br>Methodology was<br>organized from MArch<br>21-25, 2022. | 2022 to evaluate the<br>quality of patents<br>submitted by<br>various faculty<br>members.<br>2. Proposed to organize<br>a<br>workshop on IPR in<br>the<br>mid- September 2022.<br>3. Received a grant of<br>Rs. 50,000.00 towards<br>the conduction of IPR<br>Awareness / workshop<br>/ training and IP<br>competitions. The<br>same has been planned<br>in the month of Aug.<br>2023. |
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| 2. | JSS<br>AHER<br>Mysuru | Dr. Sunil<br>Kumar, Dept<br>of<br>Community<br>Medicine<br>JSSAHER,<br>Mysuru | Development of DiaGuru app<br>- | <b>Application<br/>Development<br/>Agreement</b><br><br>05/07/2018 | Dr.<br>Vanishri<br>Arun<br>Dept of<br>ISE<br>JSSSTU | App is<br>being<br>used by<br>the<br>Departm<br>ent of<br>Commun<br>ity<br>Medicine<br>for data<br>Collectio<br>n , and<br>Monitori<br>ng and<br>Control<br>of<br>Diabetes. | <ul style="list-style-type: none"> <li>- DiaGuru app has been successfully developed by a team of 4 students and hosted on Google Playstore</li> <li>- AI-enabled Web tool for effective management of Diabetes Mellitus has been developed</li> <li>- AI-enabled tool is in the testing phase.</li> </ul> | Analysis on data collected            |
| 3. | JSS<br>AHER<br>Mysuru | Dr. Sunil<br>Kumar, Dept<br>of<br>Community<br>Medicine                       | Collaborative research          |                                                                    | Dr.<br>Vanishri<br>Arun<br>Dept of<br>ISE<br>JSSSTU | On-going                                                                                                                                                                    | Working on<br>"Development And<br>Validation Of<br>Artificial<br>Intelligence Enabled<br>Fluorescence Device                                                                                                                                                                                               | Joint R&D proposals<br>& publications |

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|  |  | JSSAHER,<br>Mysuru |  |  |  |  | <p>For Early Detection And Diagnosis Of Dental Caries"</p> <p>Working on "Medical Technology based smartphone application in the Management of Cancer"</p> <p>Published 3 research papers in Elsevier journals.<br/>Jointly submitted R&amp;D proposals to ICMR, DST and SERB</p> <p>Dr. Vanishri Arun has been Appointed as an External Expert for 3 PhD research scholars at JSS AHER.</p> |  |
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| 4. | <b>JSS<br/>AHER<br/><br/>Mysuru</b> | Dr. Sunil<br>Kumar,<br><br>Dept. of<br>Community<br>Medicine,<br>JSSAHER,<br>Mysuru | Collaborative Research |  | Dr. M.S.<br>Mallikarju<br>naSwamy<br><br>Dept. of<br>E&I | On-<br>going | Students participated in<br>MEDHA2022<br>organized by<br>IITBomaby on 28 <sup>th</sup><br>May2022 and won<br>Compact Design<br>Award<br><br>Submitted R&D<br>Proposals to DST<br>SERB in collaboration<br>in April-May 2022 for<br>Rs. 30 lakh<br><br>Guided PhD Scholars<br>of Community<br>Medicine department<br>in formulation of<br>research problems and<br>development of<br>prototype modules<br><br>Students (20) and<br>faculty participated in | Joint R&D proposals<br>& publications<br><br>Joint Student Projects<br><br><b>Future plans</b><br><br>Joint publications<br><br>Joint patents<br><br>Joint R&D work |
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|    |                 |                   |                                            |  |                            |  | <p>NUTRICON conference and presented papers</p> <p>Submitted R&amp;D project proposal to BIRAC, Govt of INDIA for Rs. 35 lakh. (March-April 2023)</p> <p>Submitted a patent on Medical Device with Dr. Sunil Kumar D , April-May 2023 through Innovation cell of JSSAHER</p> |                             |
| 5. | JSS AHER Mysuru | Dr. Sarvanan Babu | Collaborative research and student project |  | Dr. M.S. MallikarjunaSwamy |  | Development of Apnea Monitor prototype-completed                                                                                                                                                                                                                             | Student Projects and events |

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|  |  | <p><b>Professor,<br/>JSS College<br/>of<br/>Pharmacy</b></p> <p>JSSAHER,<br/>Mysuru</p> |  |  | <p>Dept. of<br/>E&amp;I</p> |  | <p>Compact Design<br/>Award, MEDHA2022<br/>(Medical Device<br/>Hackathon), Harish<br/>Kulkarni &amp; Amith 6<sup>th</sup><br/>students won the award<br/>for their design idea, at<br/>IITBombay on 28<sup>th</sup><br/>May2022</p> <p>2 group of students<br/>presented innovative<br/>device design ideas at<br/>MEDHA 2023, 6th &amp;<br/>13th May 2023 with<br/>medical and pharmacy<br/>students</p> |  |
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| 6. | <b>JSS<br/>AHER<br/>Mysuru</b> | Dr. Anitha,<br>JSS Dental<br>College<br>JSSAHER,<br>Mysuru | Development of JSS Dental<br>app for database creation | <b>Application<br/>Development<br/>Agreement</b><br><br>05/07/2018 | Dr.<br>Vanishri<br>Arun<br>Dept of<br>ISE<br>JSSSTU | App is<br>being<br>used for<br>data<br>Collection<br>and<br>oral care. | JSS Dental app has<br>been developed by a<br>team of 4 students | Statistical Analysis<br>using the Dataset<br>created. |
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| 7. | <b>CSIR<br/>CFTRI,<br/>Mysuru</b> | Dr. KSMS<br>Raghavaro,<br>Director,<br>CSIR-CFTRI | <ul style="list-style-type: none"> <li>- Build capabilities of Human Resources (students, Research Scholars and Faculty) through skill development programmes and advanced Research collaboration in the areas of mutual interest</li> <li>- Enhance Research and Academic Standards by specific programmes of activities.</li> <li>- Enable lab facilities as per CSIR-CFTRI norms and procedures</li> <li>- Allow library facilities for students at CSIR-CFTRI</li> <li>- CSIR- CFTRI to conduct short term training / skill development programmes for students</li> </ul> | <b>MoU</b><br><br>02/01/2019<br><br>3 years<br><br><b>(To be Renewed)</b> | Dean<br>(Research)<br>JSSSTU | <b>To be renewed</b> | An amount of Rs. 1,50,000/- has been released to JSSAHER on 30-4-2022 for implementation of the project on Biochemical analysis of Diabetic patients. | Action is being initiated to collect blood samples from diabetic patients for Biochemical analysis. |
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|  |  |  | <p>on topics of interest with mutual consultations.</p> <ul style="list-style-type: none"> <li>- CSIR-CFTRI to support academic programmes.</li> <li>- JSSSTU to extend lab facilities and expertise to research scholars and faculty of CSIR-CFTRI</li> <li>- Identify topics of mutual interest for collaborative activities</li> <li>- Collaborate in areas of AI/CI for detection of food adulteration, quality evaluation, automation of process in food preparation and formulation of health care food and nutraceuticals.</li> </ul> |  |  |  |  |  |
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| 8. | <b>National Highway Authority of India (NHAI) Ramanagara.</b> | Project Director, NHAI | <ul style="list-style-type: none"> <li>- To bridge gap between institute and industry, familiarise students, faculty and researchers with the latest trend in the highway/transportation sector</li> <li>- Voluntary initiative of adoption of nearby stretches such as Mysuru to Madikeri section for field study for students, researchers and faculty under ambit of Institutional Social Responsibility (ISR).</li> <li>- Internships to UG/PG students with stipend</li> </ul> | <b>MoU</b><br><br>06/08/2020<br><br>5 years | Dr. Nanjundas wamy P.,<br>Dept of Civil Engineerin<br>g.<br>JSSSTU | On-going<br><br>No recent activity due to COVID | <p>A Research scholar has been doing research in Central Board Research Institute.</p> <p>Participated in Mysuru-Madikere 5- way tender for involvement in the design stage.</p> <ul style="list-style-type: none"> <li>• Arranged a technical field trip for 130 students of Civil Engineering in the fourth semester on July 21 and 22. The students had the opportunity to learn about the construction of flexible and rigid pavements, major bridge structures, road over bridge, road underpasses, and the</li> </ul> | <ul style="list-style-type: none"> <li>• Arranging a second technical tour for 130 7th semester students to Mysuru-Bengaluru Expressway in the month of October or November.</li> <li>• Encouraging students to participate in internships, mini-projects, and major projects with NHAI in the field of highway engineering.</li> <li>• Identifying any thrust area of research in highway engineering and exploring potential partnerships with NHAI</li> <li>• Sending proposals to conduct capacity building programs for</li> </ul> |
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|  |  |  |  |  |  | <p>toll plaza of the expressway that is currently being built between Mysore and Bangalore.</p> <p>They have also visited the quality control labs, the crusher units, the hot mix plant, and the ready-mix plant facility.</p> <ul style="list-style-type: none"> <li>• A request for the DPR designs of NH 275 between Mysuru and Madikeri, which is planned to be upgraded to four lanes, is made to the Director (Project) NHAI. This will allow faculty and students to work on an important live project as part of the road safety auditing at</li> </ul> | <p>the working professionals from both NHAI and State government agencies in Road Safety Engineering.</p> <ul style="list-style-type: none"> <li>• Submitting a request for funding to the Ministry of Road Transport and Highways (MoRTH) to organise the capacity building programs for working engineers.</li> <li>• Exploring the potential for consulting work in the field of highway engineering for NHAI projects</li> <li>• Investigating the potential of research funding to establish collaborative research.</li> </ul> |
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|  |  |  |  |  |  | <p>the DPR stage. The Director has consented to the same and has assured to provide the required information.</p> <ul style="list-style-type: none"> <li>• NHAI's Director (Project) was requested to encourage our students by accepting their applications for internships, and this request was also accepted. It is planned to send a few UG students and a few PG students prior to the start of the odd semester during the vacation.</li> <li>• Dr. Nanjundaswamy has been invited to participate in a number of training programs held by Highway</li> </ul> |  |
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**JSS Mahavidyapeetha**

# JSS Science and Technology University

(Established Under JSS Science and Technology University Act No. 43 of 2013)



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MYSURU

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|  |  |  |  |  |  | <p>Research Station of Tamil Nadu state government in collaboration with IIT Madras because of the present MoU signed with NHAI and the certification he holds, which recognises him as an expert on road safety. He has trained about 400 highway engineers in Tamil Nadu this year alone during nine training programs he attended in Chennai.</p> <ul style="list-style-type: none"> <li>• Additionally, he frequently receives invitations to training sessions from Karnataka state government organisations like</li> </ul> |  |
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|  |  |  |  |  |  |  | PRAMC, KERS, SIUD,<br>and others. |  |
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|-----|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 9.  | <b>Karnatak<br/>a State<br/>Science<br/>and<br/>Technolog<br/>y<br/>Academy,<br/>Bengaluru</b> | Dr. A.M. Ramesh<br>Chief<br>Executive<br>Officer,<br>KSTA. | <ul style="list-style-type: none"> <li>- Inculcating scientific temper across civil society through science communication</li> <li>- Facilitating technology dissemination through Academic-Farm-Industry interface, with a focus on rural areas.</li> <li>- Fostering innovations and entrepreneurship for societal benefits</li> <li>- Organising conferences &amp; outreach programs</li> <li>- Capacity building in frontier areas of Science &amp; Technology</li> </ul> | <b>MoU</b><br><br>27/08/2020<br><br>3 years | Dean<br>(Research)                                                   | On-going | Virtual lecture has been delivered by Dr. Haraprasad N.<br><br>Science Day Celebration in association with KSTA has been planned and a proposal has been submitted. |  |
| 10. | <b>Bangalore<br/>Chamber<br/>of<br/>Industry<br/>and<br/>Commerc<br/>e, (BCIC)</b>             | Mr. T R Parasurama<br>n<br>President,<br>BCIC.             | <ul style="list-style-type: none"> <li>- To promote skilling among students, curricula, training and workshops</li> <li>- To promote entrepreneurship and innovation</li> </ul>                                                                                                                                                                                                                                                                                               | <b>MoU</b><br><br>03/02/2021<br><br>5 years | Dr Pradeep M.,<br>Placement<br>and<br>Training<br>Officer,<br>JSSSTU | On-going | BCIC conducted Student development programmes.<br><br>BCIC has been providing Career guidance to students                                                           |  |

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|     | Bengaluru                                    |                                         |                                                                                                                                                                                                                   |                                                                           |                                                                           |          | Three workshops have been conducted.                                                                                                                                                                                                                                                          |                                                                        |
| 11. | <b>Indian Rubber Institute (IRI) Kolkata</b> | Dr. R. Mukhopadhyay<br>Chairman<br>IRI. | <ul style="list-style-type: none"> <li>- JSSSTU to provide adequate space of 10000 sq ft land in the premises</li> <li>- To take permission from Local Authority for renovation, if any</li> <li>- Etc</li> </ul> | <b>Supplemental MoU</b><br>19/03/2016<br>to<br>18/02/2046<br><br>30 years | Prof. M P Chandresh,<br>Dept of Polymer Science and Technology,<br>JSSSTU | On-going | <p>A Centre of Excellence in rubber technology has been established to carry out academic programmes and research and training.</p> <p>The labs are on the way to being equipped.</p> <p>BVoc course was proposed in collaboration.</p> <p>One day online workshop on "Rubber Compounding</p> | Faculty members from PST regularly handle IRI classes for PG (Diplomo) |

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|  |  |  |  |  |  |  | Technology” was organized on 23/09/2022. |  |
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 43c67b4b0906f41420867ae JSS, Mysuru, PostCode: 570006,  
 Phone: 662065a974c1a626247, Id: 89f89c15c36a9252f5a1,  
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 TECHNOLOGY UNIVERSITY, IN  
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|     |                                                                                                                                                                          |                                          |                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |                                              |          |                         |                                         |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|----------|-------------------------|-----------------------------------------|
| 12. | <b>Graphic Era Deemed-to-be-University (GEU) Dehradun, Uttarakhand-248001</b><br><br><b>Ek Bharath Shrestha Bharat (EBSB) AICTE-MHRD, Government of India initiative</b> | Prof Amir Sheikh<br>Nodal Officer<br>GEU | ● GEU and JSS STU to organize seminars, workshops, training programs, student exchange programs, and other activities in the fields of culture, cuisine, art, literature, tourism, etc to showcase the rich heritage and culture, customs and traditions of either State for enabling people to understand and appreciate the diversity that is India, thus fostering a sense of common identity. | <b>MoU</b><br>signed on<br><b>25/07/2022</b> | Prof. C S Santhosh<br>Nodal Officer,<br>EBSB | On-going | Planning is in progress | Cultural team from JSS STU to visit GEU |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------|----------|-------------------------|-----------------------------------------|

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SERIAL NUMBER: 09073274205027, UIN: 300070/2015-15/7668248  
6497949099914209701, UIN: 300070/2015-15/7668248  
Phone: 662065a974c1a624247, UIN: 300070/2015-15/7668248  
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### Industry Institute Collaboration:

| Sl. No . | Name of the collaborating University/Institution | Name of the coordinator of the partnering university/ institute                          | Objectives of the MoU                                                                                                                                                                                                                                                                                                                                                                           | Mode of Collaboration with date of signature and period                                         | JSSSTU coordinator                                             | Status               | Activities carried out till now                                                                                                                                                                                                   | Future Plan |
|----------|--------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1.       | <b>Automotive Axles Ltd.(AAL), Mysuru</b>        | Dr. N. Muthukum ar, President and Wholetime Director, Automotive Axles Ltd.,(AAL) Mysuru | <ul style="list-style-type: none"> <li>- Automotive Axles Ltd., manufactures Axles Assemblies, Brakes and other auto components to heavy, medium and light commercial vehicles in India.</li> <li>- MoU to explore the areas of co-operation to benefit both</li> </ul> <p><b>Areas of co-operation from AAL</b></p> <ul style="list-style-type: none"> <li>- Workshops for students</li> </ul> | <p><b>MoU</b></p> <p>05/11/2016 to 05/11/2019.</p> <p>3 years</p> <p><b>(To be Renewed)</b></p> | Dr. Pradeep M. Placement and Training Officer, JSSSTU, Mysuru. | <b>To be Renewed</b> | <p>Internships were provided by Automotive Axles Ltd. for 2nd, 3rd and 4th year students during the MoU period.</p> <p>Though the MoU term has ended in 2019, Automotive Axles Ltd.has been recruiting students and they have</p> |             |

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| Sl. No. | Name of the collaborating University/Institution | Name of the coordinator of the partnering university/institute | Objectives of the MoU                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mode of Collaboration with date of signature and period | JSSSTU coordinator | Status | Activities carried out till now        | Future Plan |
|---------|--------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------|----------------------------------------|-------------|
|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- Teaching faculty development programmes</li> <li>- Internship and placements (I year to IV year exclusively for Mechanical and Industrial Production)</li> <li>- PhD scholarship support (for full-time candidates in the areas of Mechanical and Industrial Production Engineering)</li> </ul> <p><b>Support to AAL from JSSSTU</b></p> <ul style="list-style-type: none"> <li>- Executive Postgraduate courses</li> </ul> |                                                         |                    |        | been offering internships to students. |             |

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|---------|--------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------|---------------------------------|-------------|
|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- Other support - New strategies for betterment of company's interests</li> <li>- Provide full range of academic and infrastructure support available at the university</li> <li>- Work closely with the company to design a degree program that meets the needs of the industry</li> <li>- offer support to ensure a rewarding academic experience for working professionals in the industry</li> </ul> |                                                         |                    |        |                                 |             |

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|---------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 2.      | <b>Mercedes-Benz Research and Development India Pvt., Ltd. (MBRDI), Bengaluru.</b> | Mr Mahesh Medhekar, Vice President - human Resources, MBRDI, Bengaluru. | - MBRDI scholarship program for women in Mechanical and allied specializations named as "Mercedes in Mech" | <b>MoU</b><br>13/02/2017 to 31/12/2020<br><br>3 years<br><br><b>(to be renewed)</b> | Dr. Pradeep M. Placement and Training Officer, JSSSTU, Mysuru. | To be Renewed | Though the MoU term has ended, MBRDI has been providing scholarships to 10 girl students from the departments of Mechanical Engineering and Industrial Production. They are also recruiting students and they have been offering internships with stipend to students. |             |

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|---------|--------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.      | <b>Toyoda Gosei South India Pvt., Ltd., (TGSIN), Bidadi.</b> | Mr Bijay Krishna Shreeshta, Chairman and MD Toyoda Gosei South India Pvt., Ltd., Bidadi. | <ul style="list-style-type: none"> <li>- Development of exchange programs (faculty)</li> <li>- Academic quality enhancement</li> <li>- Carrying out students training and project</li> <li>- Consultancy services</li> <li>- Hands on training to executives of TGSIN</li> <li>- Teaching of elective subjects to PST students by TGSIN</li> </ul> | <b>MoU</b><br>18/01/2020 to 17/01/2023<br>3 years<br><b>(to be renewed)</b> | Dr. Roopa<br>Dept of Polymer Science and Technology, JSSSTU | Ongoing | Planned to regularly conduct workshops, student mentoring, student projects, student placement.<br><br>Planned to meet the HR manager for future action plans<br><br>A BE graduate (2022 batch) was placed in Toyoda. | In the meeting held on 4th April 2022, following plans were proposed:<br>1. To depute faculty to TGSIN for training<br>2. To identify students for internship during Sept 2022<br>3. To plan plant visit for third year students<br>4. To identify one or two teams to carry out project at TGSIN<br>5. To identify team from TGSIN (material testing or |

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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                  |                                                                |                       |                                                         |                    |        |                                 | characterization for their training/ exposure at PST)<br>6. Mr. Thej Kumar to share contact details of mould makers with Dr. GSA<br>7. To workout the possibility of joint research on biopolymer/ eco-friendly materials or fillers<br>8. To plan 2 days workshop during May - June |

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43c0fa40e091da1242093f7ae=Sokkalingam, PostalCode=570006  
Phone=+6622069574e41a62b08871dd8918f9c15c36e9252e3ca1a  
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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                  |                                                                |                       |                                                         |                    |        |                                 | 9. To visit for hiring final year students during Aug-Sept 2022<br>10. To send the list of 5 interested students from 3rd year to get mentored from TGSIN experts<br>11. Mr. Rahul Devang (M.Tech in PST candidate) carried out his industrial training/internship and the project work at TGSIN during 2021-22. |

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Phone=662d2c6a97e4c1a62b87f7dd89f89c15c36e9252e3ca1  
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| Sl. No | Name of the collaborating University/Institution | Name of the coordinator of the partnering university/institute | Objectives of the MoU                                                                                                                                                                                                                  | Mode of Collaboration with date of signature and period | JSSSTU coordinator                | Status                                                                            | Activities carried out till now                                                                                                                                                                                                              | Future Plan                                                   |
|--------|--------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
|        |                                                  |                                                                |                                                                                                                                                                                                                                        |                                                         |                                   |                                                                                   |                                                                                                                                                                                                                                              | 12. One or two teams from B.E. will be sent for project work. |
| 4.     | <b>INFLIBNET Centre, Gandhinagar</b>             | Prof J P Singh Joorel Director INFLIBNET Centre, Gandhinagar.  | <ul style="list-style-type: none"> <li>- Provide access to ETD hosting servers</li> <li>- Recommend t UGC to extend financial assistance for digitisation of these and dissertations</li> <li>- Shodhganga/Shodhganga othri</li> </ul> | <b>MoU</b><br>04/01/2019<br>- can be terminated anytime | Mr. Basappa (Librarian)<br>JSSSTU | PhD Theses need to be uploaded onto the INFLIBNET Shodhganga repository after the | <p>Access to URKUND software has been given to JSSSTU to check for plagiarism of research scholars.</p> <p>PhD thesis to be uploaded to the central repository.</p> <p>Access to ASCE Journals was given to AICTE approved institutions.</p> |                                                               |

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|----------|--------------------------------------------------|-----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------------------------------------------------------------------------------|---------------------------------|-------------|
|          |                                                  |                                                                 |                       |                                                         |                    | convocation.<br><br>Access to ASCE Journals was denied when applied as JSSSTU. |                                 |             |

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43c67a40809fdr41420957ae; S=Kannalaka, PostalCode=370006  
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|---------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 5.      | <b>Element 42 Management Solution Pvt. Ltd. Bengaluru</b> | Mr. Mahantesh Kumar<br>Director,<br>Element 42 Management Solution Pvt. Ltd.<br>Bengaluru. | <ul style="list-style-type: none"> <li>- Vendor for supply of Technology enabled certificates</li> <li>- Design services</li> <li>- Printing and supply services</li> <li>- Delivery of certificate</li> </ul> | <b>Rate Contract Agreement</b><br><br>21/01/2019<br><br>5 years | Mr. Abhinandan<br>(Assistant Registrar, Examinations)<br>JSS STU | On-going | Every year before the University Convocation, UG and PG student data with photos will be provided to Element 42 Management Solution Pvt. Ltd. Once the soft copies sent by them are verified in the University, hard copies of the final degree certificates are received. | Planning a meeting with officials of Element 42 for an extension of the MOU |

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|----------|---------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.       | <b>Valles Marineris International Pvt. Ltd. Nagpur.</b> | Dr. Jayakumar Venkatesan, Director and CEO, Valles Marineris International Pvt. Ltd. Nagpur. | <ul style="list-style-type: none"> <li>- Partner and collaborate</li> <li>- Provide framework for collaborative activities and review areas of common interest - space technologies, education and science</li> <li>- Facilitate interchange of information, technology and personnel in areas of mutual interest</li> <li>- Nominate relevant points of contact</li> <li>- Facilitate R&amp;D in space technologies</li> </ul> | <p><b>MoU</b></p> <p>21/02/2019</p> <p>5 years</p>      | Dr. Sudarshan Patil<br>Kulkarni<br>Dept of ECE<br>JSSSTU | On-going | <p>One workshop has been conducted in 2020.</p> <p>A Project proposal to design, build and launch a nanosatellite for medical application has been approved by the board of management of JSS in March 2022.</p> <p>An online workshop on Nanosatellites was conducted between 9th</p> | <p>Preliminary design - Completed upto 80%. Specification details of all subsystems and modules finalized up to lowest level.</p> <p>Complete procurement Process -Dec 2022; Implementation of Engineering model to begin.</p> <p>Establishment of JNANAM</p> |

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# JSS Mahavidyapeetha

## JSS Science and Technology University

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|         |                                                  |                                                                |                       |                                                         |                    |        | <p>May to 12th May 2022.</p> <p>Six teams have been formed with members of all the four institutions: Mechanical and Thermal Team, Sensor and Instrumentation Team, Power Systems, Control Systems, Communication and Software.</p> | <p>Lab - Jan 2023: An exclusive lab place is being identified in JSSSTU to establish laboratory for students and faculty to work on design and implementation of satellite.</p> <p>Complete the building of Engineering Model; Work on flight model - March 2023</p> |

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|         |                                                  |                                                                |                       |                                                         |                    |        | <p>Quotation has been received from Valles Marineris for Rs 80 lakh, for various subsystems and components procurement.</p> <p>Books and Literature on Cubesat has been provided to all team members of JSSSTU, JSSATEN, JSSATEB, JSSAHER and Domain Team Meetings have been held.</p> | <p>Complete the Flight Model - April 2023</p> <p>Testing and delivery of Nanosat to ISRO - May 2023</p> <p>Publish reports, articles in Journal - June 2022 – Dec 2023</p> <p>Propose new project - January 2024: JNANAM – 2 cubesat; based on the</p> |

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|         |                                                  |                                                                |                       |                                                         |                    |        | <p>Online course offered by BRICS going on from 4th Oct to 3rd week of November 2022; classes are conducted twice in a week.</p> <p>Team members from JNANAM are attending regularly and course material is being uploaded in their group portal.</p> <p>Design specifications completed 80%</p> | knowledge and experience gained by JNANAM -1 |

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|         |                                                  |                                                                |                       |                                                         |                    |        | <p>Team meetings happening at regular interval</p> <p>JNANAM Concept note with specification details prepared.</p> <p>Taking opinion from experts in ISRO about technical feasibility and pricing.</p> <p>Domain Team Meetings held :</p> <p>Sensor Team</p> |             |

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|         |                                                  |                                                                |                       |                                                         |                    |        | (June 7, 2022)<br>Meeting of Dr<br>Jayakumar (Valles<br>Marineris) with<br>JSSSTU student team<br>(July 4, 2022)<br>Power systems Team<br>(July 21, 2022)<br>Communication<br>Systems Team<br>(Aug 5, 2022)<br>(Oct 07, 2022) |             |

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| 7.     | <b>Asian Polymers, Mandya.</b>                                  | Mr. Tom Mathew, Proprietor, Asian Polymers, Mandya.            | <ul style="list-style-type: none"> <li>- Development of new product, modification of existing polymers</li> <li>- Provide opportunity to students, faculty and organizational professionals</li> </ul> | <b>MoU</b><br>23/03/2019 to 22/03/2021<br>2 years<br>(to be renewed) | Dr. Pradeepa K.G. Dept of Polymer Science and Technology, JSSSTU | To be renewed | Consultancy works; Testing and characterization works related to research materials.     | Contacted Mr. Tom Mathew Proprietor, Asian Polymers, over phone. We will have a meeting in a short duration to decide renewal of MOU and future plans for mutual benefit. |
| 8.     | <b>M/s. Hollingsworth &amp; Vose Advanced Materials (India)</b> | Mr Raghu Ram Akella Managing Director, Hollingsworth &         | - Testing and evaluation of samples and materials at facilities of JSSSTU, prospective collaborative research projects.                                                                                | <b>Mutual Agreement for the protection of confidential</b>           | Dr. Kameshwari Devi Dept of Polymer Science and                  | Ongoing       | Consultancy works; Members from industry were resource persons for two of the workshops; | Industrial Training and visit for BE final year students is planned in August-Sept 2022 as per the communication received                                                 |

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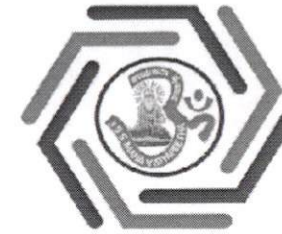


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|          | <b>Private Limited, Nanjungud, Mysuru.</b>       | Vose Advanced Materials (India) Private Limited, Nanjungud      |                       | <b>information</b><br><br>27/03/2019<br><br>5 years     | Technology, JSSSTU |        | Support during the conference and served as reviewer.<br>H & V is mainly using SEM and XRD facilities of the department.<br>A follow up meeting was held on 5th April 2022 regarding future plans.<br><br>Three of the pre-final year BE students underwent industrial training at H and V during August 2022. | from industry on 27th July 2022. |

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|          |                                                  |                                                                     |                                                                                                                                                                                                                                                                                        |                                                                        |                                                             |          | One of the H&V industrial expert is in BOE (PST) panel.                                                                                                               |             |
| 9.       | <b>Tata Consultancy Services Ltd. Mumbai</b>     | Mr. Chandra Koduru and Mr. G. Balanarayan<br>TCS.<br>Mr. B B Shetty | <ul style="list-style-type: none"> <li>- TCS to design and develop Course contents and curriculum of the TCS designed course(s)</li> <li>- JSSSTU to select core topics and faculty members to teach the selected topics.</li> <li>- Workshops for students</li> <li>- FDPs</li> </ul> | <b>MoU</b><br><br>9/04/2019 to 28/04/2024<br><br>5 years<br>05/04/2022 | Dr Pradeep M.,<br>Placement and Training Officer,<br>JSSSTU | On going | CSBS course is on-going.<br><br>Organised FDPs and SDPs for students in association with TCS.<br><br>Received sponsorship for Jayciana and Tech fests prior to COVID. |             |

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|--------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|        |                                                       | Head-Regional HR TCS.                                              | <ul style="list-style-type: none"> <li>- Best student project awards</li> <li>- Internship</li> <li>- Elective on Cyber Security for CSE students</li> </ul>                                                                                                                    |                                                         |                                                   |          |                                                                                                                                                                             |             |
| 10.    | <b>Global Cyber Security Response Team, Bangalore</b> | Ms. Shubhanga Sunil Global Cyber Security Response Team, Bangalore | <ul style="list-style-type: none"> <li>- To partner and collaborate</li> <li>- Formulate strategies for safeguarding students and stakeholders from cyber crime</li> <li>- Skill development in cyberspace technologies through workshops/ FDPs/ trainings/ Seminars</li> </ul> | <b>MoU</b><br>17/11/2020<br>3 years                     | Dr Chennamma Dept of Computer Applications JSSSTU | On-going | Training programmes for students and FDP have been planned.<br><br>A proposal has been submitted for a Certification Course on Cyber Security<br><br>No response from GCSRT |             |

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|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- Facilitate interchange of information, technology and personnel</li> <li>- R&amp;D in the areas of common interest</li> </ul> |                                                         |                    |        | Conducted one day workshop on “Cyber Security: Challenges and Opportunities” held at JSS STU on 26/12/2023 |             |

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| 11.    | <b>Schevaran - Cleanfix Academy (SCA) of Cleaning Sciences Pvt., Ltd., India</b> | Mr Sam Cherian<br>Managing Director<br>SCA,<br>Mysuru.         | <ul style="list-style-type: none"> <li>- The courses offered under this agreement will be owned, designed and executed by SCA - Academy for Workplace Excellence (AWE)</li> <li>- Create courses and conduct training programs in facility management as its intellectual standards &amp; legal compliance in facility management</li> <li>• Diploma and advanced diploma in facility management property for entry level students</li> </ul> | <b>Joint-Implementation Agreement</b><br><br>05/03/2021<br><br>3 years | Mr. Rajendra Prasad<br>Dept of CTM<br>JSSSTU | Awaiting for the Date to launch courses. | Proposal submitted to the management for Skill. Development Training Programs in Facility Management, Certificate course in Healthcare Facility Management, Certificate Course in Engineering Facility Management and Certificate course in housekeeping and cleaning sciences in Facility Management. |             |

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|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- Training programs and short-term courses created shall be geared for knowledge and skill transfer, job-oriented and designed to improve efficiency and earning capacity of the student.</li> <li>- Academic training programs include               <ul style="list-style-type: none"> <li>• certificate courses on</li> <li>• Healthcare facility management</li> <li>• Engineering Services-facility management</li> </ul> </li> </ul> |                                                         |                    |        |                                 |             |

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|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>• housekeeping &amp; cleaning sciences- facility management</li> <li>• other courses under consideration for introduction</li> <li>• sustainability &amp; wellness in facility management</li> <li>• next generation facility management</li> <li>• pest control in facility management</li> <li>• safety and security in facility management</li> </ul> |                                                         |                    |          |                                     |                         |
| 12.     | <b>Nokia Solutions and</b>                       | Mr. Ponni K                                                    | - Nokia experts on BoS to shape curriculum                                                                                                                                                                                                                                                                                                                                                      | <b>MoU</b><br>21/04/2021                                | Dr. Yashwanth      | On-going | Online activity has been conducted. | Cloud Security workshop |

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|        | <b>Networks India Private Limited.</b>           | Nokia Bangalore University Collaboration Lead                  | <ul style="list-style-type: none"> <li>- Deliver lectures to students</li> <li>- Mentor student projects</li> <li>- Chair technical symposia</li> <li>- Provide internships</li> <li>- JSSSTU to align course curriculum jointly</li> <li>- Define criteria to set students to participate in Nokia program</li> <li>- Define methodology evaluation and criteria for elective course offered by Nokia</li> </ul> | 3 years                                                 | Dept of ECE<br>JSSSTU |        | <p>Proposed to offer electives.<br/>Planning to conduct online/offline FDP and 2 technical talks.<br/>Planning Industrial visit to the company.</p> <p>Events organized:</p> <ul style="list-style-type: none"> <li>- Nokia Collegiate Wilderness coding 2022</li> <li>- Nokia Webinar on 5G</li> <li>- Nokia Webinar on</li> </ul> | <p>is planned in the month of August.</p> <ul style="list-style-type: none"> <li>- SON – AI/ML</li> <li>- AI/ML</li> <li>- Enterprise 5G</li> </ul> <p>Campus to Corporate workshop for students FDP in the month of November or December in connection with Diamond Jubilee celebration</p> <p>Annual event, Nokia</p> |

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|         |                                                  |                                                                |                       |                                                         |                    |        | Backhaul Transport<br>- Nokia Webinar on<br>Network Slicing<br>- Python Workshop<br>- Under the guidance of Nokia, 9 students are engaged in two separate projects.<br><br>Approximately 10 to 15 students have received | University Day @Nokia on 7th Nov 2022<br><br>Campus to Corporate workshop for students in the month of December or January |

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|---------|--------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.     | <b>Anthem Biosciences Pvt Ltd. Bengaluru</b>     | Ajay Bharadwaj<br>CEO<br>Anthem Biosciences Pvt Ltd.<br>Bengaluru | <ul style="list-style-type: none"> <li>- Partner, collaborate and interact</li> <li>- Curriculum designing</li> <li>- Training programs</li> <li>- Industrial visit</li> <li>- Internship and research project work</li> <li>- PG Diploma programme</li> <li>- Skill Development Programme</li> </ul> | <b>MoU</b><br><br>19/07/2021<br><br>3 years             | Dr. Mallu<br>Dept of Chemistry<br>JSSSTU | On-going | internship opportunity, with approximately 8 being converted to full time positions.<br><br>Students are provided facilities in their labs to conduct projects and handle their instruments. 10 students were offered internships and 8 students were placed. Analytical Chemistry has been included in | Many more lecture series to be held for M.Sc Chemistry and M.Sc Analytical Chemistry students from industry experts in future.<br><br>One semester hands on training programme for |

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|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- Guest lectures</li> <li>- Placement to students</li> </ul> |                                                         |                    |        | <p>the curriculum for MSc students from the next academic year in which some lectures will be delivered by industry persons.</p> <p>Curriculum Designing As a BOS member for M.Sc Chemistry and M.Sc Analytical Chemistry Training Programme</p> <p>One semester hands on training programme for M.Sc Analytical Chemistry students from</p> | <p>M.Sc Analytical Chemistry students from next academic year.</p> |

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|          |                                                  |                                                                 |                       |                                                         |                    |        | <p>next academic year.<br/>Industrial Visit<br/>11 th June 2022.<br/>Internship and research project work for M.Sc Chemistry students have been provided.</p> <p>A Guest lecture by Dr. G Govinda Rajulu, Deputy General Manager, Anthem Biosciemnces Pvt. Ltd, Bengaluru was organized on 30 th May 2022.</p> |             |

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|         |                                                  |                                                                |                       |                                                         |                    |        | Placements to students have been provided.<br><br>1. Internship – 6 students every year<br>2. Placement – 18 students till date<br>3. Industrial visit – Recent visit on 11 th June, 2022 for students<br>4. Research activities<br>5. Hands on instrument training for 3 faculty and 1 research scholar on 29 th September - 1 st October, 2022. |             |

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|         |                                                  |                                                                |                       |                                                         |                    |        | 6. Providing Chemicals provision for carrying out research work.<br>7. 4 Scientists have registered for Ph.D in our University as a part of MOU.<br>8. Special lecture series from Scientists.<br>9. BOS members for M.Sc Chemistry and M.Sc, Analytical Chemistry in curriculum design. |             |

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|---------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|----------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 14.     | <b>JANE Aerospace Pvt Ltd., Bangalore</b>        | Ritesh Jawali<br>Head of Operations<br>Jane Aerospace Pvt. Ltd., Bangalore<br><br>The coordinator is currently not with the company | <ul style="list-style-type: none"> <li>- Certificate program</li> <li>- Create courses and programs for prefinal year and final year students with focus on Drone technology</li> <li>- Short term courses</li> <li>- Planned infrastructure</li> <li>- Constitute a small working group or task force</li> <li>- Setup a remote pilot training institute</li> <li>- Set up a training centre for Advanced drone plot training course</li> <li>- Assist in placements</li> </ul> | MoU<br><br>30/11/2021<br><br>5 years                    | Mr. R. Shashidhar<br>Dept of ECE<br>JSSSTU | On-going | None<br><br><b>JANE Aerospace Pvt Ltd has merged with Bird360</b> | DGCA registration portal is not yet open. Hence waiting for the portal to get activated. |

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|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- JMA to provide training drones</li> <li>- JMA to assist in placements for those who have completed Advanced drone plot training course</li> <li>- To setup skill development programs, FDP, Industry-Academia collaboration, R&amp;D, Seminars, exhibitions and publications.</li> </ul> |                                                         |                    |        |                                 |             |

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| 15.     | <b>Bosch Global Software Technologies</b>        | Ms. Padmaja A R., Senior Vice President Mobility Solutions - Cross Computing Division | <ul style="list-style-type: none"> <li>- University Connect.</li> <li>- Cyber security Elective launch.</li> </ul> | <b>MoU 12/03/2022</b>                                   | Dr. Pradeep M, PTO | On-going | Elective on Cyber Security was launched |             |

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| 16.     | <b>Chromatogen Analytical Solutions</b>          | Dr. Shankar, Chief Scientific Advisor and Mrs. Manasa G.P, Managing Director, Chromatogen Analytical Solutions (opc) Pvt Ltd, Mysuru | Hands-on training to MSc students including GC, NMR, etc.<br><br>Internships and Placements | MoU 01/04/2022                                          | Dr. Mallu P        | On-going | 1. Internship – 5 students every year<br>2. Placement – 04 students till date<br>3. Industrial visit<br>4. Research activities<br>5. QC analysis for Hand Sanitizer prepared by Department of Chemistry, JSSSTU, Mysuru. |             |

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| 17.     | <b>ChanRe Rheumatology and Immunology Centre and Research</b> | Dr. Chandrashekhara S., Rheumatologist, (CRICR), Bengaluru. Founder and Research & Development, Director of CRICR. | <ul style="list-style-type: none"> <li>- to foster research collaboration between JSS STU and ChanRe</li> <li>- set the ground for longer-term university-industry partnerships in the possible avenues,</li> <li>- strengthen the innovative capacities to advance industry-driven research &amp; innovation</li> <li>- provide university access to industrial environments for applied and problem-based research activities.</li> </ul> | <b>MoU<br/>08 June 2022</b>                             | Dr. Mallikarjuna Swamy, Dept of E&I | On-going | Invited talks by Dr. Chandrashekhara and Dr. Renuka P. were organised on 08/06/2022. Projects have been assigned to students.<br><br>1. 3 PhD students collaborated for research work<br>2. Published research papers in collaboration (4 journals and 2 book chapters) | 1. Collaborative R&D projects<br>2. Internship for students<br>3. Publications/patents in collaboration<br><br>Future plans<br>Invited talks and seminars<br>Joint R&D work<br>joint publications |

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|        |                                                  |                                                                |                       |                                                         |                    |        | <p>3. Organized Dr.Chandrashekhar S and Dr Renuka delivered talks to students<br/>On 8 th June 2022</p> <ul style="list-style-type: none"> <li>• Patents filed and published in collaborations 2022 (2 numbers)</li> <li>• Design of Medical device patent application registered and under process 2023 (2 numbers)</li> </ul> |             |

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|          |                                                  |                                                                 |                       |                                                         |                    |        | <ul style="list-style-type: none"> <li>Joint publication 2022-23 (1 journal, 2 book chapters)</li> </ul> |             |

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|---------|-------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18.     | <b>Bhoruka Extrusions Pvt. Ltd., Mysuru</b>           | Mr. Rajat Agarwal.<br>Director,<br>Bhoruka Extrusions Pvt. Ltd.       | - To provide internships, skill development, industry visit, live projects, placement and related services to the student community.                        | <b>MoU</b><br><b>25 July 2022</b>                                                  | Dr. Ravishankar R.,<br>Department of Mechanical Engineering | On-going | Planning is in progress                                                                                     |                                                                                                                                                            |
| 19.     | <b>M/s Ujwal Industrial Corporation (UIC), Mysore</b> | N. Akshay,<br>Proprietor,<br>M/s Ujwal Industrial Corporation, Mysore | - To set up an advanced polymeric material synthesis lab (APMS lab) at the department of PST, JSS STU.<br>- Purpose: To upskill the graduating students and | <b>MOU</b><br><b>Signed on 16/01/2020</b><br><b>Valid upto 15 th January 2023.</b> | Dr. A B Hemavathi                                           | On-going | 1. The Department of PST and UIC have completed about 7 UG industrial projects and 2 PG projects till date. | To extend the required facilities to initiate the MOU related work (Lab setup) by UIC, a request letter has been mailed to the Director on 5th April 2022. |

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## JSS Science and Technology University

(Established Under JSS Science and Technology University Act No. 43 of 2013)



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| Sl. No | Name of the collaborating University/Institution | Name of the coordinator of the partnering university/institute | Objectives of the MoU                                                                                                                                                                                                                                                                                                                                                                          | Mode of Collaboration with date of signature and period | JSSSTU coordinator | Status | Activities carried out till now                                                                                                                                                                                                                                 | Future Plan                 |
|--------|--------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|        |                                                  |                                                                | make them industry ready.<br>To provide a center for ideation, incubation, development and transfer of technology. Students and academicians get hands-on experience on a semi-pilot to pilot scale synthesis operations that can be closely related to the actual manufacturing setup in the industry.<br>- To provide practical training to PST Students at M/s Ujwal Industrial Corporation | (to be renewed)                                         |                    |        | 2. A follow up meeting was held on 31-03-2022 with the UIC proprietor.<br><br>3. Director (Engineering) and Resident Engineer, JSSSTU, Mysuru, visited the department on 23/6/2022 to inspect the space planned for MOU related lab setup. Further instructions | The MoU duration completed. |

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|---------|--------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|--------|----------------------------------|-------------|
|         |                                                  |                                                                | <ul style="list-style-type: none"> <li>- Joint guidance of student projects/thesis in APMS Lab and other areas of interest at Dept. of PST by M/s Ujwal Industrial Corporation on mutually agreeable terms.</li> <li>- Provide employment opportunities for students &amp; researchers.</li> <li>- The areas of cooperation can be extended through mutual consent.</li> </ul> |                                                         |                    |        | are awaited to proceed forward . |             |

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| Sl. No. | Name of the collaborating University/Institution                  | Name of the coordinator of the partnering university/institute | Objectives of the MoU                                                                                                                                                                                                                                                                                                                                 | Mode of Collaboration with date of signature and period | JSSSTU coordinator                                                    | Status   | Activities carried out till now                                                                                                                                                                                                                                                                                                                   | Future Plan                                                                                                                                                                                                                                                                      |
|---------|-------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20.     | <b>Government Tool Room &amp; Training Centre (GTTC), Mysuru.</b> | Mr. Radhakrishna. Deputy General Manager & Principal GTTC      | <ul style="list-style-type: none"> <li>- Expose both UG and PG students to technological up-gradation, innovation and competitiveness of an industry through internship and training.</li> <li>- To create a platform for the students to get placements.</li> <li>- Benefit research scholars and faculty members in research activities.</li> </ul> | <b>MOU Signed on 26/08/2022</b>                         | Dr. V.Ramesh, Head, Department of Industrial & Production Engineering | On-going | <ol style="list-style-type: none"> <li>1. Training on CNC and CMM was conducted for the students of V Semester I &amp; P. A total of 63 students participated in the training from 19th September 2022 to 18th October 2022.</li> <li>2. Dr. Savitha M Chief Co-ordinator was trained on CNC and CMM under Faculty training programme.</li> </ol> | <ol style="list-style-type: none"> <li>1. CNC Training for higher semester students of Mechanical Engineering and Industrial and Production Engineering during vacation</li> <li>2. Internship training during vacation</li> <li>3. Guest lectures by GTTC personnel.</li> </ol> |

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|--------|--------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|        |                                                  |                                                                |                                                                                                                                                                                                                       |                                                         |                                       |          | 3. Sixth semester students were given Hands-On training on the use of CNC Lathe, CNC Milling Machine and Computerised Co-ordinate Measuring Machine. |             |
| 21.    | Dassault Systemes India Pvt Ltd                  | Mr Deepak, Managing Director, M/s. Dassault                    | <ul style="list-style-type: none"> <li>- To setup a 3D experience centre for electric vehicles</li> <li>- To provide technology support and prepare the workforce of the future, specific to the future of</li> </ul> | <b>MoA signed on 28/09/2022</b>                         | Dr Pradeep M., Placement and Training | On-going |                                                                                                                                                      |             |

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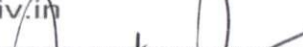
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|---------|--------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|----------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                                  | Systemes India Pvt Ltd.<br><br>Mr.Praveen                                  | mobility, including electric vehicles as well as hydrogen mobility in India                                                                                                                                                                                               |                                                         | Officer, JSSSTU                                       |          |                                                                                 |                                                                                                                                                                  |
| 22.     | Edunet Foundation                                | Aditya M Chikkavenkataiah, Business Development Manager, Edunet Foundation | <ul style="list-style-type: none"> <li>- To skill pre-final and final year female students creating pathways to industry careers through support for job/internship opportunities.</li> <li>- To train students in the areas of Artificial Intelligence, Cloud</li> </ul> | <b>MoU Signed on 22/12/2022</b>                         | Dr Pradeep M., Placement and Training Officer, JSSSTU | On-going | Registration of students to participate in IBM SkillsBuild Technical Bootcamps. | Students will be provided training in the areas of Artificial Intelligence, Front-end Development, Data Analytics, and Cyber Security in the month of June 2023. |

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|--------|--------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|        |                                                  |                                                                | Computing and Full stack Web Development.<br>- To scale up the impact by training the faculty members and helping them enhance the institution's technical capacity.                             |                                                         |                    |          |                                                                                                                                                                                                |             |
| 23.    | UD Trucks India Pvt Ltd. Bengaluru               | Paul Raj Edwin, Managing Director and Poornima Swaminathan     | - To impart basic operational and technical skill training related to the cut-section model to the students and academicians of JSSSTU<br>- To provide remedial actions for any material defect. | <b>MoU signed on 31/03/2023</b>                         | Dr. Pradeep M, PTO | On-going | As part of the CSR initiative the company has installed the cut-section driveline in the Department of Mechanical Engineering. This Cut section model, has a fully functional Engine, gearbox, |             |

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|---------|--------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|--------------------|----------|------------------------------------------------------------------------------------------------------|-------------|
|         |                                                                          |                                                                |                                             |                                                                                      |                    |          | transmission unit etc., which is being used for live vehicle demonstration and experimental purpose. |             |
| 24.     | <b>Visteon Technical and Services Centre Private Limited, Tamil Nadu</b> | Sivakumar Songappan Senior Director                            | Non disclosure of confidential information. | <b>MUTUAL NONDISCLOSURE AGREEMENT between JSS Technical Institutions and Visteon</b> | Dr. Pradeep M, PTO | On-going | -                                                                                                    | -           |

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|--------|--------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------|----------|--------------------------------------------------------------------------------------|------------------------------------------------------------|
| 25.    | <b>Visteon Technical and Services Centre Private Limited, Tamil Nadu</b> | Sivakumar Songappan Senior Director                            | To foster collaboration between the two institutions to promote industrial and academic interaction to help enhance the pool of student talent.<br><br>To provide access to the facilities, faculty, staff, teaching content, classrooms, | <b>MoU 12/12/2022 2 years</b>                           | Dr. Pradeep M, PTO | On-going | Recruitment of students from the Department of Mechanical Engineering is in progress | Planned to submit a proposal to offer Industrial elective. |

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|--------|--------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|        |                                                  |                                                                | library facilities, computer and communication facilities, stationery and other materials as may be required for the various programs to be offered.                                                                                  |                                                         |                                   |          |                                                                                                                              |                                                                                                                             |
| 26.    | <b>LOGISYS</b>                                   | H.N. Ramesh, Proprieter LOGISYS Bengaluru                      | <ul style="list-style-type: none"> <li>- Implementation of Examination Management System</li> <li>- Implementation of E-Governance in examination related activities</li> <li>- To carry on convocation related activities</li> </ul> | 30/01/2023<br>4 years                                   | Controller of Examination JSS STU | On-going | <p>Examination Management System has been implemented for the first year B.E. and BCA.</p> <p>Data from 2016 onwards are</p> | The implementation of Examination Management System will be extended to the remaining programs. All the data related to the |

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|---------|--------------------------------------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------|--------------------|--------|-----------------------------------|------------------------------------------------------------------|
|         |                                                  |                                                                |                       |                                                         |                    |        | imported and work is in progress. | University starting from 2016 will be available in a few months. |

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### *Reports of events conducted*

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## JSS Science and Technology University, Mysuru

**Report on activities conducted /planned / with Karnataka State Council For Science And Technology (KSCST) as a part of Memorandum of Understanding between JSS STU and KSCST, Bengaluru.**

| Sl. No | Activities Conducted / planned                            | Date       | Remarks                                                                                                                                                                          | Dates of Communication | Remarks |
|--------|-----------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|
| 01     | MoU Signing Ceremony between JSS STU and KSCST, Bengaluru | 18.11.2021 | MoU Signing Ceremony between JSS STU and KSCST, Bengaluru was held in the presence of University authorities and KSCST officers . University planned to work on the area of IPR. | 23.06.2021             |         |
| 02     | Constitution of Advisory and coordination committee       | 03.02.2022 | The advisory committee and coordination committee for patent information centre (PIC) was made in joint collaboration between JSS STU and KSCST                                  | 11.01.2022             |         |
| 03     | Invited Talk on IPR and Patent                            | 14.01.2022 | The invited talk on Intellectual Property Tight (IPR) and Patents was organized in virtual mode to provide insights on the process followed in IPR and Patent filing.            | 06.01.2022             |         |
| 04     | Awareness Program on IPR                                  | 31.01.2022 | IPR Awareness Program was held in association with IIC-JSS STU by virtual mode.                                                                                                  | 14.01.2022             |         |
| 05     | Workshop on IPR                                           | 24.01.2023 | Workshop on Intellectual Property Tight (IPR) conducted by the Dept. of Computer Applications through virtual mode.                                                              | 13.01.2023             |         |

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| 06 | Two Day Faculty Development Programme On "IP Ecosystem in Academics - Perspectives and Impact" Jointly Organized by IQAC, Office of Dean Research, IIC, JSS STU in association with Karnataka State Council For Science And Technology | 17-18 October 2023 | The Two-day Faculty Development Program On "IP Ecosystem in Academics - Perspectives and Impact" Jointly Organized by IQAC, Office of Dean Research, IIC, JSS STU in association with Karnataka State Council For Science And Technology was held at CS/IS Seminar Hall, Golden Jubilee Bhavan. | 17.04.2023<br>15.06.2023 |  |
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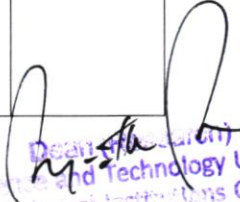
## JSS Science and Technology University, Mysuru

### Report on activities conducted /planned / with CSIR-CFTRI as a part of Memorandum of Understanding between JSS STU and CSIR - CFTRI, Mysuru.

| Sl. No | Activities Conducted / planned                                   | Date       | Remarks                                                                                                                                                                                                                                                                                                    | Dates of Communication | Remarks |
|--------|------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|
| 01     | MoU Signing Ceremony between JSS STU and CSIR-CFTRI,             | 02.01.2019 | MoU Signing Ceremony between JSS STU and CFTRI, Mysuru was held in the presence of University authorities and CSIR-CFTRI, Mysuru. University planned to work on the area of HR, Skill Development Programs and Advanced Research.                                                                          | 28.12.2018             |         |
| 02     | Presentation and Discussion by Team JSS STU and CSIR-CFTRI       | 27.03.2019 | The presentation were made by both team CSIR-CFTRI and Team JSS STU                                                                                                                                                                                                                                        | 18.03.2019             |         |
| 03     | Third Interactive Meeting on Multi-Institutional Network Project | 25.06.2020 | Third Interactive Meeting on Multi-Institutional Network Project among JSS STU, JSS-AHER and CSIR-CFTRI was held at UNU Hall, CSIR-CFTRI.<br><br>Title of Project: Development of AI derived Technologies for Personalized Diet and Drug management for Type 2 Diabetes for the Diverse Indian Populations | 08.01.2020             |         |
| 04     | Meeting on the Collaborative Project                             | 22.09.2021 | A collaborative meeting on data collection, budget requirements was held on 22.09.2021<br><br>Signature Not Verified                                                                                                                                                                                       | 20. 09.2021            |         |

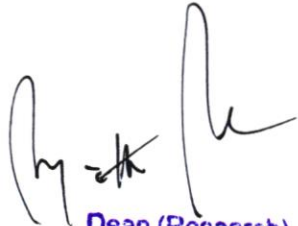
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|----|-------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
|    |                                                                         |            | Various biochemical parameters and various AI based algorithms with food habits and other socio economic indicators was discussed.                                      |            |  |
| 05 | Interactive Meeting on timelines for completing the project objectives. | 07.08.2023 | Challenges in the execution of the project, timelines for completing the objectives and collaborative projects workshops / conferences within the theme were discussed. | 01.08.2023 |  |

  
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## A Report on MOU Activities with JSSAHER

| Sl. No | Activities Conducted                            | Date                      | Remarks                                                                                                                                                                                                                                                                                                                                                                                        | Dates of Communication                                                         | Remarks                                |
|--------|-------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------|
| 1      | Joint Publication Book chapter                  | Nov 2018                  | Mallikarjunaswamy M S, Rajesh Raman, Mallikarjun S Holi and Sujana Theja J S, Detection of Menisci Tears in Sports Injured and Pathological Knee Joint using Image Processing Techniques, in book series Lecture Notes in Computational Vision and Biomechanics, Vol.28, Springer Cham 2018, pp.528-541(DOI:10.1007/978-3-319-71767-8_46, ISBN: 978-3-319-71767-8).                            | Research work carried in collaboration Presented in the conference in Nov 2017 | Springer book chapter in collaboration |
| 2      | Joint publication Journal                       | 2019                      | Mallikarjunaswamy M S, Mallikarjun S Holi, Rajesh Raman and Sujana Theja J S, Visualization of Cartilage from Knee Joint MRI and Quantitative Assessment to Study the Effect of Age, Gender and BMI in Progressive OA, Current Medical Imaging, Vol. 15(6), 2019, pp: 565-572 (ISSN: 1875-6603, DOI: 10.2174/1573405614666181018123251).(indexed in PubMed, NIH, USA). Q3 IF:1.3               | Research work carried in collaboration<br><br>Communicated in 2018             | Journal published in collaboration     |
| 3      | Journal published in collaboration Book chapter | 2020                      | Mallikarjunaswamy M S, Mallikarjun S Holi, Rajesh Raman and Sujana Theja J S, Accurate Techniques of Thickness and Volume Measurement of Cartilage from Knee Joint MRI using Semiautomatic Segmentation Methods, in book series New Trends in Computational Vision and Bio Inspired Computing, Springer Cham, 2020, pp.1017-1025(DOI: 10.1007/978-3-030-41862-5_103, ISBN: 978-3-030-41862-5). | Research work carried in collaboration<br><br>Communicated in 2018             | Springer book chapter in collaboration |
| 4      | Journal published in collaboration Journal      | 2021                      | Mallikarjunaswamy M S, Mallikarjun S Holi, Rajesh Raman and Sujana Theja J S, Visualization of Meniscus from Knee Joint MRI and Assessment of its Size Differences due to Age, Gender and BMI, International Journal of Bioinformatics Research and Applications, Vol.17(3), 2021, pp:275-287 (DOI:10.1504/IJBRA.2021.117171). Q4, IF:0.7                                                      | Research work carried in collaboration<br><br>Communicated in 2020             | Journal published in collaboration     |
| 5      | MEDHA 2022                                      | 29 <sup>th</sup> May 2022 | E&I Students have won Compact Design Award, MEDHA2022 (Medical Device Hackathon), Harish Kulkarni & Amith 6 <sup>th</sup> students won the award for their design idea, at JSSAHER and IITBombay. University authorities congratulated faculty and students.                                                                                                                                   | Students participated in the preliminary rounds in the month of May            | Certificates were issued to students   |
| 6      | Patent                                          | 29.12.2023                | A system of imaging an object and method thereof, Dr. DeepikaYadav, Dr. Sunil Kumar D, Dr. Mallikarjunaswamy M S, Dr. Vanishri Arun, Patent application no.: 202341089879 Filing date: Applicant: JSS Medical College, Mysuru, JSS Academy of Higher Education & Research                                                                                                                      | Pre-search done August 2023                                                    | Patent files                           |

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**Dr. Mallikarjunaswamy M.S.**  
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## A Report on MOU Activities with ESPAR,USA

JSS Science and Technology University (JSSSTU), SJCE Mysore, signed a Memorandum of Understanding (MoU) with ESPAR Consulting, USA.



The MoU was signed by **Dr. S. A. Dhanaraj**, Registrar of JSS STU and **Mr. Nagendra Sanjeeva** Founding member and Technology Advisor, ESPAR, USA on **22.03.2022**.



**Mr. Nagendra Sanjeeva** is a proud alumni of Department of Electronics and Instrumentation (E&I). He graduated in the year 1992. He served in many leadership roles in leading companies such as Thomson Reuters, Citibank, and MasterCard at USA before starting ESPAR. **Mr. Prasanna Hegde**, Co-founder and Technical Advisor, ESPAR, USA, also participated in the event.

*Chitra*  
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## Report on MOU Activities with ESPAR,USA

JSSSTU signed MoU with ESPAR USA on 22<sup>nd</sup> March 2022. The collaboration is an initiative towards enhancing collaborative training, interdisciplinary projects and innovations

| Sl. No | Activities Conducted                  | Date                                               | Remarks                                                                                                                                                                                                                           | Dates of Communication                                           | Remarks                                                                                                                                  |
|--------|---------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | MOU signing of JSSSTU with ESPAR, USA | 22/03/2022                                         | The MoU was signed by Dr. S. A. Dhanaraj, Registrar of JSS STU and Mr. Nagendra Sanjeeva Founding member and Technology Advisor, ESPAR, USA                                                                                       | Draft MoU was communicated to CRICR for consent in Feb 2022      | Dr.Mallikarjunaswamy MS, Assistant Professor, Dept. of E&I approved by University authorities to coordinate MOU activities on 14.03.2022 |
| 2      | Invited talk                          | 22/03/2022                                         | Mr. Nagendra Sanjeeva and Mr. Prasanna Hegde delivered invited talk on 'Technology Advancements in Mobile Applications and Data Analytics'                                                                                        | Preliminary discussions were Held On 15/03/2022                  | The invited lectures were attended by UG & PG students and faculty members of JSSSTU                                                     |
| 3      | Student Project                       | April 2022 To Dec 2022                             | Chaitanya R, Manjunatha V, Rohit S Kattimani, Sachin V B, Siddesh S Carried out project work titled "Mobile – User Engagement Platform" in collaboration                                                                          | Online interactions were held for progress review                | The project provided industry exposure to students                                                                                       |
| 4      | Student Project                       | April 2022 To Dec 2022                             | Nagaprerana C S, Ritu D, Soundarya S P, Suchitha S Carried out project work titled Audio and Video Compression in collaboration                                                                                                   | Online interactions were held for progress review                | The project provided industry exposure to students                                                                                       |
| 5      | Student Project                       | April 2022 To Dec 2022                             | Mansi N, Namratha C, Rachana S, Sinchana P Carried out project work titled "Mobile Automation" in collaboration                                                                                                                   | Online interactions were held for progress review                | The project provided industry exposure to students                                                                                       |
| 6      | Student Project                       | April 2022 To Dec 2022                             | Brijesh S Shetty, Ramakrishna N, Shashank Gowda B M, Karthik S Jolad Carried out project work titled "Profanity Filter" in collaboration                                                                                          | Online interactions were held for progress review                | The project provided industry exposure to students                                                                                       |
| 7      | Invited talk                          | 21/11/2022                                         | Invited talk on 'Carrier readiness, Innovation and Entrepreneurship' by Mr. Raghu Vishwanath, Co-Founder, Blue Mind Solutions, USA, an event under 'Diamond Jubilee Year 1963-2022', IIC, JSSSTU in collaboration with ESPAR, USA | Communicated in the month of October 2022                        | The talk was attended by students of 5 <sup>th</sup> semester                                                                            |
| 8      | International workshop                | 19 <sup>th</sup> to 23 <sup>rd</sup> December 2022 | One Week International Workshop on Interdisciplinary Topics on Electronics Instrumentation and Healthcare Engineering                                                                                                             | Speakers were communicated through ESPAR, USA and JSSSTU, Mysuru | The workshop was attended by faculty and students and students presented projects                                                        |

  
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| Sl. No | Activities Conducted   | Date                                               | Remarks                                                                                                                            | Dates of Communication                            | Remarks                                        |
|--------|------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------|
| 7      | Student Project        | April 2023 To Nov 2023                             | Ttile: Portable EMG Device<br>Subhash M S, Gagan C, Rahul P                                                                        | Interaction with Mr.Nagendra Sanjeeva, ESPAR, USA | Project provided industry exposure to students |
| 8      | Student Project        | April 2023 To Nov 2023                             | Title: Penvision<br>Advith K, Gagan H S, Samrudh M R, Shishir M                                                                    | Interaction with Mr.Nagendra Sanjeeva, ESPAR, USA | Project provided industry exposure to students |
| 9      | Student Project        | April 2023 To Nov 2023                             | Title: Movie Recommendation System<br>Varuni, Sinchana M M, Smrithi Bhat                                                           | Interaction with Mr.Nagendra Sanjeeva, ESPAR, USA | Project provided industry exposure to students |
| 10     | Student Project        | April 2023 To Nov 2023                             | Title: Stroke Detection using Machine Learning<br>Bhavani R, Likhitha K, Nafiya P M, Niharika D V                                  | Interaction with Mr.Prasanna Hegde, ESPAR, USA    | Project provided industry exposure to students |
| 11     | Student Project        | April 2023 To Nov 2023                             | Title: Webapp for Persist Paper Tube Enterprise<br>Priyadarshini K.B, Sinchana M.R, N Sanjana, Abhishek V K, Nithin shree Shasta L | Interaction with Mr.Prasanna Hegde, ESPAR, USA    | Project provided industry exposure to students |
| 12     | International workshop | 20 <sup>th</sup> to 24 <sup>th</sup> November 2023 | One Week International Workshop on Interdisciplinary Topics on Electronics Instrumentation and Healthcare Engineering              | International workshop                            | 19th to 23rd December 2022                     |

Homework

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## A Report on MOU Activities with CRICR

JSSSTU signed MoU with CRICR, Bengaluru on 8<sup>th</sup> June 2022. The collaboration is an initiative towards enhancing collaborative research, interdisciplinary projects and innovations ('Diamond Jubilee Year 1963-2022').



Dr. S Chandrashekar, Director (R&D), Dr. Renuka P., CRICR visited JSSSTU and signed MOU

A team of PhD students are working with CRICR, Bengaluru under the guidance of Dr. Mallikarjunaswamy M.S., Associate Professor, Dept. of Electronics & Instrumentation, JSSSTU in the following topics

1. Rheumatoid Arthritis
2. Lower Back Pain
3. Foot ulcers

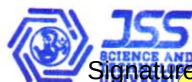
The research work involves capture of infrared images and radiological images under doctors' supervision. Patient data collection with a set of approved questionnaire from ethical committee of CRICR. The team involved in the development of innovative procedures or algorithms towards disease diagnosis using IR Thermograms and radiography images.

The MOU created a platform for research students towards data collection, regular interaction and discussion with doctors. The collaborative research resulted in joint research paper publications, filing and award of design patents.

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## Outcomes of MOU with CRICR

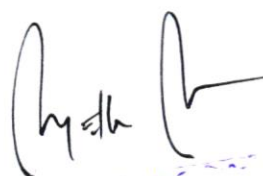
### Collaborative Research

1. Mr. Mahesh Kumar A S (JSTD17ECE006), Research Scholar, JSSSTU, Mysuru completed his PhD research work in collaboration with CRICR, under the guidance of Dr. Mallikarjunaswamy M.S., Dept. of E&I, JSSSTU, Mysuru and awaiting for the award of the PhD Degree in Electronics & Communication Engineering.
2. Mr. Praveen P (JSTD17EIE002), Research Scholar, JSSSTU, Mysuru doing research work in collaboration with CRICR, under the guidance of Dr. Mallikarjunaswamy M.S., Dept. of E&I, JSSSTU, Mysuru.
3. Ms. Sowmya M S (JSTD21EIE002), Research Scholar, JSSSTU, Mysuru doing research work in collaboration with CRICR, under the guidance of Dr. Mallikarjunaswamy M.S., Dept. of E&I, JSSSTU, Mysuru.

### Patents

1. A Portable IR Thermal & Ultrasound based Diagno-Therapeutic Integrated Device for Effective Lower Back Pain Management, P Praveen, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S, CRICR, Bengaluru, Design number: 391633-001 (24-01), The Patent Office Journal, No. 39/2023 Dated 27/09/2023 (Awarded).
2. Flexion Strain Sensor, Praveen P, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S., Design number: 382292-001 (24-02), The Patent Office Journal, No. 31/2023 Dated 01/08/2023 (Awarded).
3. Thermal Camera for Detecting Rheumatoid Arthritis, Mahesh Kumar A S, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S, Design Number: 382293-001 (34-02), The Patent Office Journal, No. 21/2023 Dated 24/05/2023 (Awarded).
4. A Smart Device for the Detection of the Rheumatoid Arthritis using Thermal Image and Method thereof, Mahesh Kumar A S, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S, Application No. 202241046280A, The Patent Office Journal, No. 33/2022 Dated 19/08/2022 (filed and Published).
5. Flexion Sensor based lower back pain analysis system/model, Praveen P, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S, Application No. 202341014645 A, The Patent Office Journal No. 11/2023 Dated 17/03/2023 (filed and Published).

  
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## Outcomes of MOU with CRICR

### Publications

1. Praveen P, Mallikarjunaswamy M S, Chandrashekara S, Detection and Analysis of Gait Impairments in Lower Back Pain (LBP) Patients using Image Processing Techniques in Role of AI in Bio-Medical Translations Research for the Health Care Industry, Book series Communications in Computer and Information Science series, Vol.1987, pp. 55-70, Springer Nature, 2024 (DOI: 10.1007/978-3-031-49454-3\_4). Q4
2. Praveen P, Mallikarjunaswamy M S, Chandrashekara S, Statistical Feature Analysis and Machine Learning based Classification of Lower Back Pain Using Thermal Images, International Neurourology Journal, Vol. 27(4), 2023, pp:510-519.
3. Mahesh Kumar A S, Mallikarjunaswamy M S, Chandrashekara S, Performance Analysis of CNN and Quantized CNN Model for Rheumatoid Arthritis Identification using Thermal Image, in Recent Trends in Image Processing and Pattern Recognition, in book series Communications in Computer and Information Science, Vol. 1704, Springer Cham 2023, pp. 135-150 (ISBN 978-3-031-23599-3, DOI: 10.1007/978-3-031-23599-3\_10). Q4
4. Mahesh Kumar A S, Mallikarjunaswamy M S, Chandrashekara S, Performance Analysis of Rheumatoid Arthritis using Convolutional Neural Networks, NeuroQuantology, Vol. 20(9), 2022, pp:2817-2826 (DOI: 10.14704/nq.2022.20.9.NQ44328) Q3, IF:1.58
5. Mahesh Kumar A S, Mallikarjunaswamy M S, Chandrashekara S, Detection of Rheumatoid Arthritis using a Convolutional Neural Network, in book series Advances in Intelligent Systems and Computing, Vol. 1387, Springer Singapore 2022, pp.607-618 (DOI: 978-981-16-2594-7\_50, ISBN: 978-981-16-2594-7). Q4
6. P Praveen, Mallikarjunaswamy M S, Chandrashekara S, Influence of Aging and High BMI on Lower Back Pain, Machines Mechanisms and Robotics, in book series Lecture Notes in Mechanical Engineering, Springer Singapore 2022, pp. 27-31(DOI: 978-981-16-0550-5\_4, ISBN: 978-981-16-0552-9). Q4



**Dr. Mallikarjunaswamy M.S.**  
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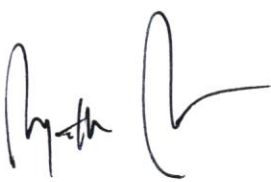
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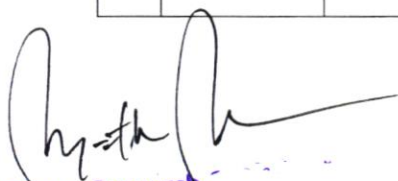
  
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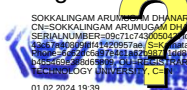
### A Report on MOU Activities with CRICR

JSSSTU signed MoU with CRICR, Bengaluru on 8<sup>th</sup> June 2022. The collaboration is an initiative towards enhancing collaborative research, interdisciplinary projects and innovations

| Sl. No | Activities Conducted                        | Date       | Remarks                                                                                                                                                                                                                                                                                                   | Dates of Communication                                                                                                                                                                              | Remarks                                                                                                                                  |
|--------|---------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | MOU signing of JSSSTU with CRICR, Bengaluru | 8/06/2022  | Dr. S Chandrashekar, Director (R&D), Dr. Renuka P., CRICR visited JSSSTU and signed MOU With JSSSTU authorities                                                                                                                                                                                           | 17.02.2022<br>Draft MoU was communicated to CRICR for consent                                                                                                                                       | Dr.Mallikarjunaswamy MS, Assistant Professor, Dept. of E&I approved by University authorities to coordinate MOU activities on 14.03.2022 |
| 2      | Invited talk                                | 8/6/2022   | Dr. Chandrashekar S, Rheumatologist and Dr. Renuka, CRICR                                                                                                                                                                                                                                                 | <b>Topics covered</b><br>1. The role of Engineers in Medicine and Research<br>2. Importance of diagnostic tools in medicine<br>3. Information security, risk, controls and vulnerability management | The invited lectures were attended by research scholars, UG & PG students and faculty members of JSSSTU                                  |
| 3      | Book chapter Publication                    | June 2022  | P Praveen, Mallikarjunaswamy M S, Chandrashekhara S, Influence of Aging and High BMI on Lower Back Pain, Machines Mechanisms and Robotics, in book series Lecture Notes in Mechanical Engineering, Springer Singapore 2022, pp. 27-31(DOI: 978-981-16-0550-5_4, ISBN: 978-981-16-0552-9).                 | Initial discussions were held in the year 2019 and paper was presented continued in 2021 and final version was released in year 2022                                                                | Regular discussion were held online in the year 2020 and 2021 due to COVID pandemic situation                                            |
| 4      | Book chapter Publication                    | 2022       | Mahesh Kumar A S, Mallikarjunaswamy M S, Chandrashekhara S, Detection of Rheumatoid Arthritis using a Convolutional Neural Network, in book series Advances in Intelligent Systems and Computing, Vol. 1387, Springer Singapore 2022, pp.607-618 (DOI: 978-981-16-2594-7_50, ISBN: 978-981-16-2594-7). Q4 | Initial discussions were held during the year 2020 and 2021                                                                                                                                         | Regular discussion were held online in the year 2020 and 2021 due to COVID pandemic situation                                            |
| 5      | Patent filed                                | 19/08/2022 | A Smart Device for the Detection of the Rheumatoid Arthritis using Thermal Image and Method thereof, Mahesh Kumar A S, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekhara S, Application No. 202241046280A, The Patent Office Journal, No. 33/2022 Dated 19/08/2022                        | Online Discussions were held in July 2022                                                                                                                                                           | Patent is filed and Published.                                                                                                           |

  
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| 6  | Research Journal publication    | Sept 2022                                                     | Mahesh Kumar A S, Mallikarjunaswamy M S, Chandrashekara S, Performance Analysis of Rheumatoid Arthritis using Convolutional Neural Networks, NeuroQuantology, Vol. 20(9), 2022, pp:2817-2826 (DOI:10.14704/nq.2022.20.9.NQ44328)                                                                                                                                                                                     | Discussions were held in July and Aug 2022                    | Collaborative research paper published |
| 7  | Springer book chapter           | Presented in the conference during 1-2 <sup>nd</sup> Dec 2022 | Mahesh Kumar A S, Mallikarjunaswamy M S, Chandrashekara S, Performance Analysis of CNN and Quantized CNN Model for Rheumatoid Arthritis Identification using Thermal Image, in Recent Trends in Image Processing and Pattern Recognition, in book series Communications in Computer and Information Science, Vol. 1704, Springer Cham 2023, pp. 135-150 (ISBN 978-3-031-23599-3, DOI: 10.1007/978-3-031-23599-3_10). | Presented in the conference during 1-2 <sup>nd</sup> Dec 2022 |                                        |
| 8  | Patent filed                    | 17/03/2023                                                    | Flexion Sensor based lower back pain analysis system/model, Praveen P, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S, Application No. 202341014645 A, The Patent Office Journal No. 11/2023 Dated 17/03/2023.                                                                                                                                                                                   | Discussions were held in Jan-Feb 2023                         | Patent filed and published             |
| 9  | Design patent filed and awarded | 24/05/2023                                                    | Thermal Camera for Detecting Rheumatoid Arthritis, Mahesh Kumar A S, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S, Design Number: 382293-001 (34-02), The Patent Office Journal, No. 21/2023 Dated 24/05/2023.                                                                                                                                                                                 | Discussions were held in March, April 2023                    | Design patent awarded                  |
| 10 | Design patent                   | 1/8/2023                                                      | Flexion Strain Sensor, Praveen P, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S., Design number: 382292-001 (24-02), The Patent Office Journal, No. 31/2023 Dated 01/08/2023                                                                                                                                                                                                                    | Discussions were held in May, June 2023                       | Design patent awarded                  |

  
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|    |                |                              |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |                                 |
|----|----------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------|
| 11 | Design patent  | 27/9/2023                    | A Portable IR Thermal & Ultrasound based Diagno-<br>Therapeutic Integrated Device for Effective Lower Back Pain Management, P Praveen, Dr. Mallikarjunaswamy M S, JSSSTU, Mysuru and Dr. Chandrashekara S, CRICR, Bengaluru, Design number: 391633-001 (24-01), The Patent Office Journal, No. 39/2023 Dated 27/09/2023                                                                                   | Discussions were held in July 2023                      | Design patent awarded           |
| 12 | Research paper | 22-23 <sup>rd</sup> Nov 2023 | Praveen P, Mallikarjunaswamy M S, Chandrashekara S, Detection and Analysis of Gait Impairments in Lower Back Pain (LBP) Patients using Image Processing Techniques in Role of AI in Bio-Medical Translations Research for the Health Care Industry, Book series Communications in Computer and Information Science series, Vol.1987, pp. 55-70, Springer Nature, 2024 (DOI: 10.1007/978-3-031-49454-3_4). | Discussions were held in Sept 2023                      | Springer book chapter published |
| 13 | Research paper | Dec 2023                     | Praveen P, Mallikarjunaswamy M S, Chandrashekara S, Statistical Feature Analysis and Machine Learning based Classification of Lower Back Pain Using Thermal Images, International Neurourology Journal, Vol. 27(4), 2023, pp:510-519.                                                                                                                                                                     | Discussions were held in June 2023                      | Journal paper published         |
| 14 | PhD            | 30 Dec 2023                  | Mr. Mahesh Kumar A S (JSTD17ECE006), final viva-voce held and PhD thesis on Study of clinically significant features of Rheumatoid Arthritis (RA) using the Radiographic images & IR Thermograms submitted.                                                                                                                                                                                               | The research work conducted in collaboration with CRICR | PhD work completed              |

Manish

**Dr. Mallikarjunaswamy M.S.**  
**MoU Coordinator CRICR**  
**Associate Professor**  
**Dept. of E&I**  
**JSSSTU, Mysuru**

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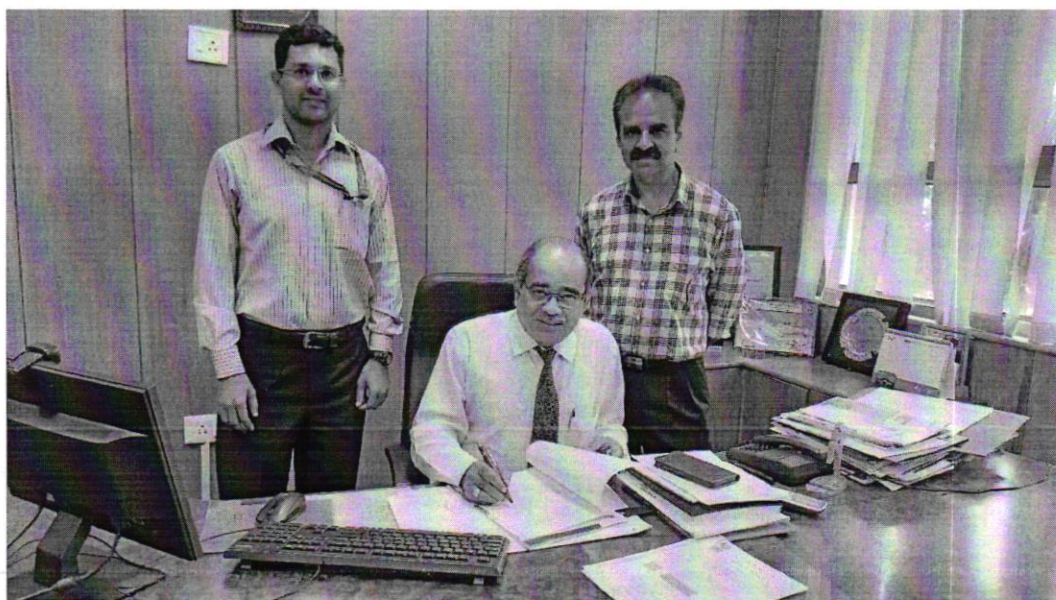
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43c67a0809fd141420957a; O=S\*Matkuta, PostalCode=57000  
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b46549e388d5809, OU=REGISTRAR, O=JSS SCIENCE AND  
TECHNOLOGY UNIVERSITY, C=IN



## MoU signing event between JSS Science and Technology University and Graphic Era University, Dehradun

An MoU was signed between JSS Science and Technology University and Graphic Era University, Dehradun separately in both the universities. Dr. S A Dhanaraj, Registrar, JSS STU signed the MoU papers on 17/08/2022 and Dr. Nagaraju, Vice Chancellor, GEU, Dehradun signed on 25/07/2022. The papers were exchanged via post.



*(Handwritten signature)*

Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

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**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.

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## Press Note

### Ek Bharat Shreshtha Bharat (EBSB) Club Inaugural and Cultural event

JSS Science and Technology University (JSS STU), Mysuru had a grand inaugural event of the Ek Bharat Shreshtha Bharat (EBSB) Club, followed by the much celebrated cultural event on 4th of March 2022, in the Quadrangle of the JSS STU Campus, Mysuru. EBSB is a prestigious initiative by the Government of India, as part of which we celebrate the unity in diversity of our nation, and promote the spirit of national integration by celebrating our culture, which is plethora of diverse traditions and art forms, courtesies and customs, cuisines, languages and attires, and appreciate the diversity, thus fostering a sense of common identity.

The event was meticulously planned by Dr. Aruna Adarsh, Dr. Pushpa Tuppad, Dr. Manjunatha B and Prof. C S Santhosh, the principle coordinators of the EBSB JSS STU Club and was inaugurated by the honorable Chief Guest Dr. C G Betsumath, the executive secretary of JSS Mahavidyapeetha, Presided by Prof. S A Dhanaraj, Registrar of JSS STU, the Guest of Honour Prof. S B Kivade, Principal and Dean (Engineering and Technology) of JSS STU, Prof. Sunil Kumar, Student Welfare Officer of JSS STU and Prof. C S Santhosh, who is also the Nodal Officer of EBSB JSS STU Club were present.

The inaugural event was followed by an illustrious cultural event, which marked as a remarkable opportunity for the student fraternity to get exposed to an extensive and inclusive cultural diversity of our state, Karnataka. Dignitaries, performers, students, faculty and staff groomed in traditional attire showcasing the ethnocentricity of Karnataka.



*Dr. Vanishri Arun*

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TECHNOLOGY UNIVERSITY  
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*Dr. C. S. Santhosh*











JSS Mahavidyapeetha  
**JSS Science and Technology University**

(Established Under JSS Science and Technology University Act No. 43 of 2013)



**JSS**  
SCIENCE AND  
TECHNOLOGY  
UNIVERSITY  
MYSURU

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JSS /STU/2019-20/ACM/EBSB/032/11

30.03.2022

To  
The Nodal Officer  
EBSB  
JSS STU  
JSS TI Campus  
Mysore

Sir,

Sub: Conducting "Ek Bharat Shrestha Bharat (EBSB) day" at JSS STU Campus  
- SJCE, Mysuru.  
Ref: Letter dated 25.03.2022.

With reference to the subject cited above, I hereby convey approval of the University authorities for organizing "Ek Bharat Shrestha Bharat (EBSB) day" at JSS STU Campus on 4<sup>th</sup> May 2022 at an estimate cost of Rs. 70,000/-.

| Sl. No. | Particulars           | Amount (in Rs.) |
|---------|-----------------------|-----------------|
| 1       | Event Banner          | 15,000/-        |
| 2       | Mementos & Gifts      | 7,000/-         |
| 3       | Flowers & Bouquets    | 5,000/-         |
| 4       | Guest Refreshments    | 2,000/-         |
| 5       | Prizes & Certificates | 3,000/-         |
| 6       | Sound Systems         | 30,000/-        |
| 7       | Participation goodies | 5,000/-         |
| 8       | Miscellaneous         | 3,000/-         |
| Total   |                       | 70,000/-        |

Thanking you.

Yours faithfully

Registrar (JSS STU)

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Associate Professor  
Department of Information Science and Engineering  
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43c67408090d41420957ae / SJCE, Mysuru, PostalCode=570006,  
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# PROFORMA FOR REPORTING AZADI KA AMRIT MAHOTSAV (AKAM) EVENTS

| Particulars                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |             |       |           |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------|-----------|
| Name of Institute                        | JSS Science and Technology University, Mysuru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |       |           |
| PID                                      | JSS STU 1-3738162321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | District | Mysuru      | State | Karnataka |
| Name of event                            | Mini Video Documentary : Indian Space Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |       |           |
| Start date of event                      | 26 <sup>th</sup> May 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |             |       |           |
| End date of event                        | 10 <sup>th</sup> June 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |       |           |
| Theme of event                           | Actions@75: Atmanirbhar Bharat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |       |           |
| Description of event                     | <p>JSS Science and Technology University, Mysuru conducted this exciting event to commemorate 75 glorious years of India's independence. The activity included making of 'Mini video documentary'. Theme of the event was to showcase India's exemplary achievements, specifically in the domain of space research.</p> <p>The event was open for the students and staff of Science and Technology University (JSSSTU). Documentary was expected to be of 2 – 3 minutes long and could consist of run through pictures/flash videos/or any innovative modes with relevant background narratives and music. The event information along with instructions were floated via emails, whatsapp and instagram platforms to reach the student and staff community of JSSSTU. Video documentaries were received from teams across various departments of JSSSTU. These were evaluated based on a set of criteria and top three entries were announced. However, all the entries received were excellent as they artfully highlighted the Indian achievements in space applications. Winners and all other participants were given e-certificates.</p> <p>Entries received highlighted India's space research journey from the humble beginning to and indigenous technology building launch vehicles, satellite missions and technology demonstration missions.</p> |          |             |       |           |
| Nature of participation in event         | Only participation from within the Institute (no public)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |       |           |
| Expected number of participants in event | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |       |           |
| VIP attendees (if any)                   | EBSB members                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |       |           |
| Associate partners                       | Ministry #1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | State/UT#1: |       |           |
|                                          | Ministry#2:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | State/UT#2: |       |           |
|                                          | Ministry#3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | State/UT#3: |       |           |
| Mode of Event                            | Online Event (virtual event)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |       |           |
| Mode of advertisement of event           | <ul style="list-style-type: none"> <li>Website</li> <li>Social Media</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |       |           |

*Vanishri*

**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
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**Name of Principal / Director: Dr. S B Kivade.**

**Email ID: principal @sjce.ac.in**

**Phone number: 0821- 2548293**

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Dean - Research  
JSS Science and Technology University  
JSS Technical Institutions  
Mysuru - 570 006, Karna

*[Signature]*



# PROFORMA FOR REPORTING AZADI KA AMRIT MAHOTSAV (AKAM) EVENTS

| Particulars                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |        |       |           |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-----------|
| Name of Institute                        | JSS Science and Technology University, Mysuru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |        |       |           |
| PID                                      | JSS STU 1-3738162321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | District | Mysuru | State | Karnataka |
| Name of event                            | Mini Video Documentary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |        |       |           |
| Start date of event                      | 15 <sup>th</sup> July 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |        |       |           |
| End date of event                        | 30 <sup>th</sup> July 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |        |       |           |
| Theme of event                           | Achievements @75: Atmanirbhar Bharat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |        |       |           |
| Description of event                     | <p>JSS Science and Technology University, Mysuru conducted this exciting event to commemorate 75 glorious years of India's independence. The activity included making of 'Mini video documentary'. Theme of the event was to showcase India's exemplary achievements in the last 75 years.</p> <p>The following achievements are remarkable and worth mentioning as a milestone in Indian history.</p> <p><b>THE WHITE REVOLUTION</b></p> <p>The revolution was associated with a sharp increase in milk production in the country and also called as Operation Flood. White revolution period intended to make India a self-dependent nation in milk production. Today, India is the world's largest producer of milk. Dr. Verghese Kurien is known as the father of the White Revolution in India.</p> <p><b>THE GREEN REVOLUTION</b></p> <p>Right after independence, India was importing food grains and depending upon international food aid up to the mid-1960s. In 1963, the Green Revolution modernised agriculture with better seeds, fertilisers and technology. Today India has self-sufficiency in food production and exports various food grains. We are the largest producers of fresh fruits, milk, pulses and oilseeds, sunflower seeds, and second-largest producers of wheat, rice, sugarcane, potato, tea, cotton, etc.</p> <p>The event was open for the students and staff of Science and Technology University (JSSSTU). Documentary was expected to be of 2 – 3 minutes long and could consist of run through pictures/flash videos/or any innovative modes with relevant background narratives and music. The event information along with instructions were floated via emails, whatsapp and instagram platforms to reach the student and staff community of JSSSTU. Video documentaries were received from teams across various departments of JSSSTU. These were evaluated based on a set of criteria and top three entries were announced. However, all the entries received were excellent as they artfully highlighted the Indian achievements in space applications. Winners and all other participants were given e-certificates.</p> <p>Entries received highlighted India's Achievements in these two revolutions.</p> |          |        |       |           |
| Nature of participation in event         | Only participation from within the Institute (no public)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |        |       |           |
| Expected number of participants in event | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |        |       |           |
| VIP attendees (if any)                   | EBSB team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |        |       |           |
| Mode of Event                            | Online Event (virtual event)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |        |       |           |
| Mode of advertisement of event           | <ul style="list-style-type: none"> <li>Website</li> <li>Social Media</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |        |       |           |

Name of Principal / Director: Dr. S B Kivade.

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# PROFORMA FOR REPORTING AZADI KA AMRIT MAHOTSAV (AKAM) EVENTS

| Particulars                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |             |       |           |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------|-----------|
| Name of Institute                        | JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU – 570 006                                                                                                                                                                                                                                                                                                                                                                                         |          |             |       |           |
| PID                                      | JSS STU 1-3738162321                                                                                                                                                                                                                                                                                                                                                                                                                            | District | MYSURU      | State | KARNATAKA |
| Name of event                            | RASHTRAGAAN                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |       |           |
| Start date of event                      | 03 <sup>rd</sup> September 2021                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |       |           |
| End date of event                        | 03 <sup>rd</sup> September 2021                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |       |           |
| Theme of event                           | <ul style="list-style-type: none"> <li>Ideas@75 ( Vasudev Kutumbakam)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                |          |             |       |           |
| Description of event                     | The National Anthem Programme was (Rashtragaan) conducted by the JSS Science and Technology University Students, faculty and all other staff as part of the Azadi Ka Amrit Mahotsav 2021 Celebration. About 200 members attended the event, which was attended by the University Registrar, University Authority, College Principal, Deans, HOD's. At the same time, students and participated members were made aware of patriotic patriotism. |          |             |       |           |
| Nature of participation in event         | <ul style="list-style-type: none"> <li>Jan bhagidari (open to public)</li> <li>Only participation from within the Institute (no public) – Yes</li> </ul>                                                                                                                                                                                                                                                                                        |          |             |       |           |
| Expected number of participants in event | 200 + Members.                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |       |           |
| VIP attendees (if any)                   | University Authority.                                                                                                                                                                                                                                                                                                                                                                                                                           |          |             |       |           |
| Associate partners                       | Ministry #1:                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | State/UT#1: |       |           |
|                                          | Ministry#2:                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | State/UT#2: |       |           |
|                                          | Ministry#3:                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | State/UT#3: |       |           |
| Mode of Event                            | <ul style="list-style-type: none"> <li>Offline Event (in-person participation) Offline Mode.</li> </ul>                                                                                                                                                                                                                                                                                                                                         |          |             |       |           |
| Mode of advertisement of event           | <ul style="list-style-type: none"> <li>Website</li> <li>Social Media</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 |          |             |       |           |

Name of Principal / Director: Dr. S B Kivade.

Email ID: principal @sjce.ac.in

Phone number: 0821- 2548293

  
 Dr. S B Kivade, Ph.D.  
 Department of Information Science and Engineering  
 JSS Science and Technology University  
 Mysuru - 570 006, India.

Signature Not Verified

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 43c67408090541420957ae/SJK, Mysuru, PostalCode=570006,  
 Phone=0821082174390001233001796ea45d76c824f  
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 TECHNOLOGY UNIVERSITY

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# PROFORMA FOR REPORTING AZADI KA AMRIT MAHOTSAV (AKAM) EVENTS

| Particulars                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |       |           |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------|-----------|
| Name of Institute                        | JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |       |           |
| PID                                      | JSS STU 1-3738162321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | District | MYSURU      | State | KARNATAKA |
| Name of event                            | Fit India Freedom Run 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |       |           |
| Start date of event                      | 29 <sup>th</sup> September 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |       |           |
| End date of event                        | 29 <sup>th</sup> September 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |       |           |
| Theme of event                           | ▪ Actions@75 (Swastha Bharat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |       |           |
| Description of event                     | Fit India Freedom Run 2.0 Programme was conducted by the JSS Science and Technology University Students, faculty and all other staff as part of the Azadi Ka Amrit Mahotsav 2021 FIT India Freedom Run 2.0 Celebration. About 100 members attended the event, which was attended by the University Deputy Registrar, University Assistant Registrar, and Sports Committee members, HOD's. At the same time, the assistant Registrar of the University, spoke about the importance of physical activity in daily life and the benefits it can bring. Students were educated about current physical illness and how to fight against infectious diseases if increased physical fitness in the case of infectious diseases such as Covid – 19. |          |             |       |           |
| Nature of participation in event         | ▪ Only participation from within the Institute (no public)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |       |           |
| Expected number of participants in event | 100 + Members.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |             |       |           |
| VIP attendees (if any)                   | University Authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |       |           |
| Associate partners                       | Ministry #1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | State/UT#1: |       |           |
|                                          | Ministry#2:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | State/UT#2: |       |           |
|                                          | Ministry#3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | State/UT#3: |       |           |
| Mode of Event                            | ▪ Offline Event (in-person participation) Offline Mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |             |       |           |
| Mode of advertisement of event           | ▪ Website<br>▪ Social Media                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |       |           |

Name of Principal / Director: Dr. S B Kivade.

Email ID: principal @sjce.ac.in

Phone number: 0821- 2548293

  
**Dr. Vanishri Arun** B.E., M.Tech, Ph.D.  
 Associate Professor  
 Department of Information Science and Engineering  
 JSS Science and Technology University  
 Mysuru 576 006, India.

Signature Not Verified

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 b485489e38d465809, OU-REGISTRAR, O-JSS SCIENCE AND TECHNOLOGY UNIVERSITY  
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| Particulars                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Details  |             |       |           |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-------|-----------|
| Name of Institute                        | JSS Science and Technology University, Mysuru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |             |       |           |
| PID                                      | JSS STU 1-3738162321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | District | Mysuru      | State | Karnataka |
| Name of event                            | Swachhata Pakwada                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |             |       |           |
| Start date of event                      | 03/09/2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |       |           |
| End date of event                        | 08/09/2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |       |           |
| Theme of event                           | Actions@75: Swachha Bharat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |             |       |           |
| Description of event                     | A series of activities were conducted under Swachhata Pakwada by the JSS Science and Technology University, Mysuru from 03/09/2021 to 08/09/2021. To ensure participation from all students and staff of all the academic departments and office sections, department wise activities were planned and executed accordingly. Various activities included, Swachhta pledge, plantation of saplings, cleanliness drives in the campus premises, plogging event, presentation of innovative technologies for waste recycling, energy conservation, etc., Competitions regarding swachhta through speech, poster making, slogan writing, etc., Online Talk show on swachhta to create awareness among students on all aspects of Swachhta including personal, physical, mental, environmental, societal, etc., Competitions regarding Forest and water conservation through speech, poster making, slogan writing, cleanliness in kitchen, food waste management, Village activity for creating awareness on complete ban on single use plastic, Barrier free access to drinking water and toilet facilities for Divyang students, etc. |          |             |       |           |
| Nature of participation in event         | Only participation from within the Institute (no public)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |             |       |           |
| Expected number of participants in event | 1000+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |             |       |           |
| VIP attendees (if any)                   | University higher officers and Staff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |             |       |           |
| Associate partners                       | Ministry #1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | State/UT#1: |       |           |
|                                          | Ministry#2:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | State/UT#2: |       |           |
|                                          | Ministry#3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | State/UT#3: |       |           |
| Mode of Event                            | Online Event (virtual event)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |       |           |
| Mode of advertisement of event           | <ul style="list-style-type: none"> <li>▪ Website</li> <li>▪ Social Media</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |             |       |           |

Phone number:0821- 2548293

Signature Not Verified

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Phone=63602668764161828070;01089109115156369252e3a11  
1645469e389d56909;OJ=RD;CN=RD;O=JSS SCIENCE AND  
TECHNOLOGY UNIVERSITY, C-11  
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| Particulars                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |        |       |           |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|-------|-----------|
| Name of Institute                        | JSS Science and Technology University, Mysuru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |        |       |           |
| PID                                      | JSS STU 1-3738162321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | District | Mysuru | State | Karnataka |
| Name of event                            | Kargil War                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |        |       |           |
| Start date of event                      | 1.11.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |        |       |           |
| End date of event                        | 15.11.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |        |       |           |
| Theme of event                           | Ideas @75 (Ideas & ideals which unite the country):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |        |       |           |
| Description of event                     | <p>JSS Science and Technology University, Mysuru conducted this exciting event to commemorate 75 glorious years of India's independence. The activity included making of 'Mini video documentary'. Theme of the event was to showcase India's exemplary achievements under the theme Ideas @75 (Ideas &amp; ideals which unite the country) The event was open for the students and staff of Science and Technology University (JSSSTU). Documentary was expected to be of 2 – 3 minutes long and could consist of run through pictures/flash videos/or any innovative modes with relevant background narratives and music. The event information along with instructions were floated via Emails, WhatsApp, website and Instagram platforms to reach the student and staff community of JSSSTU. Video documentaries were received from teams across various departments of JSSSTU. All the entries received were excellent as they artfully highlighted the kargil war. Winners and all other participants were given e-certificates.</p> <p>The karigil war documentary submitted the team highlighted the following.</p> <p>The crisis is significant at several levels for both Pakistan and India. For Pakistan, it reconfirmed LIC as a legitimate tool for attaining political goals, but it probably also caused the Pakistani leadership to conclude that Kargil-like operations are not legitimate in the current international environment. Moreover, Kargil stands as yet another x Limited Conflicts Under the Nuclear Umbrella symbol of the failure of Pakistan's grand strategy and illustrates Islamabad's inability to anticipate the international opprobrium and isolation that ensued from its actions in Kargil. In addition, the crisis posed real concerns about the possibility of the conflict widening to conventional warfare and subsequently escalating to nuclear use. For India, Kargil confirmed its belief that Pakistan is a reckless, adventuristic, and untrustworthy state. The most important lesson Pakistan took from the crisis was that Kargil-like operations have high political costs, especially for Pakistan's international reputation. The most important lesson learned by India was that it must be prepared to counter a wide range of Pakistani threats that may be mounted by what is essentially a reckless but tenacious adversary.</p> |          |        |       |           |
| Nature of Participation in event         | <ul style="list-style-type: none"> <li>Only participation from within the Institute (no public)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |        |       |           |
| Expected number of participants in event | 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |        |       |           |
| VIP attendees (if any)                   | EBSB team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |        |       |           |
| Mode of Event                            | <ul style="list-style-type: none"> <li>Online Event (webinar, virtual event)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |        |       |           |
| Mode of advertisement of event           | <ul style="list-style-type: none"> <li>Website</li> <li>Social Media</li> <li>Notice Board</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |        |       |           |

  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

01.02.2024 19:39







# PROFORMA FOR REPORTING AZADI KA AMRIT MAHOTSAV (AKAM) EVENTS

| Particulars                              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Institute                        | JSS Science and Technology University, Mysuru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PID                                      | JSS STU 1-3738162321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| District                                 | Mysuru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| State                                    | Karnataka                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Name of event                            | Operations Smiling Buddha, Nuclear Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Start date of event                      | 16.11.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| End date of event                        | 30.11.2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Theme of event                           | Ideas @75 (Ideas & ideals which unite the country):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Description of event                     | <p>JSS Science and Technology University, Mysuru conducted this exciting event to commemorate 75 glorious years of India's independence. The activity included making of 'Mini video documentary'. Theme of the event was to showcase India's exemplary achievements under the theme Ideas @75 (Ideas &amp; ideals which unite the country) The event was open for the students and staff of Science and Technology University (JSSSTU). Documentary was expected to be of 2 – 3 minutes long and could consist of run through pictures/flash videos/or any innovative modes with relevant background narratives and music. The event information along with instructions were floated via Emails, WhatsApp, website and Instagram platforms to reach the student and staff community of JSSSTU. Video documentaries were received from teams across various departments of JSSSTU. All the entries received were excellent as they artfully highlighted the Operations Smiling Buddha, Nuclear Test. Winners and all other participants were given e-certificates.</p> <p>The Operations Smiling Buddha, Nuclear Test documentary submitted the team highlighted the following.</p> <p>Operation Smiling Buddha was the codename assigned for India's first successful nuclear bomb test which was carried out on 18 May 1974. It was designated as Pokhran - I by the Ministry of External Affairs. Pokhran-I was also the first confirmed nuclear weapons test by a nation outside the five permanent members of the United Nations Security Council. The foundation for India's nuclear programme was laid in 1944 when Homi Jehangir Bhabha founded the Tata Institute of Fundamental Research. After the independence of India, Prime Minister Jawaharlal Nehru sanctioned the development of a nuclear programme helmed by Homi Bhabha.</p> <p>The device was of the implosion-type design and had a close resemblance to the American nuclear bomb called the Fat Man, which had destroyed the Japanese city of Nagasaki decades earlier. The fully assembled device had a hexagonal cross section, 1.25 metres in diameter, and weighed 1400 kg. The overall project was supervised by Homi Sethna. To preserve secrecy, the project employed no more than 75 scientists and engineers from 1967–74. Future president of India, APJ Abdul Kalam, also arrived at the test site as the representative of the DRDO.</p> |
| Nature of participation in event         | <ul style="list-style-type: none"> <li>Only participation from within the Institute (no public)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Expected number of participants in event | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VIP attendees (if any)                   | EBSB team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Mode of Event                            | <ul style="list-style-type: none"> <li>Online Event (webinar, virtual event)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mode of advertisement of event           | <ul style="list-style-type: none"> <li>Website</li> <li>Social Media</li> <li>Notice Board</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Name of Principal / Director: Dr. S B Kivade.

Email ID: principal @sjce.ac.in

Phone number: 0821- 2548293

Signature Not Verified

Dr. Vanishri Arun B.E., M.Tech., Ph.D.

Associate Professor

Department of Information Science and Engineering

JSS Science and Technology University

Mysuru - 570 006, India.

01.02.2024 19:39



**JSS Mahavidyapeetha**  
**JSS Science and Technology University**

(Established Under JSS Science and Technology University Act No. 43 of 2013)



**JSS**  
**SCIENCE AND**  
**TECHNOLOGY**  
**UNIVERSITY**  
MYSURU

STU/JCE/DRO/MOU/GEU/20/2022-23/57

25/03/2022

To  
The Principal & Dean (E&T)  
SJCE, JSS Science and Technology University  
JSS TI Campus, Mysuru

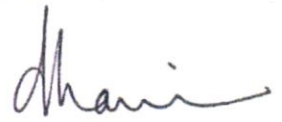
Sir,

Subject: MOU with Graphic Era Deemed to be University, Dehradun, Uttarakhand: reg

With reference to the above subject and as per the directions of the Vice Chancellor, I hereby convey the approval to sign the MOU between JSS STU, Mysuru, and Graphic Era Deemed to be University, Dehradun, Uttarakhand to carry out the Ek Bharat Shreshtha Bharat (EBSB) activities.

It is also approved Rs. 783,500/- for the students study tour program to visit Graphic Era Deemed to be University, Dehradun, Uttarakhand. The approved amount should cover the Travel and Food Expenses for 55 members.

The EBSB Nodal officer Mr. C S Santhosh, Dept. of Computer Applications is requested to take further actions in this regard and update the date of MOU signing to the undersigned office.

  
Registrar

Copy to:

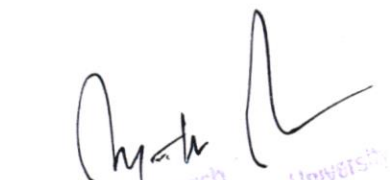
- The Vice Chancellor – through Secretary for kind information
- Dean (Academic) – JSS STU
- The Finance Officer – JSS STU
- Assistant Registrar (Admin), JSS STU
- Mr. C S Santhosh, Dept. of Computer Applications – EBSB Nodal Officer
- Office Copy



**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science  
JSS Science and Technology University  
Mysuru - 570 006, India.

Signature Not Verified

  
01.02.2024 19:39

  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

📍 JSS Technical Institutions Campus, Mysuru - 570 006, Karnataka, India.

☎ +91 2548285 / 86 / 89





JSS MAHAVIDYAPEETHA

**JSS Science and Technology University**

(Established under the JSS Science and Technology University Act.No. 43 of 2013)

JSS TI Campus, Mysuru 570 006

Divine Blessings

**H.H.Jagadguru Sri Shivarathri Deshikendra Mahaswamiji**

Jagadguru Sri Veerasimhasana Mahasamsthana Math

Suttur Srikshetra

Ek Bharat Shreshtha Bharat (EBSB) JSS STU Club Presents

# EBSB DAY

04.05.2022

Chief Guest

**Dr. C.G.Betsurmamath**

Executive Secretary  
JSS Mahavidyapeetha

Guest of Honour

**Prof. S.B.Kivade**

Principal, SJCE

Presided by

**Prof. S.A.Dhanaraj**

Registrar, JSS STU

**You are Cordially Invited**

Heads of Departments, Staff and Students

**Venue : SJCE Quadrangle**

**Time : 10.30 am**

**YouTube Live - [https://youtu.be/YCMO\\_z\\_RRak](https://youtu.be/YCMO_z_RRak)**



Signature Not Verified

Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.



Dean - Research  
JSS Science & Technology University  
Campus  
Mysuru



# Programme

- 10.30 AM – Invocation
- 10.35 AM – Naada Geethe
- 10.40 AM – Welcome Speech
- 10.50 AM – EBSB JSS STU Club Report
- 11.00 AM – Address by The Chief Guest
- 11.15 AM - Address by Guest of Honour
- 11.20 AM – Presidential Remarks
- 11.30 AM - Vote of Thanks
- 11.45 AM Onwards – Cultural Program



- ✦ Music Concert by Naada Music Club, JSS STU, Mysuru
- ✦ Bharathanatyam Group Dance by Ms.Neha & Team, JSS STU, Mysuru
- ✦ Yakshagaana by Ms.Dhaval & Team, JSS STU, Mysuru
- ✦ Dance – Drama Play Bb Balaga, Gravity & Velocity Teams, JSS STU, Mysuru
- ✦ Karnataka Traditional Walk by MBA Students, JSS STU, Mysuru

## EBSB TEAM

*Prof. C.S.Santhosh*

*Dr.B. Manjunatha*

*Dr. Pushpa Tuppad*

*Dr. Aruna Adarsh*



Signature Not Verified

Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.



Dean - Research  
JSS Science & Technology Univ  
JSS Technical Institutions' Cam  
Mysuru - 570 006, Karnataka







# WHAT IS ESG

ESG is a framework that helps stakeholders understand how an organization is managing risks and opportunities related to environmental, social and governance criteria.

ESG takes the holistic view that sustainability extends beyond just environmental issues.

While the term ESG is often used in the context of investing, stakeholders include not just the investment community but also customers, suppliers and employees; all of whom are increasingly interested in how sustainable an organization's operations are.

## ABOUT THE PROGRAM

The program is designed as a comprehensive course on ESG giving a holistic understanding of the philosophy of ESG, its principles, its relevance and its implication in the current scenario. Describes key ESG concepts like materiality, physical climate risks, human capital management, and governance issues.

The learning includes changing role of business in society, biodiversity crisis, going net zero, circularity and supply chains, ESG reporting and nature of system problems. Differentiates between good ESG disclosure and greenwashing and connects ESG efforts to competitive advantages.

Specializations allow narrow and deep focus on a targeted subject area, with particular attention to specific analysis techniques and actionable skills. Analyses ESG risks and opportunities for an organization or an industry through multiple case studies. The program is designed to deepen your industry acumen and to prepare you for faster professional growth within your sector.

COURSE IS  
MEANT FOR

Early adapters of ESG and those willing to carry out a project in ESG

Those leading teams to implement an ESG initiative or program

Those looking for strategic approaches to ESG

Those keen to enhance their career prospects

Those motivated by collaborative effort, impact & success

## LEARNING JOURNEY

Collaborative online learning  
modules / coaching sessions  
(120 minutes each)

In person / hybrid networking events; ESG experts as guest speakers.

Independent work to apply learning from online modules with an ongoing online community

Case studies, articles and materials, templates and toolkits

[illegible]

## COURSE OUTCOMES

Ability to assess and define the key elements needed to start an ESG program at your organization

Gain the knowledge, tools and tactics necessary to craft an ESG project

Heightened competencies in strategic design thinking and ESG

Build an ESG community  
through empathy, insights &  
collaboration

Professor & Head  
Department of Environmental Engineering  
Sri Jayachamarajendra College of Engineering  
JSS Science and Technology University  
MYSURU-570 006.



## FACULTY OVERVIEW

**Ms. Keerthi D Souza** is Sustainability Professional and is "Green change maker awardee", UN Hero Awardee, Best Sustainability awards team leader of CII for 2021, and has played a key role in bridging the gap between the business world and the community.

She has spent over two decades in a variety of industries, including the automotive, power, glass, food, software, facility management, transport, mining, hospitals, and institutions.

She conceptualised the "Green think" concept and was instrumental in execution of Green Nurturing program in which through Karnataka state pollution control board a link between businesses, and educational institutions was made and implemented in 100 schools in Mysore.

She has assisted hundreds of industries in establishment, implementation, maintenance and certification to various international standards related to Quality, Environment, Energy, Food safety, Occupational health and safety and asset management.

Her most recent endeavour is the creation of ESG strategies, Sustainability reports, carbon reports, water audits, and community research initiatives.

She began her work almost two decades ago as an HSE consultant before moving on to become a lead assessor with CII-ITC for Sustainability Award and CAHO co chair on Research mentoring program and is a qualified Lead auditor for EOHS management system, Energy management system, Green Co facilitator with CII and CAP 2.0 Assessor.



Ms. Keerthi D Souza

**Dr. Sadashiva Murthy B.M.**, works as Professor and Head in the Department of Environmental Engineering, received his Bachelor of Engineering in Civil Engineering from SJCE Mysore, University of Mysore during the year 1989, Master of Technology in Environmental Engineering from SJCE, Mysore In the year 1993, Post Graduate Diploma in Environmental Planning (PGDEP) in the year 1993 from Institute of Development Studies (IDS), University of Mysore and Ph.D. (Civil Engineering Sciences) from Visvesvaraya Technological University, Belgaum during the year 2010.

His areas of specialization are Solid and Hazardous Waste Management, Pollutant Transport, Ground Water Modelling, Water Quality Monitoring.

He has worked as Expert Committee member in various Government organizations.

He has authored a book which was an outcome of his PhD work. He has also worked for projects funded by UGC. He has visited many countries for presentation of technical papers and chairing the session in conferences. He is a Fellow of Institution of Engineer's India, Associate Member ASCE, Member International Water Association and many other Professional bodies.

Currently the Executive Committee member for IWA, India Chapter, Committee Member for Institution of Engineer's India, Mysore Local Centre.



Dr. Sadashiva  
Murthy B.M

Signature Not Verified

SOKKALINGAM ARUMUGAM DHANARAJ  
CN=SOKKALINGAM ARUMUGAM DHANARAJ  
SERIALNUMBER=09c71k7430050420130b07d66ea45d76c824f  
43c67a40682991420957ae55k=thattana, PostalCode=570006  
Phone=6082dc6a97e7c1a62b98711dd89f891c53c6e925c3ca1  
b465469e38bd65809\_OU=REGISTRAR, O=JSS SCIENCE AND  
TECHNOLOGY UNIVERSITY, C=IN

01.02.2024 19:39

Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions, Uthara  
Mysuru - 570 006, Karnataka

Professor & Head  
Department of Environmental Engineering  
Sri Jayachamarajendra College of Engineering  
JSS Science and Technology University  
MYSURU-576 006





**Sub: Constitution of JSS S&TU-SCA working group for offering Joint Academic programmes with SCA.**

As per the approval of the Vice Chancellor, JSS Science and Technology University has constituted the JSS S&TU-SCA Working group as per the MoU Signed with Schevaran Cleanfix Academy (SCA) of Cleaning Sciences Pvt. Ltd, Mysuru with an objective to deduce the framework for offering joint academic programmes at JSS S&TU and run the programmes under the Department of Construction Technology and Management. Hence this order.

**ORDER NO.: REG/ 42 /JSSSTU-SCA /2020-21/ Dated: 07.10.2020**

Following are the approved Constitution of Members of JSS S&TU-SCA Working group.

The Member Convener of the working group is requested to conduct the meetings with the members of SCA and outcome of the meeting may kindly be recommended to the University. The term of office of members of this working group will be till the term of the MoU.

**JSS STU-SCA Working group**

| Sl. No. | Name and Details                                                                                                                | Designation        |
|---------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1.      | Dr. G.P.Chandradhara<br>Professor and HOD<br>Department of Construction Technology and Management,<br>JSS S&TU, Mysuru-570 006  | Member<br>Convener |
| 2.      | Dr. S. P. Shivaprakash<br>Associate Professor<br>Department of Information Science and Engineering,<br>JSS S&TU, Mysuru-570 006 | Member             |
| 3.      | Ms. Savitha Ulavi<br>Associate Professor<br>Department of Environmental Engineering,<br>JSS S&TU, Mysuru-570 006                | Member             |

*Chami*  
 Registrar

**To :**

1. Dr. G.P. Chandradhara, HoD, CTM
2. Dr. S.P. shivaprakash, Associate Professor, ISE
3. Ms. Savitha Ullavi, Associate Professor, Env. Engg.
4. Office Copy

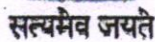
**Copy submitted to :**

The Chancellor, JSS S&T University and the President, JSS Mahavidyapeetha, Mysuru

1. Executive Secretary, JSS MVP, Mysuru – For kind information
2. Advisor, TED, JSS MVP, Mysuru. – For kind information
3. Vice Chancellor, JSS STU – For kind information
4. Principal, SJCE

*Chami*  
**Professor & Head**  
 Department of Environmental Engineering  
 Sri Jayachamarajendra College of Engineering  
 JSS Science and Technology University  
 MYSURU-570 006.





## INDIA NON JUDICIAL

**Government of Karnataka**

### e-Stamp

|                           |                                                |
|---------------------------|------------------------------------------------|
| Certificate No.           | : IN-KA66442579488397T                         |
| Certificate Issued Date   | : 04-Mar-2021 01:50 PM                         |
| Account Reference         | : NONACC (FI)/ kacrsf108/ MYSORE SOUTH4/ KA-MY |
| Unique Doc. Reference     | : SUBIN-KAKACRSFL0809283022151198T             |
| Purchased by              | : JSS SCIENCE AND TECHNOLOGY UNIVERSITY MYSORE |
| Description of Document   | : Article 37 Note or Memorandum                |
| Description               | : MOU                                          |
| Consideration Price (Rs.) | : 0<br>(Zero)                                  |
| First Party               | : SHEVARAN CLEAN FIX ACADEMY MYSORE            |
| Second Party              | : JSS SCIENCE AND TECHNOLOGY UNIVERSITY MYSORE |
| Stamp Duty Paid By        | : JSS SCIENCE AND TECHNOLOGY UNIVERSITY MYSORE |
| Stamp Duty Amount(Rs.)    | : 200<br>(Two Hundred only)                    |



Please write or type below this line

## JOINT- IMPLEMENTATION AGREEMENT

## BETWEEN

**SCHEVARAN-CLEANFIX ACADEMY (SCA) OF CLEANING SCIENCES PVT. LTD.,**

AND

**JSS SCIENCE AND TECHNOLOGY UNIVERSITY  
FOR OFFERING FACILITY MANAGEMENT- TRAINING  
PROGRAMME**

This deed of Facility Management Training Programme Joint Implementation Agreement made and entered into on this Fifth day of March 2021 at Mysore by and between:

Signature Not Verified

**Statutory Alert:**

1. The authenticity of this Stamp certificate should be verified at [www.stampcertificates.com](http://www.stampcertificates.com) or by downloading the Mobile App of Stock Holding Corporation of India Ltd. Any discrepancy in the details on this Certificate and as available on the website of the Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.
- Stamp Certificate No. SC-01/2024  
Serial Number: 09c71c743d00504a6e03100f7df6ea5d78324ff  
Issued On: 02 April 2024  
Valid Until: 02 April 2029  
Issued By: Technology University, Chennai

Page 1 of 8

JSS Technical Institutions Group  
Mysuru - 570 006, Karnataka



int Implementation  
21 at Mysore by and



**SCHEVARAN-CLEANFIX ACADEMY (SCA) OF CLEANING SCIENCES PVT. LTD., (CIN: U74999KA2019PTC126009)** having its principal place of business at No.427/B, Hebbal Industrial Area, Mysore 570016 and represented by its Managing Director Mr Sam Cherian.K, which has been established to provide skill based educational training courses to individuals & Corporates (hereinafter referred to as "SCA", which term shall unless repugnant to its context mean and include its affiliates, successors, representatives and permitted assigns) of the First Part;

**AND**

**JSS Science & Technology University (JSS STU)**, established under JSS Science and Technology University Act No.43 of 2013 of Government of Karnataka, having its registered office at JSS Technical Institutions Campus, Mysuru (hereinafter referred to as "JSS STU" or "University"), and represented by "The Registrar", which term shall unless repugnant to its context mean and include its affiliates, successors and permitted assigns; of the Second Part; JSSSTU and SCA shall hereinafter be referred to as such or collectively as "Parties" and individually as "Party".

**PREAMBLE:**

WHEREAS JSS STU offers knowledge and skill-oriented courses/programs to student as part of its curriculum. JSS STU also offers the same courses and other specially curated courses to industries and organizations interested in higher education of their employees/student / and recruits.

WHEREAAS SCA provides technical and non-technical education & skilling programs to individuals, corporate organisations and Industry bodies with a specialised focus on Facility Management across industry segments. SCA intends to offer these programs, across geographies, through its training division, **Academy for Workplace Excellence (AWE)**.

WHEREAS both Parties after initial meeting had entered into a Memorandum of Understanding on 26<sup>th</sup> September 2020 to offer certain skill oriented courses in the full-time, part-time in the area of Facility Management and for this purpose have agreed to mutually co-operate, manage and administer the course and to this effect have agreed to deduce the terms and conditions of their understanding in this Agreement.

WHEREAS, the Parties recognize each other's competencies and hereto agree that a strategic relationship between them will benefit each other.

**NOW THIS DEED OF Facility Management Training Program Joint Implementation Agreement WITNESSTH AS UNDER:**

**A) STRUCTURE**

- 1) The Courses offered under this Agreement will be owned, designed & executed by SCA- **Academy for Workplace Excellence (AWE)** and implemented in association with Construction Technology and Management



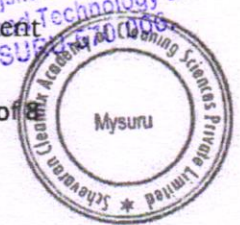
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SCIENCE & TECHNOLOGY  
UNIVERSITY  
MYSURU

*[Handwritten Signature]*  
Dean - Research & Technology  
JSS Science & Technology University  
JSS Technical Institutions Campus  
Mysuru - 570 006, Karnataka

Signature Not Verified

**JSS**  
SCIENCE & TECHNOLOGY  
UNIVERSITY  
MYSURU  
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Department of JSS STU, and conducted under the aegis & regulations of JSS STU.

- 2) SCA has set up **Academy for Workplace Excellence** with a mandate to create Courses & Conduct Training Programs in Facility Management as its intellectual property. The Courses & Programs are meant for fresh entry level students and working professionals. The Training Programs will be offered jointly by SCA and JSS STU. The Study programs will be conducted in the name and style of JSSSTU&AWE.
- 3) Training Programs and short term courses so created shall be geared for knowledge & skill transfer, job-oriented and designed to improve the efficiency & earning capacity of the student whether it is a fresher or working professionals
- 4) An indicative list of the Academic Training Programs to be conducted in association with JSSSTU as mutually agreed upon between parties herein is as under;
  - a) COURSES APPROVED for introduction in 2021;
    - i) A Certificate course in Health Care Facility Management
    - ii) A Certificate Course in Engineering services – Facility Management
    - iii) A Certificate Course in Housekeeping & Cleaning Sciences- Facility Management.
  - b) COURSES under consideration for introduction.
    - i) Course in Sustainability & Wellness in Facility Management
    - ii) Course in Next Generation Facility Management
    - iii) Course in Pest Control in Facility Management
    - iv) Course in Safety and Security in Facility Management
    - v) Course in Standards & Legal Compliance in Facility Management
    - vi) Diploma, Advanced Diploma in Facility Management
- 5) Parties agree that for efficient and timely day to day management and for ensuring quality of education & placement of students, there is a need for an administrative structure. With this view Parties agree as follows:

- a) A FIVE member working group (hereinafter called “WG”) will be formed with 2 members each to be nominated by First & Second Party. The other member from FM Industry and nominated by the First Party.
- b) WG members shall obtain guidance from their respective bodies meet and discuss to guide upon the following matters:
  - i. New Courses, course calendar, course fees, course structure, syllabus, course strength, grading norms, and specific infrastructure required, examinations & certification and other related matters.
  - ii. Faculty payments and other expenses which are payable or reimbursable to their respective employees or institutions.

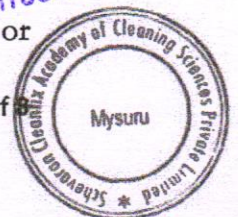


Dear Sir,  
JSS Science & Technology  
JSS Technical Institutions  
Mysuru - 570 006, Karnataka

Signature Not Verified  
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Page 3 of 8



Professor & Head  
Department of Environmental Engineering  
Sri Jayachamarajendra College of Engineering  
JSS Science and Technology University  
MYSURU-570 006.







following formula on the first and last Friday ("Designated Transfer Date") of every month (or an immediately following Bank working day). :

- a. Account will be opened by AWE with an initial Balance of rupees One lakh and this amount shall be maintained at all times. ("Minimum Balance")
  - b. **25% of the Balance** in the Escrow Account computed after excluding the Minimum Balance amount of Rupees One lakh shall be transferred on Designated Transfer Date to the credit of JSS STU towards "Collaboration Charges" as per remittance details provided in the Escrow /TRA Agreement.
  - c. Notwithstanding anything contained herein in this Agreement, Parties agree that the aforementioned Collaboration Charges shall be the aggregate of all amounts payable to JSS STU under this agreement. Collaboration Charges shall inter alia include the revenue share consideration under this Agreement, the costs of rental/reimbursement for infrastructure and necessary facilities/labs provided under this Agreement, accounting and auditing charges, conduct of exams and cost of certificate and other miscellaneous expenses.
  - d. Likewise on the Designated Transfer Date 75% of all amounts over and above Minimum Balance will be transferred to the credit of AWE as per remittance details provided in the Escrow / TRA Agreement.
- 2) Subject to the regulations and rules of the Escrow Bank, Parties agree that the Escrow /TRA account shall be a no cheque book account and there will be no other transactions other than those contemplated herein above.
  - 3) All expenses other than those covered under Collaboration Charges and essentially those that accrue to JSS STU, shall be the exclusive responsibility of AWE.
  - 4) AWE shall from time to time reimburse faculty remuneration, as may be approved from time to time at by WG.
  - 5) JSS-STU shall have the right to receive a copy of the Escrow/ TRA account Bank Statement and audit the same with reference to the students enrolled. AWE shall assist and provide JSS-STU with the relevant data required for JSS-STU to satisfy itself as regards the receipts.

#### D) MUTUAL COVENANTS

- 1) JSS STU covenants that this type, nature & structure of Program as contemplated herein above shall be exclusive to AWE in all geographies wherein JSS STU or any of its direct affiliates have a presence offering degree programs.
- 2) JSS STU covenant with AWE that the course curriculum and course content designed and developed by the AWE is an exclusive intellectual property of the AWE. JSS STU, its faculty, staff, coordinator who have access to the same



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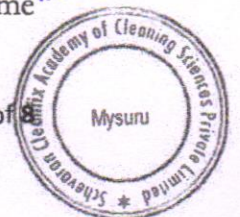
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Professor & Head  
Department of Environmental Engineering  
Sri Jayashankar College of Engineering  
JSS Science and Technology University  
MYSURU-570 006.



- 3) AWE staff members, employees, consultants associated with this Course undertake and covenant to conduct themselves in the manner as stipulated by the JSS STU at its campus and will not cause or act in any manner contrary to the same;
- 4) Parties agree to comply with statutory norms.
- 5) Parties agree to pursue and obtain approval/accreditation from National and International organizations and avail its benefits.

It has been mutually agreed between the parties that this Facility Management Course Administration and Management Agreement shall be for a period of THREE years from the date first above written subject to renewal on mutually acceptable terms.

- 1) Disputes as to lack of co-ordination etc., at the outset shall be referred to the core committee for resolution and the decision of the core committee in this regard shall be final and binding;
- 2) Disputes as to academic concerns shall be referred to Academic Council and the decision of the Academic Council in this regard will be final and binding on all the parties;
- 3) Disputes or difference of opinion on financials, fund management between the JSS STU and AWE shall be resolved with mutual discussion between JSS STU & SCA amicably.
- 4) Disputes which are not resolved with the internal disputes resolution process as stated above shall be referred to Arbitration as per Indian Arbitration Act.
- 5) Courts at Mysore shall have the exclusive jurisdiction in all cases;

It has been agreed between that the parties other than what is required to administer the course; herein that each of party will function within the agreed terms and conditions stated above and MOU entered in to between the parties herein on 26.09.2020;

It has been agreed between the parties herein that the contents of this program, design and implementation will be solely by the AWE and it is the intellectual property of SCA. JSS STU, its representatives, officials, faculty and coordinators hereby undertake to keep the contents of this agreement and course program

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TECHNOLOGY UNIVERSITY, C=IN





confidential and shall not share with any person/persons in any format other than for administering the course.

**I) SEVERABILITY**

If any provision of this agreement is held or found to unenforceable, illegal or void, all other provisions will nevertheless continue to remain in full force and effect. The parties shall nevertheless be bound to negotiate and settle a further provision to this agreement in place of the provision which is held or found to be unenforceable, illegal or void, to give effect to the original intention of the parties and which would be enforceable, legal and valid.

**J) ENTIRE AGREEMENT**

This instrument constitutes the entire agreement between the parties as to the subject matter thereof and supersedes all the previous agreements or understandings, if any, with respect thereto.

**K) AMENDMENT/VARIATION**

No amendment/variation of this agreement shall be binding on either party unless such amendment/variation is incorporated in a Schedule to this agreement and signed by the duly authorized representatives of both parties.

**L) CUSTODY**

This agreement has been made in TWO Originals and each of party shall have One Original in their custody.

**M) CONTACTS & NOTICES**

It has been agreed between the parties that the following are details of the one point contact for all communication. Any communication/notices sent by way of letter, email to this shall be legal and valid;

**For JSS STU:**

**Prof. Dr. S.A. Dhanaraj,**  
Registrar  
JSS Science and Technology University,  
JSS TI Campus,  
Mysuru, Karnataka 570006, Tel: 0821 2548294  
Email: registrar@jssstuniv.in

**For SCA:**

**Mr. Sam Cherian.K,**  
Managing Director  
Schevaran-Cleanfix Academy of Cleaning Sciences Pvt. Ltd.  
427/B Hebbal Industrial Area, Mysore – 560016, Tel: 0821 4277500  
Email: sam@schevaran.com

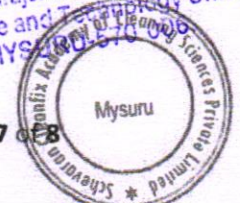


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4326744080901412204976/S.A. Dhanaraj, Registrar, JSS Science and Technology University, Mysuru  
Phone: 0821 2548294, Email: registrar@jssstuniv.in, 0821 2548294  
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Dean - Research  
JSS Science & Technology  
JSS Technical Institutions Campus  
Mysuru - 570 006, Karnataka



Professor & Head  
Department of Environmental Engineering  
Sri Jayachamarajendra College of Engineering  
JSS Science and Technology University  
Mysuru - 570 006











- Constituent College of JSS Science and Technology University
- Approved by A.I.C.T.E
- Governed by the Grant-in-Aid Rules of Government of Karnataka
- Identified as lead institution for World Bank Assistance under TEQIP Scheme



## Report on One Day Workshop on “Cyber Security: Challenges and Opportunities”

Cyber security can be described as the collective methods, technologies, and processes to help protect the confidentiality, integrity, and availability of computer systems, networks and data, against cyber-attacks or unauthorized access. The main purpose of cyber security is to protect all organizational assets from both external and internal threats as well as disruptions caused due to natural disasters.

As organizational assets are made up of multiple disparate systems, an effective and efficient cyber security posture requires coordinated efforts across all its information systems. To secure the information and to get awareness of information security and various threats for private data of each individual and career opportunities available in the field of cyber security.

To address above topics, Dept. of Computer Applications has organized One Day Workshop on “Cyber Security: Challenges and Opportunities”

Facilitators of the workshop invites industry experts from Gocybex Pvt. Ltd. Bengaluru as speakers to the workshop. The workshop was scheduled **from 26-12-2022 online-mode**. There was total four sessions.

**Session 1: Cyber Security Career and Domains / Sectors from 10.00 am to 11.30 am.**

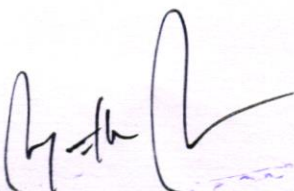
**Session 2: Cyber Security and Data Privacy from 11.45 to 1.15 pm.**

**Session 3: Cyber Security and IOT from 2.00 pm to 3.30 pm.**

**Session 4: Cyber Security Audit and Domains from 3.45 pm to 5.15 pm.**

There were around **98** number of participants for smooth conduction of the workshop.

The **Inauguration** was held on **26-12-2022 at 09:30 am** by welcoming the speakers **Dr ShubhaMangala Sunil**, Founder and CEO, Gocybex Pvt. Ltd., Bengaluru as **chief guest of the program**. Followed by a few words about workshop from **Dr. Santosh Kumar**, Vice Chancellor, JSS Science and Technology University, Mysuru.

  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
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Professor & Head  
Department of Computer Applications  
JSS Science and Technology University  
Mysuru-570006



## Screen-Shot attachment of Inauguration Function



### Session Details

The **first** session was started at 10.00 AM on “Cyber Security Career and Domains / Sectors. The topic was delivered by **Dr. ShubhamangalaSunil, Founder and CEO, GOCYBEX Pvt. Ltd., Bengaluru**. Speaker discussed a brief overview about Cyber security and its importance in the different fields and its applications with how and why the concept of cyber security is applicable in each individual data. How everyone should be aware of there private data when using the smart devices and technologies around us. It was a very interesting topicfrurther understanding the theme of the workshop and it was interactive.

The **second** session was started from 12:00 by **Dr. ShubhamangalaSunil, Founder and CEO, GOCYBEX Pvt. Ltd., Bengaluru** on **Cyber Security and Data Privacy**. The discussion was on what are the threats and challenges for the data and how the data can be secured. What measures each individual take to protect their data privacy. The session was so interactive, many participants were asking about how to **use social media**.

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JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka



Professor Head  
Department of Computer Applications  
JSS Science and Technology University  
Mysuru-570006



The **Fourth session** was continued from **3.45pm** by **Mrs. Sowmya G, Auditor and Trainer GOCYBEX Pvt. Ltd., Bengaluru**, on **Cyber Security Audit and Domains**, the speaker explained about available career options on cyber security as an audit and different domains. Domains on cyber security which can be chosen for research topic or career opportunities grabbed the participants.

**Workshop Convener:**

**Workshop Technical Head:**

**Workshop Coordinators:**

*Mark*  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka



Professor & Head  
Department of Computer Applications  
JSS Science and Technology University  
Mysuru-570006

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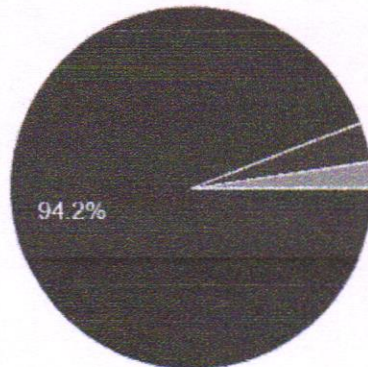
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### FEED-BACK OF WORKSHOP WAS COLLECTED USING GOOGLE FORMS

### Designation

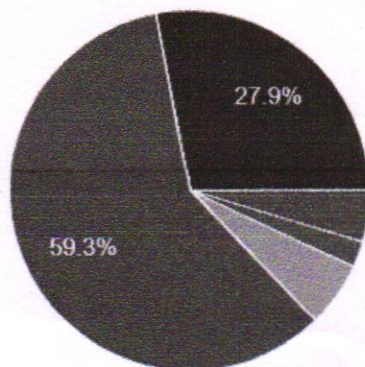
86 responses



- Student
- Faculty
- Research Scholar
- Industry Personnel

**The objectives of the workshop was met to my satisfaction**

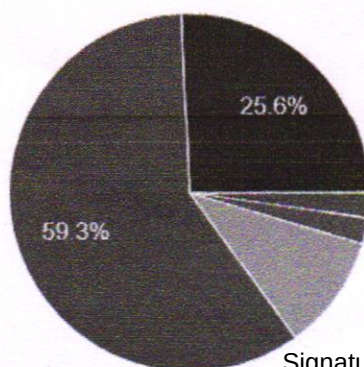
86 responses



- Strongly Disagree
- Disagree
- Neutral
- Agree
- Strongly Agree

**The topics presented were relevant to my Need**

86 responses



- Strongly disagree
- Disagree
- Neutral
- Agree
- Strongly agree

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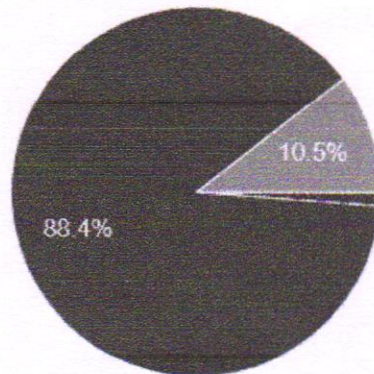
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Professor & Head  
Department of Computer Applications  
JSS Science and Technology University  
Mysuru-570006



### Given the topic, was this workshop:

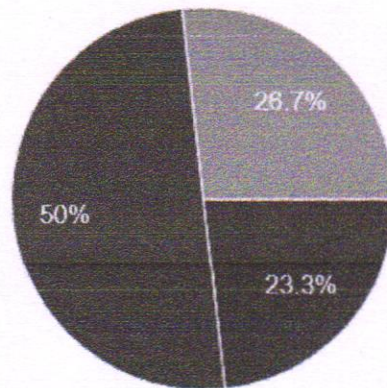
86 responses



- Too short
- Right length
- Too long

### In your opinion, was this workshop:

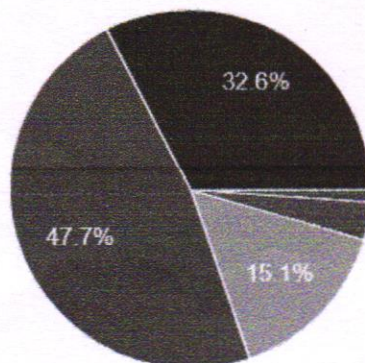
86 responses



- Introductory
- Intermediate
- Advanced

### The workshop was well paced within the allotted time

86 responses



- Strongly Disagree
- Disagree
- Neutral
- Agree
- Strongly Agree

*Hyth*  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

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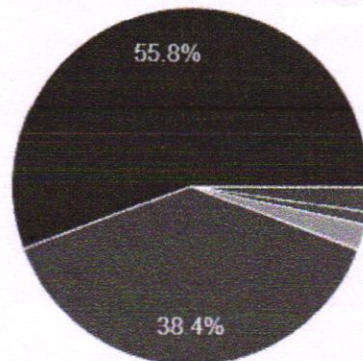
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Department of Computer Applications  
JSS Science and Technology University  
Mysuru-570006

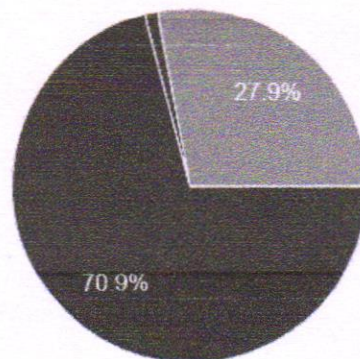


86 responses



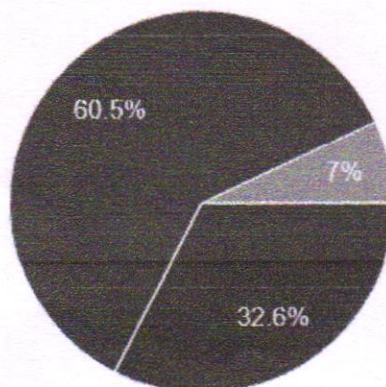
- ☐ Strongly disagree
- ☐ Disagree
- ☐ Neutral
- ☐ Agree
- ☐ Strongly Agree

86 responses



- ☐ Yes  
☐ No  
☐ Maybe

## 86 responses



- ☐ Excellent  
☐ Good  
☐ Fair  
☐ Poor  
☐ Bad

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JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

  
 Professor & Head  
 Department of Computer Applications  
 JSS Science and Technology University  
 Mysuru-570006





JSS MAHAVIDYAPEETHA

## JSS SCIENCE AND TECHNOLOGY UNIVERSITY

Sri Jayachamarajendra College of Engineering  
JSSTI Campus, Mysuru.

DIAMOND JUBILEE YEAR 1963-2023

### One Day Workshop on

## Cyber Security: Challenges and Opportunities

(ONLINE-MODE)

26th December 2022

Organized By

Department of Computer Applications

In association with



Prepare To Protect

An initiative of Global Cyber Security Response Team Pvt. Ltd., Bengaluru.

### JSS Science And Technology University

JSS Science and Technology University has been established envisioning creating a bright future and a desired learner centric eco system and transforming into a futuristic global University. JSS University is built on a strong reputation of SJCE, Mysuru, and passionately committed for providing education in Science, Technology, Engineering & Mathematics (STEM) and Management with an objective of transforming the students at all levels of higher education including research and innovation with measures to improve quality of workforce.

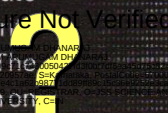


### About The Department

Department of Computer Applications has been established to design and offer courses (MCA and BCA) with the objectives of producing the best computer professionals to keep swiftness with the R & D activities in the fast-emerging field of computer applications. Ever since its initiation in 1986, the department strives to meet the computing needs of different sectors and offering specially designed courses to their students. The department always strives to provide an updated curriculum as per the changing requirements of the industry, research institutes, and academia.

### About the Workshop

The Workshop aims to stimulate the intensity and need of Cyber Security among the Students, Faculty, Research Scholars, Computer Professionals and Industry Personnel. The motivation is to educate students regarding career opportunities in the field of Cyber Security along with Data Privacy, IOT and Cyber Security audit etc. The Workshop is designed to provide both plenary and hands-on session on Cyber Security techniques and tools.





## Speakers

|                                                                                                                                                                     |                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  <b>Dr. Shubhamangala Sunil</b><br>Founder and CEO<br>GOCYBEX Pvt. Ltd., Bengaluru. | <b>Cyber Security Career and Domains / Sectors</b><br>10.00 am to 11.30 am |
|                                                                                                                                                                     | <b>Cyber Security and Data Privacy</b><br>11.45 am to 1.15 pm              |
|  <b>Mrs. Sowmya G</b><br>Auditor and Trainer<br>GOCYBEX Pvt. Ltd., Bengaluru.       | <b>Cyber Security and IOT</b><br>2.00 pm to 3.30 pm                        |
|                                                                                                                                                                     | <b>Cyber Security Audit and Domains</b><br>3.45 pm to 5.15 pm              |

## Who Can Register?

The Faculty members, Industry Personnel, Research Scholars and Students interested in pursuing research in emerging or futuristic areas of Cyber Security.

## Registration Fee

| Type of Participants         | Amount                  |
|------------------------------|-------------------------|
| Students / Research Scholars | ₹ 100 + 18% GST = ₹ 118 |
| Faculty                      | ₹ 150 + 18% GST = ₹ 177 |
| Industry Personnel           | ₹ 200 + 18% GST = ₹ 236 |

**Note: Faculty and Students / Research Scholars affiliated to JSSMVP are exempted from GST**

**\* FIRST COME FIRST SERVE BASIS \***

## Registration Details

Interested participants are requested to fill the online registration form using below link within **December 24th, 2022**

**The Registration Link :** <https://forms.gle/7JM58myfZJMdfNfG9>

**Email:** amrutha@jssstuniv.in | chaithracs@jssstuniv.in

**Contact No:** 88929 90216 | 81479 81226



## Account Details

Account Holder Name : **SJCE NON GRANT IN AID ACCOUNT**

Account Number : **7891 0101 0000 020**

IFS Code : **UBIN0578916**

Branch : **JSS TECHNICAL INSTITUTIONS CAMPUS, MYSURU**

*Dear - Research & Technology Campus*

*Signature of JSS Applications University*

## ADVISORY COMMITTEE

**Prof. A N Santosh Kumar** Vice-Chancellor, JSSSTU, Mysuru.

**Prof. S A Dhanaraj** Registrar, JSSSTU, Mysuru.

**Prof. S B Kivade** Principal, SJCE, JSSSTU, Mysuru.

## WORKSHOP CONVENER

**Dr. V N Manjunath Aradhya** Professor and Head, Department of Computer Applications, JSSSTU, Mysuru.

## TECHNICAL CHAIR

**Dr. H R Chennamma** Associate Professor, Department of Computer Applications, JSSSTU, Mysuru.

## ORGANIZING CHAIRS

**C M Amrutha** Assistant Professor, Department of Computer Applications, JSSSTU, Mysuru.

**Chaithra C S** Assistant Professor, Department of Computer Applications, JSSSTU, Mysuru.

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# NOKIA DAY REPORT

**Date of event:** November 20<sup>th</sup>, 2023

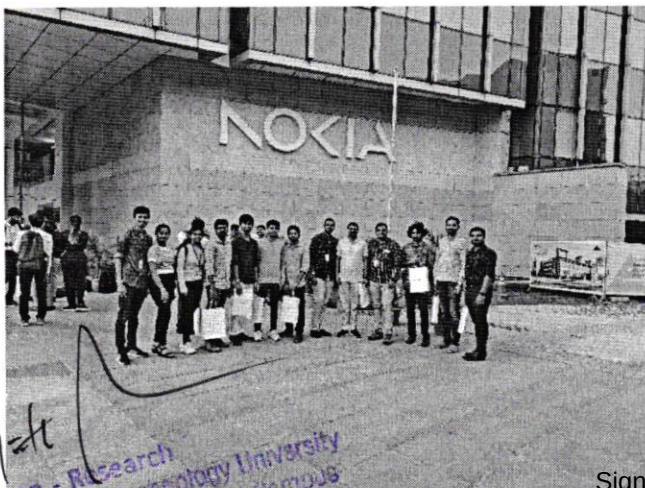
At 5:30 in the morning, a group of ten students, together with Professors Yashwanth S.D., Chandrashekar Murthy B.N., Vinayprasad M S and Madhusudan M P gathered in the college grounds before departing for Bangalore at 6:00 in a 13-seat tempo traveler.

Following breakfast, we arrived at the NOKIA campus in Bangalore by 9:30 am. There, we were warmly welcomed by the event coordinators and given visitor IDs. We were then directed to the main event hall, where the keynote address by Sathish Jamadagni, Vice President of Jio Networks India, on "6G in India" was followed by a talk on "Next Gen Potential." By Dr. Debabrata Das, Director and Professor at IIIT Bangalore.

The student Debate on Generative AI: Miracle or Menace and was moderated by Mr. Krishnamurthy T V. • The students were divided into 5 groups and taken to 5G and 6G labs, followed by Project Road shows and interactions with the HRs and the industrialists.

The Valedictory Programme began in the evening with a dance performance by college students. This was followed by the awarding of prizes to students who took part in a variety of activities, such as the dance competition, hackathon, debate, and contest for 6G test case suggestions. All of the college professors received recognition for their significant attendance and assistance.

We departed Bangalore in the evening after all the events, and headed towards Mysuru, and reached the college campus at 10:30 pm.



Signature Not Verified

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b465469e388d65809, O=REGISTRAR, O=JSS SCIENCE AND  
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Dr. U. B. MAHADEVASWAMY

B.E., M.Tech., Ph.D.

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Professor & Head  
Department of Electronics and

Sri Jayachamarajendra College  
of Engineering





## NOKIA DAY REPORT

**Date of event: November 7<sup>th</sup>, 2022**

At 5:30 in the morning, a group of ten students, together with Professors Yashwanth S.D. and Chandrashekar Murthy B.N., gathered on the college grounds before departing for Bangalore at 6:00 in a 13-seat tempo traveller.

Following breakfast, we arrived at the NOKIA campus in Bangalore by 9:30 am. There, we were warmly welcomed by the event coordinators and given visitor IDs. We were then directed to the main event hall, where the keynote address by Mr. Raghav Sahgal, President of cloud and network services NOKIA, on "Nokia's technology vision" was followed by a brief discussion on "cloud and metaverse." Mr. Vishnu Ram, a research consultant and vice chair of the ITU-T Focus group on autonomous networks, spoke next and discussed "Sandbox, Simulation, and Standards for Future Networks." The SJCE dance team was invited to perform on stage following the two talks. The student discussion on the metaverse got underway following a lovely performance by the SJCE dance team, and was moderated by Mr. Krishnamurthy TV and Dr. Bighnaraj Panigrahi. • The students were divided into 5 groups and taken to write the internship written test following a contentious debate. One of our college's students, Suyash G. Patil (7th Sem ECE), was chosen and given the opportunity to do a six-month internship in software research.

**Suyash's statements:**

The selection procedure was rather straightforward. First, we had to take an exam that included multiple-choice questions about aptitude and coding. On the basis of the test, selected students were then chosen for the technical round.

**Technical Interview:** They asked me to introduce myself before moving right into the projects I had completed. As a fellow network engineer, he was very interested in the cisco packet tracer project I had completed. He probed deeply into the subject, enquiring about every aspect of computer networks. He then inquired as to whether I was familiar with the Linux operating system, and I said that I was not, but that I would be willing to learn it if given the chance.

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**HR Interview:** usual HR inquiries, such as what inspires you and where you envision yourself in 5 years. He then stated that they may provide an internship for 3 or 6 months; I chose 6 months, from January to June.

After the event, in the late evening, they presented us the offer letters for the internships. A total of 8 students from different institutions received internships.

After the written test, students were brought back to the main hall and lunch was provided to all the guests at NOKIA. The lunch was followed by 5G networking lab visit by students, who were organized into teams, this lab visit was followed by another lab visit to the software testing lab. After the lab visits, everyone was advised to check out the student project road show which comprised of projects from many colleges in Karnataka.

The Valedictory programme began in the evening with a dance performance by college students from DSCE. This was followed by the awarding of prizes to students who took part in a variety of activities, such as the dance competition, hackathon, debate, and contest for 5G test case suggestions. All of the college professors received recognition for their significant attendance and assistance. A programme for students chosen for internships followed the Valedictory ceremony, and Suyash was given a formal offer letter. We departed Bangalore in the evening after all the events, and headed towards Mysuru, having dinner on the way and reached the college campus at 10:30 pm.



Signature Not Verified

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 CN: SOKKALINGAM ARUNACHAL DHANARAJ  
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 43c67408090841420957ae / SSK Mahatma, PostalCode=570006,  
 Phone=9620008774, Email=ssk@jssstuniv.in, O: JSS SCIENCE AND  
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 Email: mahadevaswamy@jssstuniv.in



**NBUC: Elective course to SJCE on '5G Advanced'**

2 messages

Chandrakala Mallikarjunaiah (Nokia) <chandrakala.mallikarjunaiah@nokia.com>  
To: Yashwanth S D E&C <yashwanth@sjce.ac.in>  
Cc: "Ponni K (Nokia)" <ponni.k@nokia.com>, "Rajat Duggal (Nokia)" <rajat.duggal@nokia.com>

Tue, Jan 16, 2024 at 4:09 PM

Hello Sir,

Please find the initial discussion details that we had in today's meeting to deliver the '5G Advanced' elective course to SJCE students.

| '5G Advanced' Elective course for SJCE - Minutes of Meeting, 16 January 2024 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elective course recipients                                                   | UG students, 6th Sem, ECE stream, 40 - 60 Members                                                                                                                                                                                                                                                                                                                                                                                                                |
| No. of Credits                                                               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Course Start                                                                 | 2nd Week of Feb 2024                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Course End                                                                   | Tentatively end of June 2024                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Course Day/Hrs/Timings                                                       | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Course Content                                                               | Content to be worked by Rajat and share with the College by 25th Jan                                                                                                                                                                                                                                                                                                                                                                                             |
| Problem Statements                                                           | <p>*Nokia to provide the problem statements</p> <p>*Evaluation and co-mentoring to be done by the college, in case we have the problem statements</p> <p>***We will evaluate the scenario and take a call either to offer the assessments or problem statements or both., based on the student interest and availability, after few classes of theory sessions</p>                                                                                               |
| Nokia's Expectation from College                                             | <p>*Faculty participation in the course is mandatory for every theory class to ensure students discipline &amp; active participation</p> <p>*Attendance to be tracked by college faculty and shared to Nokia post every session</p> <p>*Attendance minimum criteria is 85% per student and per session</p> <p>*Nokia to provide the assessments question paper</p> <p>*Tests/Internal Assessments evaluation to be handled by college</p>                        |
| Nokia's contribution for Elective course                                     | Expert coaching on the technical topics                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Attendance maintenance                                                       | The designated college SPOC to maintain the attendance and submit to Rajat at the end of this course                                                                                                                                                                                                                                                                                                                                                             |
| Nokia SPOCs                                                                  | <p>rajat.duggal@nokia.com, 8884062951 (For the course content and speakers coordination)</p> <p>chandrakala.mallikarjunaiah@nokia.com, 8884111843 (For all the logistical aspects)</p>                                                                                                                                                                                                                                                                           |
| SJCE SPOCs                                                                   | Prof. Yashwanth                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TO DO                                                                        | <p>*Whatsapp group creation : Chandrakala (CK), will create the group once the college SPOCs name, students names and the mobile numbers are provided for all the official communications</p> <p>*Nokia's confirmation on course delivery (Speakers / Days / Hrs) to be done by 25th Jan</p> <p>*College to shortlist 20 final students list for this elective course</p> <p>*College to Share final students details with Rajat and CK by end of this month</p> |

**Dr. U. B. MAHADEVASWAMY**  
B.E., M.Tech., Ph.D.  
**Professor & Head**  
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Email: mahadevaswamy@sjce.ac.in

01.02.2024 19:39

JSS Science & Technology University  
Mysuru - 576 006, Karnataka



## Request for Elective Course

3 messages

Yashwanth S D E&C <yashwanth@sjce.ac.in>

Sat, Jan 13, 2024 at 9:42 AM

To: "Mallikarjunaiah, Chandrakala (Nokia - IN/Bangalore)" <chandrakala.mallikarjunaiah@nokia.com>

I trust this email finds you well. I am reaching out to explore the possibility of incorporating an elective course(Advance 5G) offered by your esteemed organization as part of our academic curriculum, in accordance with the Memorandum of Understanding (MoU) between JSS Science and Technology University and Nokia Solutions and Networks India Private Limited. I am confident that this collaboration would be mutually beneficial, enhancing the educational experience for students while providing Nokia with an opportunity to actively engage with the academic community. Thank you for considering my request. I look forward to the possibility of working together to make this elective course a valuable addition to our curriculum.

*Thanks and Regards,*

**Yashwanth S D**

**Assistant Professor,**

Department of Electronics and Communication,

Sri Jayachamarajendra College of Engineering,

JSS Science and Technology University,

Mysuru-570 006.

Karnataka, India.

Mobile: +919738006421

+919739702501

E-mail: yashwanth@sjce.ac.in

yashwanth@jssstuniv.in

Chandrakala Mallikarjunaiah (Nokia) <chandrakala.mallikarjunaiah@nokia.com>

Tue, Jan 16, 2024 at 2:40 PM

To: Yashwanth S D E&C <yashwanth@sjce.ac.in>

Cc: "Rajat Duggal (Nokia)" <rajat.duggal@nokia.com>

Hello Sir,

As per our discussion on this topic, we would be happy to deliver the Elective course on '5G Advanced' to SJCE students.

Let us have a short call to discuss further on this and the ways to proceed.

Best Regards,

Chandrakala Mallikarjunaiah

Project Manager,

Signature Not Verified



*Dr. U. B. Mahadevaswamy*  
**Dr. U. B. MAHADEVASWAMY**  
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**Professor & Head**  
Department of Electronics and  
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of Engineering  
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**NOKIA**

Date: 18/09/2018

TO WHOMSOEVER IT MAY CONCERN

Phone : +91-124-4504000

Fax : +91-124-4504999

Nokia Solutions and Networks India Pvt. Ltd.

(formerly known as Nokia Siemens Networks Pvt. Ltd.)

Manyata Embassy Business Park, Outer Ring Road, Nagavara Crossing, Hebbal

Bangalore - 560045

Karnataka, India

Corp Identity No.  
U72900DL2006PTC155149

This is to state that, the following professors of JSS Science and Technology University (Formerly SJCE) have visited our industry on 25th of September 2018 along with their students of 7th semester ECE. There were about 45 students (names in the attached list) belonging to different sections of 7th semester Bachelor of Engineering on this day. The students and staff were accompanied by our team of Engineers and taken along the different facilities of Nokia. The students and staff were explained with the range of technologies and products developed by Nokia and their use in telecom networks worldwide, the working culture and the qualities to be inculcated by a budding Engineer to join an industry of this kind. They keenly participated in this event and all the queries raised by the students were convincingly answered by our colleagues. We hope that this visit was very useful to both faculties and students. We expect this kind of industry interaction in the future as well. Professors who attended this are as listed below:

- Asst. Prof. Yashwanth S D
- Asst. Prof. Puneeth K M
- Asst. Prof. Chandrashekar Murthy B N
- Asst. Prof. Thyagaraja Murthy A

Yours sincerely



Ponni K

Head of University Collaboration, Head of Telco Cloud DC and SRN

Mobile Networks

Nokia Bangalore

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Eros Corporate Tower Level

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110019, India

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SERIALNUMBER=09C71C7430000143300F706ea45d76c824f  
43c674080905414209578e/S... Mysuru, PostalCode=570006,  
Phone=6500058784, c=IN, o=JSS SCIENCE AND  
b485489e38d465809, OU=REGISTRAR, O=JSS SCIENCE AND  
TECHNOLOGY UNIVERSITY, CN  
01.02.2024 19:39

  
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**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.



The students who attended this industrial visit to Nokia facility, Bangalore are listed below:

| Sl. No. | Name                  | USN        | Section |
|---------|-----------------------|------------|---------|
| 1.      | MEGHANA P             | 4JC15EC058 | A       |
| 2.      | VINAYKUMAR M K        | 4JC15EC120 | A       |
| 3.      | ANANYA M B            | 4JC15EC009 | A       |
| 4.      | RUTHUJA S URS         | 4JC15EC082 | A       |
| 5.      | NISARGA N C           | 4JC15EC065 | A       |
| 6.      | VINEET VEERESH KIRAGI | 4JC15EC121 | A       |
| 7.      | VARDHINI V HEBBALLI   | 4JC15EC110 | A       |
| 8.      | MURALI RAMU           | 4JC15EC060 | A       |
| 9.      | DIVYA N SAHETYA       | 4JC15EC029 | A       |
| 10.     | SUJITH KUMAR V        | 4JC15EC127 | A       |
| 11.     | K.SOWMYA              | 4JC15EC040 | A       |
| 12.     | SOHAN N               | 4JC15EC101 | A       |
| 13.     | K SANJAY NAYAK        | 4JC15EC039 | A       |
| 14.     | SWASTHIK B            | 4JC15EC105 | A       |
| 15.     | SAVITHA ACHARYA N     | 4JC15EC089 | A       |
| 16.     | VIDYUTH S D           | 4JC16EC422 | A       |
| 17.     | BHARATH V N           | 4JC15EC019 | A       |
| 18.     | VAISHNAVI M           | 4JC15EC109 | A       |
| 19.     | SRIHARI H N           | 4JC16EC103 | A       |
| 20.     | SAI RISHAB H S        | 4JC15EC083 | A       |
| 21.     | RAKESH D S            | 4JC16EC413 | A       |
| 22.     | NAGENDRAPRASAD S      | 4JC15EC062 | A       |
| 23.     | ANURAG K S            | 4JC15EC012 | A       |
| 24.     | JNANESH KUMAR S       | 4JC15EC038 | A       |
| 25.     | BHEERAPPA WAGE        | 4JC16EC403 | A       |
| 26.     | MANASA B              | 4JC15EC052 | A       |

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|     |                          |            |   |
|-----|--------------------------|------------|---|
| 27. | MENITA MAHESHKUMAR PATIL | 4JC15EC059 | A |
| 28. | RACHANA M                | 4JC15EC073 | A |
| 29. | AKSHATHA O KATTIMANI     | 4JC15EC007 | A |
| 30. | MURUGENDRA BANDRAD       | 4JC15EC061 | B |
| 31. | TEJAS K B                | 4JC15EC107 | B |
| 32. | MAHESH MURGOD            | 4JC15EC049 | B |
| 33. | PAVANKALYAN K            | 4JC15EC068 | B |
| 34. | SUMEDHA S                | 4JC15EC132 | B |
| 35. | VENKATESH PRASAD         | 4JC15EC116 | B |
| 36. | VEMULAJASWANTH KRISHNA   | 4JC15EC114 | B |
| 37. | MUTHU KUMAR R            | 4JC15EC129 | B |
| 38. | SHASHANK RAO M           | 4JC15EC092 | B |
| 39. | ANAGHA C                 | 4JC15EC136 | B |
| 40. | RONAK                    | 4JC15EC080 | B |
| 41. | HEMANTH KUMAR B S        | 4JC15EC034 | B |
| 42. | ABHISHEK P               | 4JC16EC400 | B |
| 43. | SUBRAMANYA G C           | 4JC15EC104 | B |
| 44. | VIVEK M                  | 4JC15EC122 | B |
| 45. | NIHARIKA U H             | 4JC15EC064 | B |

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 Associate Professor  
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## Tech Talk Report

**Date:** April 29th, 2019

**Venue:** CS/IS Seminar Hall, JSS TI Campus

### Topics Covered:

1. 5G
2. Networking / IP Fundamentals
3. Machine Learning
4. Analytics
5. Optics

### Session Overview:

The Tech Talk organized by Nokia experts on April 29th, 2019, at the CMS Seminar Hall, JSS TI Campus, was a dynamic exploration of key technologies shaping the telecommunications landscape. With a focus on 5G, Networking/IP Fundamentals, Machine Learning, Analytics, and Optics, the event aimed to provide insights into the latest advancements and industry trends.

### Key Highlights:

**5G:** In-depth exploration of the principles and capabilities of 5G technology. Discussion on the evolution from previous generations to 5G and its potential impact on various industries. Insights into the technical aspects of 5G networks, including speed, latency, and connectivity.

**Networking / IP Fundamentals:** Comprehensive overview of networking fundamentals and IP protocols. Discussion on the basics of data transmission, network architecture, and the role of IP in modern communication systems. Emphasis on the importance of robust networking foundations for efficient and reliable communication.

**Machine Learning:** Introduction to the applications and principles of machine learning in the telecommunications domain. Exploration of how machine learning algorithms can enhance network management, optimization, and predictive analytics. Real-world examples demonstrating the impact of machine learning on improving network performance.

**Analytics:** Discussion on the role of analytics in extracting meaningful insights from vast amounts of data. Exploration of analytics tools and techniques for optimizing network performance, identifying trends, and making informed decisions. Case studies showcasing successful implementations of analytics in the telecommunications industry.

**Optics:** Overview of optical communication technologies and their significance in modern telecommunications. Exploration of the role of optics in enhancing data transmission speed, bandwidth, and overall network efficiency. Discussion on the latest advancements in optical technologies and their potential applications.

**Session Duration:** Each session was thoughtfully crafted and delivered within a span of 1.5 hours.

*[Signature]*

Signature Not Verified



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SERIALNUMBER=09c71c7430050421d3f0bf7df6ea45d76c82

  
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 [www.jssstuniv.in](http://www.jssstuniv.in)



**Audience Engagement:**

The seminar attracted a diverse audience, including students, professionals, and enthusiasts eager to deepen their understanding of cutting-edge technologies. The interactive nature of the sessions allowed participants to engage with Nokia experts, asking questions and gaining valuable insights.

**Conclusion:**

The Nokia Tech Talk on April 29th, 2019, served as an invaluable platform for participants to delve into the realms of 5G, Networking/IP Fundamentals, Machine Learning, Analytics, and Optics. The event not only provided theoretical knowledge but also fostered a practical understanding of how these technologies are reshaping the telecommunications landscape. The engaging presentations and discussions contributed to a rich learning experience for all attendees.

| Emerging Tech Talk    |                              |                                   |              |                                          |
|-----------------------|------------------------------|-----------------------------------|--------------|------------------------------------------|
| DATE                  | TOPIC                        | TIMINGS                           | DURATION     | SPEAKER NAME                             |
| NIE & SJCE, Apr 129th | 5G                           | 9:00 AM --10:00 AM & 15 MIN Q&A   | 1Hour 15 Min | Chowdary, Tayyaba (Nokia - IN/Bangalore) |
|                       | Networking / IP Fundamentals | 10:15 AM -- 11:15 AM & 15 MIN Q&A | 1Hour 15 Min | Kp, Maneesh (Nokia - IN/Bangalore)       |
|                       | Machine Learning             | 11:30 AM -- 12:30 PM & 15 MIN Q&A | 1Hour 15 Min | Kandkur, Suma (Nokia - IN/Bangalore)     |
|                       |                              | LUNCH_ 12:45 PM--1:30 PM          |              |                                          |
|                       | Analytics                    | 01:30 PM -- 02:30 PM & 15 MIN Q&A | 1Hour 15 Min | As, Nanda (Nokia - IN/Bangalore)         |
|                       | Optics                       | 02:45 PM -- 03:45 PM & 15 MIN Q&A | 1Hour 15 Min | Kumar, Sumit 2. (Nokia - IN/Bangalore)   |

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## Report on 'Backhaul Transport' Webinar for JSS STU Students

Date: April 29, 2022

Venue: Online

Organizer: Nokia

Participants: Students from JSS STU

### Summary:

On April 29, 2022, Nokia hosted an exclusive webinar on 'Backhaul Transport' for students from JSS STU. The webinar aimed to delve into the vital aspects of backhaul transport within the framework of contemporary telecommunications networks.

### Agenda:

#### I. Introduction to Backhaul Transport:

- Overview of telecommunications networks
- The role of backhaul transport in network architecture
- Importance of efficient backhaul for seamless communication

#### II. Emerging Technologies in Backhaul:

- Fiber-optic backhaul
- Satellite backhaul
- 5G and its impact on backhaul requirements

#### III. Network Design and Optimization:

- Planning and designing backhaul networks
- Case studies showcasing successful backhaul implementations

#### IV. Nokia's Contribution to Backhaul Solutions:

- Overview of Nokia's backhaul technologies
- Real-world examples of Nokia's backhaul deployments

#### V. Q&A Session:

- Interaction with students
- Addressing queries related to backhaul transport

#### Key Takeaways:

*Vanishri*

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**Understanding Backhaul Significance:** The webinar highlighted the critical role of backhaul transport in ensuring the efficiency and reliability of telecommunications networks.

**Technological Advancements:** Participants gained insights into the latest technologies such as fiber-optic backhaul, microwave backhaul, and satellite backhaul, along with their applications in various scenarios.

**Network Optimization Strategies:** The session provided valuable information on planning, designing, and optimizing backhaul networks to enhance overall network performance.

**Industry Perspective:** Nokia's presentation shed light on the company's contributions to backhaul solutions, offering students a glimpse into real-world applications and success stories.

**Feedback and Participation:**

The session saw enthusiastic participation from JSS STU students during a lively Q&A session. Feedback received was overwhelmingly positive, with participants expressing appreciation for the informative content and the opportunity to interact with industry experts.

**Conclusion:**

'Backhaul Transport' webinar proved to be an insightful and enriching experience for JSS STU students, providing a comprehensive understanding of the pivotal role backhaul plays in modern telecommunications networks. The event effectively bridged the gap between academic knowledge and industry applications, enhancing the overall educational experience for the participants.

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**Our Vision**

**Modernizing the curriculum**  
 Influencing the university engineering curriculum  
 with latest Nokia technologies

**Upskilling the talent pool**  
 Nokia technologies guest lectures  
 Experiential learning in Nokia telecom Labs  
 Nokia elective course  
 Nokia mentored research projects  
 implementation

**Finishing school**  
 Campus to corporate  
 Internships to students  
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**Emerging  
 Technology  
 Webinar  
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In collaboration with  
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NOKIA BANGALORE  
 UNIVERSITY COLLABORATION

**NOKIA**



**Gayathri Tadas**  
 System Specification Engineer



**Rajat Duggal**  
 System Specification Engineer

|          |                                        |
|----------|----------------------------------------|
| Date     | 29 Apr 2022                            |
| Topic    | 'Backhaul Transport'                   |
| Speakers | Ms. Gayathri Tadas<br>Mr. Rajat Duggal |
| Time     | 5:00 pm – 6:30 pm                      |

[Click here to join the meeting](#)

Contact Us [universitycollaboration.blr@nokia.com](mailto:universitycollaboration.blr@nokia.com)



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## FACULTY DEVELOPMENT PROGRAM ON

## LEARN AND EXPERIENCE THE FLAVORS OF ADVANCED 5G

**Date:** 24/07/2023 to 28/07/2023

**Venue:** L5 Building, Manyata Tech Park, Outer Ring Road, Nagawara, Bangalore - 560045

**Organizer:** Nokia Solutions and Networks Pvt Ltd

## Introduction

The 5G Evolution and Emerging Technologies Faculty Development Programme (FDP) was designed to improve the knowledge and experience of faculty members from various educational institutions in the field of telecommunications and wireless networks. The FDP was aimed at providing participants with a thorough grasp of the core ideas and sophisticated technologies associated with 5G, as well as insight into the impending 6G technology. 5G evolution, IMS Call flow and VoLTE call flow, 5G radio resource controller, 5G core network, lab visit for hardware and cable connectivity, cloud RAN, ORAN, transports in mobile networks, network slicing, AI/ML in 5G, 5G security, and an introduction to 6G were among the topics covered.

## Day 1: 5G Evolution

The first day of the FDP focused on understanding the evolution of mobile networks from the early generations to 5G. we learned about the essential characteristics and requirements of 5G, such as increasing data throughput, reduced latency, huge connectivity, and network slicing. The session focused on the distinctions between 5G and its predecessors, offering insight on how 5G hopes to rectify the inadequacies of previous generations through 5G use cases.

## Day 2: 5G Radio Resource Controller and Core Network

On the second day, we learned about the 5G radio resource controller and core network. Members of the faculty learned about radio access technologies including millimeter-wave (mm Wave) and massive MIMO, which are critical for attaining high data rates and increased network capacity in 5G. The 5G core network architecture, which enables network slicing, edge computing, and support for a wide range of applications and services, was also

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## Day 3: Cloud RAN and Transports in Mobile Networks

The third day focused on cloud radio access networks (RAN) and the role of transport networks in mobile communications. We explored the advantages of cloud RAN, such as centralized processing, improved resource utilization, and higher flexibility. The seminar on mobile network transports discussed various backhaul and fronthaul technologies that allow effective data transmission and reduced latency in 5G networks.

## Day 4: Network Slicing and 5G Security

The fourth day of the Programme focused on two essential features of 5G networks: network slicing and security. We acquired a thorough grasp of network slicing, which allows for the division of a single physical network into many virtual networks to meet the demands of various applications and sectors. The security session discussed different security obstacles in 5G, such as privacy concerns, authentication issues, and cyber threat defense.

## Day 5: Introduction to 6G

The final session of the FDP included an introduction to 6G technology, which gave a fascinating overview into the future of wireless communications. We learnt about prospective use cases, research obstacles, and the basic distinctions between 5G and 6G. Discussions centered on the anticipated increases in data speeds, latency, and dependability, which would pave the way for disruptive applications and innovations.

## Conclusion

The Faculty Development Programme on 5G Evolution and Emerging Technologies offered us with an educational experience, equipping them with a thorough awareness of the most recent developments in the telecommunications sector. We learned about the progress of the 5G ecosystem, essential technologies, security issues, and the possibilities of network slicing. Furthermore, the launch of 6G fueled excitement and hope for the future of cellular communications. The Programme finished with participants thanking the organizers and speakers for putting on an informative and well-structured FDP. The knowledge gained from this FDP is expected to be beneficial for both faculty members and our students, as we can now contribute to cutting-edge research, foster innovation, and prepare the next generation of professionals for the challenges and opportunities presented by 5G and beyond.

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**Tech Talk by Nokia Experts at JSS TI Campus - March 16, 2018**

**Venue:** CMS Seminar Hall, JSS TI Campus

**Topics Covered:**

**Software Engineering:**

1. Industry Perspectives
2. Software Engineering Phases and Important Activities
3. Technical Debt Management

**Software Testing:**

1. Key Points on Software Testing
2. Testing Types and Details
3. Test Metrics
4. Importance of Testing
5. Test Automation and Its Benefits
6. Test Tools and Languages
7. Quality Aspects of Testing

**Network Security:**

1. Current Internet Trends
2. Telecom Network Security Complexity
3. Basic OS Hardening Concepts
4. Password Protection from Hackers
5. Firewall Hardening

**LTE:**

1. Overview of 2G/3G Architecture
2. Evolution of LTE Architecture from 3G
3. OSI Reference Model Telecom Layer Model
4. LTE Network Architecture
5. Introduction to LTE Interfaces
6. Protocols Structure

**IMS (IP Multimedia Subsystem):**

**IMS Elements**

1. IMS Architecture
2. IMS Registration
3. Interfaces
4. Example Call Flow Scenarios

**IoT (Internet of Things):**

1. Hype, Then and Now
2. Reshaping Business Models using IoT
3. Improving Personal Life through IoT
4. Optimizing Business Processes with IoT

**Session Duration:** Each session was held for 1.5 hours

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**Overview:**

The Tech Talk hosted by Nokia experts on March 16th, 2018, at the CMS Seminar Hall, JSS TI Campus, was a comprehensive exploration of various cutting-edge technologies in the field of telecommunications and software engineering. The event attracted a diverse audience of 120 participants, and each session covered a specific domain by a seasoned speaker from Nokia.

**Key Takeaways:**

**Software Engineering by Shruthi:** Explored industry perspectives in software engineering. Detailed software engineering phases and crucial activities. Emphasized the importance of managing technical debt.

**Software Testing by Prashanth:** Covered key aspects of software testing, including types and metrics. Highlighted the significance of testing and its automation. Discussed various test tools, languages, and quality aspects.

**Network Security by Vidyavati Mallappa:** Discussed current internet trends and telecom network security complexity. Introduced basic concepts of OS hardening and password protection. Explored firewall hardening for enhanced security.

**LTE by Ravi Gangdhara:** Provided an overview of 2G/3G architecture and the evolution of LTE. Explained OSI reference model and LTE network architecture. Delved into LTE interfaces and protocol's structure.

**IMS by Maneesh K P:** Covered essential elements of IMS and its architecture. Explored IMS registration, interfaces, and illustrated example call flow scenarios.

**IoT by Rohith A K:** Explored the evolution and impact of IoT, from hype to practical applications. Demonstrated how IoT is reshaping business models and improving personal lives. Highlighted the optimization of business processes through IoT implementations. The seminar provided a unique opportunity for participants to gain insights into the latest trends and advancements in software engineering, testing, network security, LTE, IMS, and IoT. The diverse range of topics and experienced speakers made the event enriching and informative for all attendees.

**Participant Engagement:** The Tech Talk attracted a diverse audience of 120 participants, including students, faculty members, and professionals from the technology sector. The interactive sessions allowed participants to engage with the Nokia experts, posing questions and gaining a deeper understanding of the discussed topics.

**Conclusion:** The Tech Talk by Nokia experts at JSS TI campus on March 16, 2018, proved to be a valuable opportunity for participants to stay updated on the latest trends and advancements in technology. The event fostered knowledge exchange and provided a platform for networking among technology enthusiasts, further enriching the tech community at JSS TI campus.

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## "Workshop on 5G Evolution"

**Date:** 18th, 19th March & 25th, 26th March, 2021

**About the Workshop:** This unique workshop, offered by Nokia, transcended theoretical knowledge by providing a platform for academicians and postgraduates to: Bridge the gap between theory and practice: Hands-on virtual simulations and interactive sessions solidified understanding of complex concepts. Learn from industry experts: Renowned R&D professionals from Nokia shared their expertise and real-world insights. Gain a holistic perspective: The workshop encompassed the entire spectrum, from fundamental principles to cutting-edge advancements in 5G. Experience the power of innovation: By understanding how Nokia shapes the future of communication technologies, participants gained valuable inspiration for their own endeavours. By attending this workshop, participants not only mastered the intricacies of LTE/5G technologies but also gained a valuable understanding of how these groundbreaking advancements are transforming the way we connect and interact with the world around us.

### Program Outcome:

This intensive workshop equipped participants with a profound understanding of LTE/5G technologies and their practical applications. By the end, they could:

**1. Demystifying System Architecture:** Wireless Fundamentals up to Evolution of LTE (Vivek R Anand, Nokia): This session established the foundation, building upon radio communication principles and their evolution into LTE technology. Participants gained comprehensive knowledge of key concepts like cellular systems, channel propagation, modulation schemes, and multiple access techniques, setting the stage for deeper dives into LTE specifics.

**2. Unveiling LTE Radio Interface and Protocols:** Overview and Channel Structure of LTE (Rajiv Narahari, Nokia): This session delved into the intricate details of LTE radio interface. Participants explored the architecture, channel structure (physical channels and logical channels), and key functionalities like cell identification, synchronization, and handover.

**3. Mastering Data and Voice Flow in LTE:** Downlink and Uplink Transport Channel Processing (Kiran C P, Nokia): Participants gained in-depth knowledge of how data and voice are transported on the downlink and uplink channels. This included exploring modulation and coding techniques, scheduling algorithms, and error correction mechanisms for reliable data transmission.

**Hands-on Session:** Virtual Simulations (Arasu M, Nokia): Putting theory into practice, participants engaged in virtual simulations to solidify their understanding of transport channel processing for both downlink and uplink scenarios.

**4. Navigating UTRAN and EPS Handling Processes:** UTRAN and EPS Handling Processes (Rajat Duggal, Nokia): This session unravelled the intricate dance between the User (UTRAN) and Evolved Packet System (EPS) in LTE. Participants explored call setup, mobility management, handover procedures, and data transfer mechanisms, appreciating the seamless network experience this orchestration creates.

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**Hands-on Session:** Virtual Session (Rajat Duggal, Nokia): Through another virtual session, participants actively engaged in setting up and managing data calls, solidifying their grasp of UTRAN and EPS operations.

**5. Optimizing Resource Management and Data Flow:** Radio Resource Management and Mobility Management (Prateet Erayi, Nokia): This session focused on the crucial aspects of resource allocation and user mobility within the LTE network. Participants learned about scheduling algorithms, power control mechanisms, and handover optimization techniques, understanding how efficient network resource utilization is achieved.

**Hands-on Session:** Virtual Session (Prateet Erayi & Vivek R Anand, Nokia): Participants actively tested and evaluated resource management and data flow algorithms through virtual simulations, gaining practical insights into their impact on network performance.

**6. Embracing the 5G Evolution:** 5G Evolution, Architectures, and Call Flows (Shilpa Puttegowda, Nokia): Transitioning to the future, this session explored the exciting advancements in 5G technology. Participants learned about the key architectural differences, core network innovations, and enhanced call flow mechanisms that unlock the potential of ultra-fast speeds, low latency, and massive connectivity.

**7. Understanding IMS and Call Scenarios:** Introduction to IMS and Call Scenario (Maneesh K P, Nokia): This session delved into the heart of network communication - the IP Multimedia Subsystem (IMS). Participants explored its role in voice and video calls, multimedia messaging, and other advanced services, gaining a holistic understanding of how LTE and 5G networks enable real-time communication.

**Conclusion:** The "Workshop on 5G Evolution" proved to be a comprehensive learning experience, offering participants a deep dive into the intricacies of 5G technologies. The blend of theoretical knowledge and practical application, coupled with the expertise of the Nokia speakers, made the workshop an invaluable resource for those seeking to advance their skills in the dynamic field of 5G evolution. Participants left with a clear understanding of how 5G delivers faster speeds, lower latency, and the ability to connect multiple devices to the internet simultaneously, even under heavy traffic conditions.



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| DATE       | TOPIC                | TIMINGS                           | DURATION     | SPEAKER NAME       | CONTACT NUMBER |
|------------|----------------------|-----------------------------------|--------------|--------------------|----------------|
| March 16th | SOFTWARE ENGINEERING | 10:00 AM --11:00 AM & 15 MIN Q&A  | 1Hour 15 Min | Shruthi            | 9686173721     |
|            | SOFTWARE TESTING     | 11:15 AM -- 12:15 PM & 15 MIN Q&A | 1Hour 15 Min | Prashanth          | 9008835000     |
|            | NETWORK SECURITY     | 12:30 PM -- 1:30 PM & 15 MIN Q&A  | 1Hour 15 Min | Vidyavati Mallappa | 9902001990     |
|            |                      | LUNCH                             |              |                    |                |
|            | LTE                  | 02:30 PM -- 03:30 PM & 15 MIN Q&A | 1Hour 15 Min | Ravi Gangadhara    | 9591998397     |
|            | IMS                  | 03:45 PM -- 04:45 PM & 15 MIN Q&A | 1Hour 15 Min | Maneesh KP         | 9742064447     |
|            | IoT                  | 05:00 PM -- 06:00 PM & 15 MIN Q&A | 1Hour 15 Min | ROHIT AK           | 9740799332     |

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## Campus to Corporate Workshop

Date: Friday, Nov 8th, 2019.

Target Audience: 7th-semester students of SJCE, JSS STU

This workshop aimed to equip 7th-semester students of SJCE, JSS STU with the knowledge and skills needed to make a successful transition from academics to the corporate world. The program addressed key areas such as:

- **Professional Skills Development:** Resume writing, cover letter preparation, interview skills, and effective communication were covered through interactive sessions and mock exercises.
- **Corporate Culture and Expectations:** Insights were provided into the organizational structure, work ethics, and expectations of the corporate world, helping students adapt their mindsets and behaviours.
- **Industry Trends and Opportunities:** Experts from various industries shared their perspectives on current trends, emerging technologies, and career paths relevant to the students' academic backgrounds.
- **Networking and Mentorship:** Opportunities were facilitated for students to connect with industry professionals and alumni, fostering valuable mentorships and building professional networks.

### Key Takeaways:

- Participants gained practical skills and knowledge necessary for successful job applications and interviews.
- They developed a better understanding of corporate culture and expectations, preparing them for the workplace environment.
- Exposure to industry trends and opportunities helped them visualize their career paths and make informed decisions.
- Building connections with professionals and alumni provided valuable resources and guidance for future career development.

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**JSS**  
SCIENCE AND  
TECHNOLOGY  
UNIVERSITY

**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.

JSS Technical Institutions Campus, Mysuru - 577 006, Karnataka, India.

+91 2548285 / 86 / 89 +91 821 2548 290

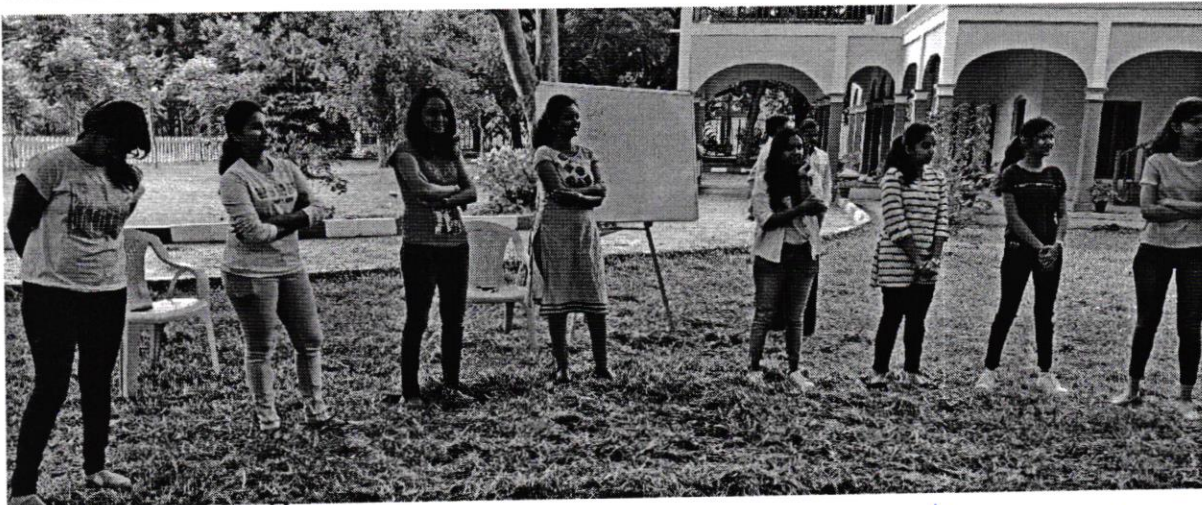
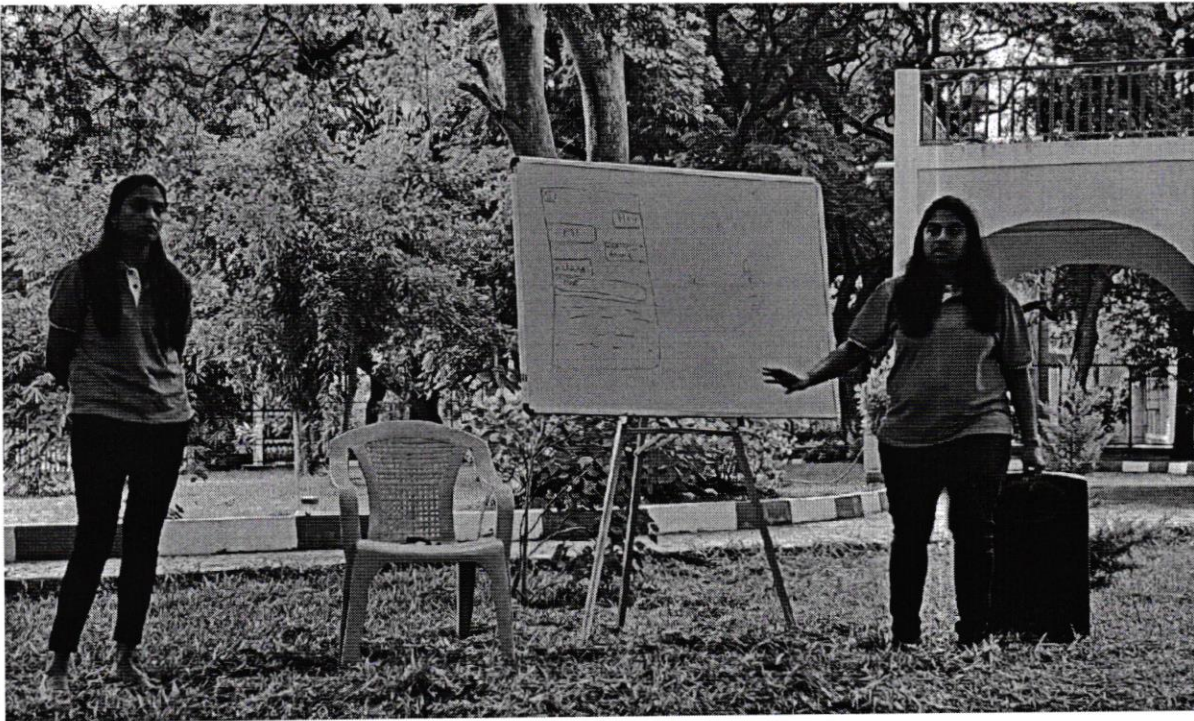
 office@issstuniv.in

 [www.jssstuniv.in](http://www.jssstuniv.in)





Overall, the Campus to Corporate workshop proved to be a valuable resource for SJCE students, equipping them with the skills and knowledge needed to confidently enter the corporate world.



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Phone:6664455874;186298871536395252e3ca1  
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Dr. U. B. MAHADEVASWAMY  
B.E., M.Tech., Ph.D.  
Professor & Head  
Department of Electronics and  
Communication Engineering  
Sri Jayachamarajendra College  
of Engineering  
JSS Campus, Mysuru  
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JSS Technical Institutions Campus, Mysuru - 576 006, Karnataka, India. [admission@jssctuniv.in](mailto:admission@jssctuniv.in)

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# JSS SCIENCE AND TECHNOLOGY UNIVERSITY

## SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING



- Constituent College of JSS Science and Technology University
  - Approved by AICTE
  - Governed by the Grant-in-Aid Rules of Government of Karnataka
  - Identified as lead institution for World Bank Assistance under TEQIP Scheme
- DIAMOND JUBILEE YEAR :: 1963 - 2023**



### Department of Mechanical Engineering

**Date: 27.01.2024**

### Details of activities through MoU with Boruka extrusions Pvt. Ltd

With reference to the above subject, 4 students of BE in Mechanical Engineering have undergone internship/industrial training at Boruka extrusions in 2021-22 and 3 students of M Tech in Maintenance Engineering have undergone internship/industrial training in 2022-23. The details are presented in the table below.

| Sl. No.     | USN           | Name of the Student     | Duration                                                         |
|-------------|---------------|-------------------------|------------------------------------------------------------------|
| UG Students |               |                         |                                                                  |
| 1.          | 01JST20ME072  | Mr. Siddharth K Ramesh  | 12 <sup>th</sup> September 2022 to 17 <sup>th</sup> October 2022 |
| 2.          | 01JST20ME012  | Mr. Chethan H E         |                                                                  |
| 3.          | 01JST20ME014  | Mr. Darshan Gowda U     |                                                                  |
| 4.          | 01JCE21ME403  | Mr. Nandan N            |                                                                  |
| PG Students |               |                         |                                                                  |
| 1.          | 01JCE21PME003 | Mr. Uday R              | 9 <sup>th</sup> January 2023 to 9 <sup>th</sup> April 2023       |
| 2.          | 01JCE21PME002 | Mr. Mallikarjunaswamy R |                                                                  |
| 3.          | 01JCE21PME001 | Ms. Dhikshitha R        |                                                                  |



*[Signature]* 29/01/2024  
 Head of the department  
**Dr. RAVISHANKAR. R**  
 Associate Professor and Head  
 Department of Mechanical Engineering  
 SJCE, Mysuru-570 006

*[Signature]*  
 Dean - Research  
 JSS Science & Technology University  
 JSS Technical Institutions' Campus  
 Mysuru - 570 006, Karnataka

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 TECHNOLOGY UNIVERSITY, c=IN

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- Constituent College of JSS Science and Technology University
- Approved by A.I.C.T.E
- Governed by the Grant-in-Aid Rules of Government of Karnataka
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## Report On Techsakhsham MOU Programme Between SAP-Microsoft and JSSSTU

TechSaksham is a top-up program that uses experiential learning to develop employability skills amongst underserved students by imparting critical skills that are required to secure jobs in the market. The training model established and fine-tuned over last two years of implementation will be continued in the upcoming year as well.

- Microsoft and SAP, through their CSR initiatives, aim at strengthening the social infrastructure, capacity building and developing sustainable approach to the future skills training.
- The program aims future IT skills talent pool especially in per-urban and tier-II / III towns across India, coming from underserved backgrounds with the objective of workforce readiness and employability.
- The training will be conducted in the areas of **Applied Cloud Computing for Software Development** or **Industrial Artificial intelligence with cloud computing**.
- The curriculum aims to create deep understanding and application of the technologies by students.

- All the eligible students in the program will be provided with **support for jobs/internship opportunities**.
- Thought leadership of Microsoft and SAP in technology domain.
- Core Technology and modular course for skill development of students.
- Mentorship from experts to work on projects aimed at leveraging technology to solve technical problems.
- Opportunity to demonstrate their project innovation through regional hackathons or innovation forums to varied industry and academic experts
- Students will receive joint certification from Microsoft and SAP upon successful completion of the course.

TechSaksham during its journey over the previous year has skilled 8500++ young women learners' and 3900+ faculty members. It has impacted 71000+ Students through its faculty knowledge transfer session. The program has run its course over the last year impacting over 700+ Institutions across 24 states. Here are the few other highlights from the program:

- **8500+** young learners were **trained** through the Student Training Program.
  - **3962 Faculty** members were **trained** through the **Faculty Development Program**.
  - Trained Faculty impacted **71000+ Students** through its faculty knowledge transfer session via TechSaksham LMS.
  - **1028 student capstone projects** were developed by students.
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PhoneNo=+919685858585 EmailId=sokkalingam.a.dhanaraj@jssnls.ac.in  
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JSS  
SCIENCE AND  
TECHNOLOGY  
UNIVERSITY

Dr. V. S. RAO, B.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.

Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 008, Karnataka



**SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING**

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- Constituent College of JSS Science and Technology University
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

- 1600+ learners have successfully placed.
- 25+ volunteer led expert sessions from Microsoft and SAP India.

The following is the **eligibility criteria** for enrolment in the program –

- Gender - Students (Male – 30% and Female – 70%)
- Year of study – 2<sup>nd</sup>, 3<sup>rd</sup> and final year of Engineering
- Engineering courses - Circuit branches and MCA

**Journey so far in JSSSTU:**

The programme was initiated on November 25<sup>th</sup> by conversating with the programme in charge Mr. Aditya chikka venkataiah. He instructed us to organize an orientation programme at first level for all the interested pre-final year students. The programme was scheduled at the three level. At first level CS and IS students were asked to join online and the orientation programmed was schedule on December 5<sup>th</sup> evening at 6 to 7.30 PM The Programme team provided the course introduction and the benefits of it. At the second level orientation for MCA students and IT students was held on December 15<sup>th</sup> at 6 to 7.30. On December 26, the orientation programmed was conducted for EC and EE students. Regular course was supposed to start by January 2<sup>nd</sup> week. Due to the Semester End Examination for 5<sup>th</sup>-semester students, the event was postponed to February as per the suggestions of the industry program coordinator.

Totally 120 students have got registered for the course across the circuit branches for this programme. Hence the classes are planned to start in the month of February seeking the schedule, date and time industry coordinator. The same will be updated to department level coordinators and to the students. Presently few sessions are planned to be conducted in Online mode until the theory part is completed. Offline sessions are planned at the next level in the campus as the requirements are identified.

From the above orientation programme the students, faculties are found to be enthusiastic and interested in taking u this end to end programme towards their technical knowledge and skill enhancement.

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Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

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Dr. Srinath. S

HOD, Dept. of CS&amp;E

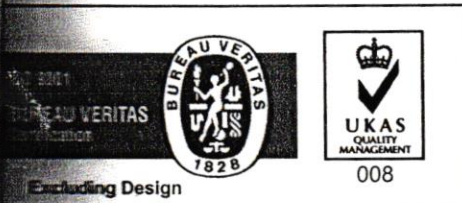
Associate Professor and H  
Dept. of Computer Science & Engin  
J.S.S Science & Technology University  
Mysore-570006.



**15/03/2023**

CIN : U27310KA2013PTC067824





BEPL: HRD: 13:2022

02/11/2022

## CERTIFICATE

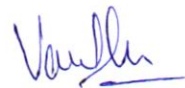
This is to Certify that **Mr.CHETHAN H.E** Bearing **USN. 01JST20ME012** BE Student from **JSS SCIENCE AND TECHNOLOGY UNIVERSITY** has successfully completed his **Internship** in our Organization from 17-09-2022 to 15-10-2022.

During his stay with us, we found him to be sincere and his conduct was **good**.

We wish him all the success in his future endeavors.

For **Bhoruka Extrusions Private Ltd.**

  
**Mr. R**  
**Manager HR & IR**





**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
**JSS Science and Technology University**  
Mysuru - 570 006, India.

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SOKKALINGAM ARUN, M. DHANARAJ  
CIN: SOKKALINGAM ARUN, M. DHANARAJ  
SERIALNUMBER: 09C71C74300000003300F706ea45d76c824f  
43c674d08090041420957ae/S&T, Mysuru, Postal Code: 570006  
Dr. Vanishri Arun, Associate Professor, Department of Information Science and Engineering, JSS Science and Technology University, Mysuru - 570 006, India.

**Bhoruka Extrusions Private Limited**

Regd. Office: # 1-KRS Road, Metagalli, Mysore - 570016, Karnataka, India

Phone: +91-821-4286112 • E-Mail: info@bhorukaextrusions.com • website: www.bhorukaextrusions.com

CIN: U27310KA2013PTC067824



Diabetes Mellitus is a major chronic disease associated with many complications and high morbidity. Diaguru is a mobile app that provides the user with a simple interface where they get many features which will help them in management of diabetes through smartphones. The caloric value of the food intake is computed and based on the sugar level and the caloric count the user will be advised about the calories he requires to take in a day. Reports and graphs can be generated to give them a clear idea of Diabetes, BP and Insulin levels. The app also answers FAQs and provides tips and references. The app helps in various Analyses useful for both users and doctors using the data collected. The app has been uploaded on Google console for hosting on Google Play.

The app was developed to show that an intervention with a mobile application aimed at lifestyle modification and medication management in addition to regular medical treatment for type 2 diabetes mellitus patients results in a better glycemic control compared to a control group who did not receive the adjuvant intervention.

The image displays four screenshots of the DiaGuru mobile application interface.

**Top Left Screenshot (User Login):** Shows the app icon on a home screen. Below it, the login screen includes fields for "email id" and "password", a "FORGOT PASSWORD?" link, a "SIGN-IN" button, and a "Don't have account! SIGN-UP" button. Logos for JSS Academy of Higher Education & Research and JSS Science and Technology University are visible.

**Top Right Screenshot (Doctor Interface):** Shows the "DiaGuru" header. On the left, under "Your Question", there is a "Post a Question" input field, a "Doctor answer" section showing "Drxyz will reply soon :)", and an "Ask a question" input field with a "SEND" button. On the right, it says "Welcome DR. XYZ" and has "PATIENT LIST" and "LOG OUT" buttons.

**Bottom Left Screenshot (Patient Dashboard):** Shows the "DiaGuru" header. On the left, there are logos for JSS Academy of Higher Education & Research and JSS Science and Technology University. Below them are fields for "email id" and "password", a "FORGOT PASSWORD?" link, a "SIGN-IN" button, and a "Don't have account! SIGN-UP" button. At the bottom, there is a signature of Dr. Vanishree and a stamp from the Department of Information Science and Engineering, JSS Science and Technology University, Mysuru - 570 006, India.

**Bottom Right Screenshot (Patient Dashboard):** Shows the "DiaGuru" header. On the left, there are buttons for "DAILY INPUTS", "MY PRESCRIPTION", "FOOD CHART", "MY REPORTS", and "TIPS/REFERENCES". On the right, there are input fields for "SUGAR (in mg/dL)" (with "Fasting" and "Random" options), "BP" (with "S(mmHg)" and "D(mmHg)" options), "Insulin (Units)", "Food Type" (with a dropdown menu showing "1. breads, cereals, rice, p.."), and a date field showing "2018/10/06". A "SUBMIT" button is at the bottom right.



|    |                                                                                                                                                                                                                                                                                                              |                           |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|    |                                                                                                                                                                                                                                                                                                              |                           |
|    | <b>Association with JSS AHER</b>                                                                                                                                                                                                                                                                             |                           |
|    |                                                                                                                                                                                                                                                                                                              |                           |
|    | <b>Dr. Vanishri Arun</b> has been associated as below:                                                                                                                                                                                                                                                       |                           |
| 1  | External Expert of Doctoral of Advisory Committee (DAC) for the PhD Candidate Dr. Deepika Yadav, Dept. of Community Medicine, JSS Medical College, JSSAHER, Mysuru on "Development And Validation Of Artificial Intelligence Enabled Fluorescence Device For Early Detection And Diagnosis Of Dental Caries" | 04/07/2022                |
| 2  | External Expert of Doctoral of Advisory Committee (DAC) for the PhD Candidate Dr. Gunisetty Hari Prakash, Dept. of Community Medicine, JSS Medical College, JSSAHER, Mysuru on the topic "Medical Technology based smartphone application in the Management of Cancer"                                       | 20/01/2022                |
| 3  | External Expert of Doctoral of Advisory Committee (DAC) for the PhD Candidate Dr. Arun Gopi, Dept. of Community Medicine, JSS Medical College, JSS AHER                                                                                                                                                      | 16/04/2022                |
| 4  | Co-guide for the Masters Candidate Dr. Deepak Anil, Dept. of Community Medicine, JSS Medical College, JSSAHER, Mysuru                                                                                                                                                                                        | 02/07/2020                |
| 5  | External Expert of Research Advisory Committee (RAC) (16th March 2023) for the PhD Candidate Dr. Rakshitha J., Dept. of Community Medicine, JSS Medical College, JSS AHER                                                                                                                                    | 16/03/2023                |
| 6  | Vipul (Masters)                                                                                                                                                                                                                                                                                              | October 2023              |
| 7  | Deepak (Masters)                                                                                                                                                                                                                                                                                             | October 2023              |
| 8  | External Expert of Research Advisory Committee (RAC) (8th May 2023) for the PhD Candidate Dr. Amoghashree., Dept. of Community Medicine, JSS Medical College, JSS AHER                                                                                                                                       | 08/05/2023                |
| 9  | Dr. Ravina, PhD project using Google API and App development                                                                                                                                                                                                                                                 |                           |
| 10 | Dr. Ravali, an App named BP Guide has been developed and hosted on Google Playstore                                                                                                                                                                                                                          | Completed in October 2023 |
| 11 | External Expert of Research Advisory Committee (RAC) (8th May 2023) for the PhD Candidate Dr. Rakshitha J., Dept. of Community Medicine, JSS Medical College, JSS AHER                                                                                                                                       | 15/03/2023                |

Dean Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 008, Karnataka



Dr. Vanishri Arun, M.Tech., Ph.D.  
Department of Information Science & Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.







| Research Grant Proposals                                                   |                                                                                                                                    |                                                                                                                                                                                                                   |                                                                                                                                                  |                        |                                                               |                         |  |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------|-------------------------|--|
|                                                                            | Names of PI/co-PI                                                                                                                  | Title of the Project                                                                                                                                                                                              | Funding Agency                                                                                                                                   | Grant applied (in Rs.) | Status                                                        |                         |  |
| 1                                                                          | Dr. Vanishri Arun, JSSSTU, Dr. Sunilkumar D., JSSAHER                                                                              | Development of Smart Wearable technology for the Prediction of Pain Crisis in Patients with Sickle Cell Disease in the Tribal Areas of Southern Karnataka.                                                        | Science and Engineering Research Board (SERB)                                                                                                    | 2,734,798.00           | Submitted on 28/02/2022<br>Under Review                       |                         |  |
| 2                                                                          | Dr. Vanishri Arun, JSSSTU, Dr. Sunilkumar D., JSSAHER, Dr. Hariprakash, JSSAHER                                                    | Point of Screening Technology driven by AI-based smartphone application in detecting Cervical Cancer by the use of foldscope in Low Resource Settings.                                                            | Indian Council of Medical Research (ICMR)                                                                                                        | 2,817,080.00           | Submitted on 15/02/2022<br>Under Review                       |                         |  |
| 5                                                                          | Dr. Vanishri Arun, JSSSTU, Dr. Sunilkumar D., JSSAHER, Dr. Hariprakash, JSSAHER                                                    | Malaria Point of diagnosis technology driven by AI-Smartphone application by the use of a field-level microscope (Foldscope) in low resource settings.                                                            | ICMR                                                                                                                                             | 26,98,066.00           | Under Review                                                  |                         |  |
| 6                                                                          | Dr. Vanishri Arun, JSSSTU, Dr. Sunilkumar D., JSSAHER, Dr. Mallikarjunaswamy M S., JSSSTU, Dr. Deepika Yadav, JSSAHER              | Development And Validation Of Artificial Intelligence Enabled Fluorescence Device For Early Detection And Diagnosis Of Dental Caries                                                                              | Call for Innovative and Entrepreneur Technology Incubation Hub (TIH) Interdisciplinary Cyber-Physical Systems Data Analytics and Predictive Tech | 13,42,660.00           | July 2022                                                     |                         |  |
| 7                                                                          | Dr. Vanishri Arun, JSSSTU, Dr. Bhavya S V, JSS Nursing School, JSSAHER, Dr. Ambika K., JSS Nursing school, JSS                     | Leveraging Artificial Intelligence and Machine Learning in Cry Analyzer for Enhanced Neonatal Care                                                                                                                | ICMR                                                                                                                                             | Rs. 16,66,350.00       |                                                               | Submitted on 31/10/2023 |  |
| 8                                                                          | Dr. Sunilkumar D., JSSAHER, Dr. Vanishri Arun, JSSSTU, Krishnamurthy K V                                                           | Empowering Non-Communicable Disease Surveillance: Enhancing NCD Monitoring with Real-time Demographic Data Integration and Technological                                                                          | ICMR                                                                                                                                             | Rs. 29,91,800.00       |                                                               | Submitted on 01/11/2023 |  |
| JSS STU, Witwatersrand University and JSS AHER - Tripartite MoU activities |                                                                                                                                    |                                                                                                                                                                                                                   |                                                                                                                                                  |                        |                                                               |                         |  |
| 1                                                                          | Dr. Vanishri Arun, JSSSTU, Dr. Ashwini Jadhav, University of Witwatersrand, Johannesburg, South Africa, Dr. Sunilkumar D., JSSAHER | Signature Not Verified<br>Detection and Prevention of Student Attrition Rate and Performance of Artificial Intelligence Techniques: A Case Study of Witwatersrand University and South Africa<br>08/02/2024 19:39 | Award for Inclusion Research Program, Google                                                                                                     | \$ 48600 USD           | submission-80423<br>09127819488393<br>54566456468903<br>82579 | Submitted on 14/07/2023 |  |



This is an MOU programme signed between SAP –Microsoft and JSSSTU, Mysore. To brief about, it is oriented towards student development.

**Objectives-** Microsoft and SAP, through their CSR initiatives, aim at strengthening the social infrastructure, capacity building and developing sustainable approach to the future skills training.

### Key Highlights

- ### About TechSaksham:

TechSaksham during its journey over the previous year has skilled 8500++ young women learners' and 3900+ faculty members. It has impacted 71000+ Students through its faculty knowledge transfer session. The program has run its course over the last year impacting over 700+ Institutions across 24 states. Here are the few other highlights from the program:

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Dean - Research -  
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Phone=90520c2da697e4d11a62789171d809ff8153ce69252e3ca1,  
b95469f9c8d85809, O=REGISTRAR, O=JSS SCIENCE AND  
TECHNOLOGY UNIVERSITY, CN=  
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**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
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### **Journey so far in JSSSTU:**

The programme was initiated on November 25<sup>th</sup> by conversating with the programme in charge Mr. Aditya chikka venkataiah. He instructed us to organise an orientation programme at first level for all the interested pre-final year students. The programme was scheduled at the three levels. At first level CS and IS students were asked to join online and the orientation programmed was schedule on December 5th evening at 6 to 7.30 PM The Programme team provided the course introduction and the benefits of it. At the second level orientation for MCA students and IT students was held on December 15<sup>th</sup> at 6 to 7.30. On December 26, the orientation programmed was conducted for EC and EE students. Regular course was supposed to start by January 2<sup>nd</sup> week. Due to the Semester End Examination for 5th-semester students, the event was postponed to February as per the suggestions of the industry program coordinator.

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Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

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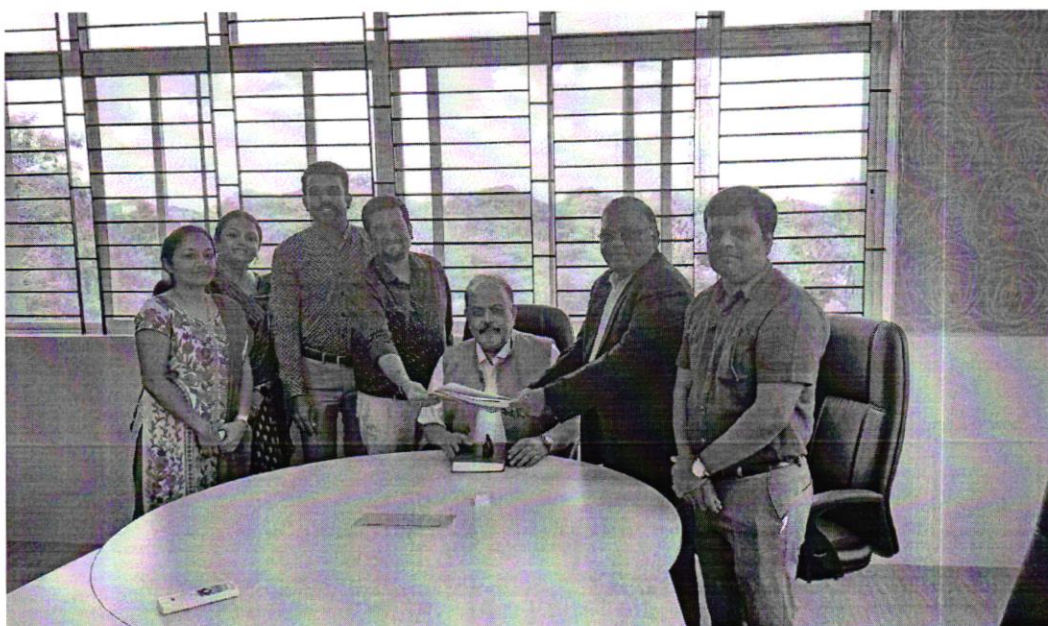
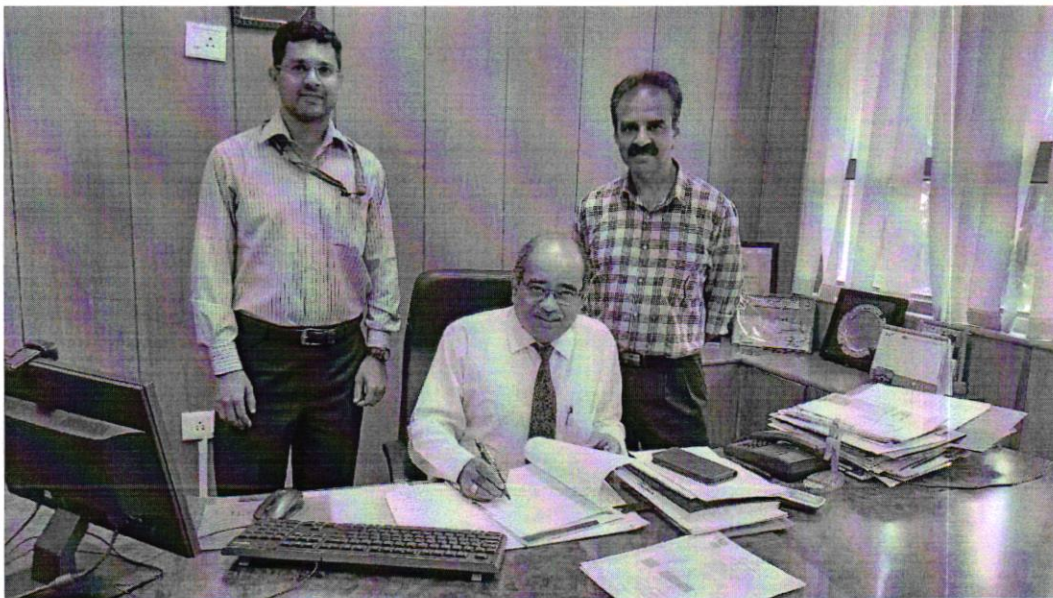
*Handwritten signature*

**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.



**MoU signing event between JSS Science and Technology University and Graphic Era University, Dehradun**

An MoU was signed between JSS Science and Technology University and Graphic Era University, Dehradun separately in both the universities. Dr. S A Dhanaraj, Registrar, JSS STU signed the MoU papers on 17/08/2022 and Dr. Nagaraju, Vice Chancellor, GEU, Dehradun signed on 25/07/2022. The papers were exchanged via post.



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JSS Science & Technology University  
JSS Technical Institutions Campus  
Mysuru - 570 008, Karnataka



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PhoneNo=C62dc6a97efc1a52b97dd89f89c15c36e925e3ca1  
d46546fe388d565809\_OJ=REGISTRAR,O=JSS SCIENCE AND  
TECHNOLOGY UNIVERSITY,C=IN

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*A Report on Inaugural event of*  
**JSS STU-Dassault Systemes**  
**"Product Design Skill Development Center"**

*On 24th November 2023 at 12.30 PM*

*Venue: CS IS Seminar Hall, Golden Jubilee Bhavan*

The JSS STU-Dassault Systemes Center is envisioned as part of MOA between JSS MVP and M/s. Dassault Systemes.

On the 24th of November 2023, at 12:30 PM, the JSS Science and Technology University (JSS STU) inaugurated the Dassault Systemes "Product Design Skill Development Center" in a ceremony held at the CS IS Seminar Hall, Golden Jubilee Bhavan.

The center is equipped with state-of-the-art facilities to provide hands-on experience in product design, simulation, and analysis.



**Dignitaries Inaugurating the center**

Dr. C G Betsurmth, Executive Secretary, JSS MVP was the distinguished chief guest of the inaugural event. Mr. Sreenivasa Rao Pudipatla, INDIA Industry Consultant – Technical Executive, M/s. Dassault Systemes India Pvt. Ltd was present as the guest of honour. The inaugural event was presided over by Prof. A N Santosh Kumar, Vice-Chancellor, JSS STU, Mysuru. Prof. C Nataraju, Principal (i/c) of SJCE and Dr. Maheshan M S, Assistant Registrar were present during the occasion. The presence of esteemed personalities from both JSS STU and M/s. Dassault Systemes added grandeur to the occasion. The inauguration was also witnessed by the team from M/s. Alphaabets Digital Labs who happens to be the implementation partner of M/s. Dassault Systemes.

The inaugural event began with the invocation rendered by a student which was followed by Welcome address delivered by Dr. M H Sidram, HoD, EEE, SJCE, JSS STU, Mysuru. He expressed his gratitude for JSS STU for having bestowed the responsibility of facilitating the center

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Dr. Vanish Kumar, Ph.D.  
Assistant Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.



*Vanish*



to the department of Electrical and Electronics Engineering.



Dr. M H Sidram, Head-EEE, Delivering Welcome Address

The inaugural ceremony began with a traditional lamp lighting by the dignitaries. This symbolic gesture opened new dimension in product design education at JSS STU.



Dr. M H Sidram, Mr. Sreenivasa Rao P, Dr. C G Betsurmah, Prof. A N Santosh Kumar, Prof. C Nataraju lighting the lamp

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JSS Science & Technology University  
Mysuru - 570 006, Karnataka



**Dr. V. Venkatesh** B.E., M.Tech., Ph.D.  
Signature Not Verified  
Department of Electrical Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.

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The chief guest, Dr. C G Betsurmath, Executive Secretary, JSS MVP, then addressed the audience, highlighting the significance of skill development centers in academic institutions. He emphasized the need for students to be well-versed in the latest tools and technologies used in the industry, and how the collaboration with M/s. Dassault Systèmes would contribute to achieving this goal. He spoke on the vital role of JSS MVP in bridging the gap between industry and academia. He also spoke about the skill enhancement opportunities provided by the center. He stressed the importance of such centers in holistic growth of students. He briefed the objectives and outcomes of the center to the gathered audience. He also stated this partnership aims to enhance the skills and competencies of students in the field of product design, aligning with industry standards. He urged the students to make the best use of the facility.



Dr. C G Betsurmath, Chief Guest, Addressing the audience.

Guest of honour, Mr. Sreenivasa Rao Pudipatla, during his speech he emphasized criticality of practical knowledge in industry . He also spoke about the strong domain knowledge which will help the students to face the technological challenges. He briefed the audience about the key features of the Product Design Skill Development Center, showcasing the cutting-edge technologies and software that students would have access to for honing their design skills.

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 Dean - Research -  
 JSS Science & Technology University  
 JSS Technical Institutions' Campus  
 Mysuru - 570 006, Karnataka



Dr. Vanishri Arun B.E., M.Tech., Ph.D.  
 Associate Professor  
 Department of Mechanical Engineering  
 JSS Science and Technology University  
 Mysuru - 570 006, India.

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Mr. Sreenivasa Rao Pudipatla, Guest of Honour, Addressing the audience

**Prof. A N Santosh Kumar, Vice-Chancellor, JSS STU** delivered the presidential remarks by mentioning the magnanimity of the management in encouraging the university to set up this kind of centers. He also emphasized that getting trained on state – of – the art technologies is very essential in this competitive world and also to become industry ready. He mentioned that skill development is very important along with the knowledge of curriculum. He also enlightened the audience about the skill development initiatives of Government of India and Government of Karnataka.



Prof. A N Santosh Kumar, Vice-Chancellor, Addressing the audience

The event concluded with a vote of thanks expressing gratitude to all the dignitaries, faculty members, and students for their presence. Later on, the attendees were invited to explore the Product Design Skill Development Center and engage in further discussions during the orientation session that followed.



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**Dr. M. Arun B.E., M.Tech., Professor**

Department of Information Science and Engineering

JSS Science and Technology University

Mysuru - 570 006, India.

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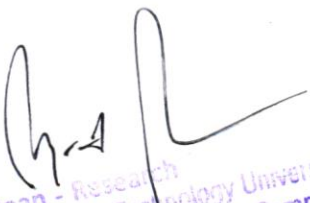


Dignitaries with the audience

Followed by the inauguration, demonstration of the Dassault Systèmes software was conducted to give the audience a glimpse of the tools that would be integrated into the curriculum. This interactive session allowed attendees to witness the capabilities of the software in real-time.

The inauguration of the JSS STU-Dassault Systèmes Product Design Skill Development Center marks a significant milestone in the university's commitment to providing a cutting-edge education that aligns with industry requirements. The center is expected to play a pivotal role in shaping the future of aspiring product designers and engineers.

The inauguration was organized by Department of Electrical and Electronics Engineering, SJCE, JSS STU and was attended by final year students of Departments of Electrical and Electronics Engineering, Mechanical Engineering and Industrial and Production Engineering.

  
Dean - Research  
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JSS Technical Institutions' Campus  
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 Associate Professor

Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.



## Proceedings of the meeting

M/s. Dassault Systemes Visit to  
Department of Electrical and Electronics Engineering  
SJCE, JSS STU, Mysuru-06

On 16/12/2022 at 11.00 AM in Computer Lab, E&EE

### Attendees

#### **a. Team from M/s. Dassault Systemes**

1. Ms. Avula Geetha, *Industry Process Consultant Senior Manager, Simulia*
2. Mr. Kiran Jacob, *Industry Process Consultant Manager, CATIA India*
3. Mr. Kovelakonda Dinesh Tej, *Customer Solution Experience India Technical Executive*
4. Mr. Khazi Sohail, *Industry Process Consultant Manager, CATIA India*
5. Pudipatla Sreenivasa Rao, *Industry Process Technical Executive*

#### **b. Team from Dassault Systemes**

1. Dr. M H Sidram, *Assoc. Prof. and Head-EEE*
2. Dr. Mohan N, *Assoc. Prof.-EEE*
3. Ms. Neethi M, *Asst. Prof.-EEE*
4. Mr. Ravishankar B S, *Asst. Prof.-EEE*
5. Ms. Sowmyashree N, *Asst. Prof.-EEE*
6. Ms. Deepa S N, *Asst. Prof.-EEE*
7. Ms. Rekha M N, *Asst. Prof.-EEE*
8. Ms. Divyashree B P, *Asst. Prof.-EEE*
9. Ms. Sharmila N, *Asst. Prof.-EEE*
10. Ms. Lakith G, *Asst. Prof.-EEE*
11. Ms. Arjun M S, *Asst. Prof.-EEE*
12. Dr. Vanishree Arun, *Assoc. Prof.-ISE & Academic/International engagements*

### Meeting Agenda

1. Welcome
2. About the department
3. About the Proposed M.Tech Programme in Electric Vehicle Technology
4. Discussion on Draft Scheme and Syllabus of M.Tech Programme in Electric Vehicle Technology
5. Visit to Laboratories
6. Lunch
7. About the Proposed M.Sc Programme in Electric Vehicle Technology
8. Visit to Office of Vice –Chancellor-JSS STU

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TECHNOLOGY UNIVERSITY, C=IN

Dr. Vanishree Arun B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.

## Discussion and Outcome

### **Agenda 1:**

Dr. M H Sidram welcomed all the members of the meeting Mr. Jacob introduced his team members to the gathering.

### **Agenda 2:**

Dr. M H Sidram explained about the department and its activities and achievements to the members

### **Agenda 3:**

1. Dr. M H Sidram briefed about the Proposed M.Tech Programme in Electric Vehicle Technology and its relevance to the current demand of EV industry
  - a. Ms. Geetha opined that the Proposed M.Tech Programme in Electric Vehicle Technology should be open for graduates of Mechanical engineering also.

### **Agenda 4:**

1. Dr. Mohan N presented the draft scheme of the Proposed M.Tech Programme in Electric Vehicle Technology to the members
  - a. Mr. Jacob suggested to add courses related to mechanical engineering stream
  - b. Mr. Jacob suggested to add fundamentals of EV as courses in the first semester
  - c. Ms. Geetha suggested to make Vehicle Dynamics as a core course
  - d. Mr. Jacob suggested replace vehicle safety software by Automotive electronics
2. Dr. Mohan N presented the draft contents of all the subjects of proposed curriculum
3. All Faculty Members and M/s. Dassault Team Members discussed to revise the scheme having fundamental core courses, elective courses and labs as given in annexure.
4. Mr. Jacob discussed that his team will work on the revised scheme and suggest topics in proposed courses on par with industry requirements.

### **Agenda 5:**

1. M/s. Dassault Team Members visited the existing laboratories and opined that drives lab is essential for EV programme.
2. M/s. Dassault Team appreciated the set up available in automation lab and machines lab.

### **Agenda 7:**

1. Dr. M H Sidram opened the discussion about pros and cons of starting new M.Sc programme in Electric Vehicle Technology
2. Mr. Sreenivasa Rao opined that placement opportunities for M.Sc. graduates would be a matter of concern in future



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3. Mr. Jacob opined that courses in proposed M.Sc. must be only of fundamental oriented which would not suffice for requirement expected by EV industries.

4. Mr. Dinesh Tej suggested to offer certification programme/vocational courses in EV in collaboration with CoE of M/s. Dassault Systemes instead of .Sc programme in Electric Vehicle Technology

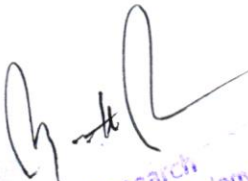
5. Ms. Geetha and Mr. Jacob opined that the some of the engineering subjects related to mechanical, electrical and electronics would be found difficult for students of B.Sc background to manage few relevant advanced courses in proposed PG programme.

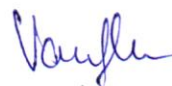
#### Agenda 8:

1. Prof. A N Santhosh Kumar , Hon. VC, JSS STU , Prof. S A Dhanraj, Registrar, JSS STU and Prof. B Manojkumar, Dean(Acad.) interacted with the M/s. Dassault Team Members and requested them to extend their full co-operation for JSS STU in establishing proposed M.Tech Programme in EVT.

2. M/s. Dassault Team Members expressed their willingness in extending support for proposed M.Tech programme in EVT.

3. The office of VC, JSS STU thanked all the members of the M/s. Dassault Team.

  
Dean - Research  
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## Annexure

### Prospective Courses (Core)

1. General Introduction to EV
  - a. Types
2. Battery technologies
  - a. Structure of battery cells
  - b. Chemistry
  - c. Module and pack
  - d. Thermal behavior
  - e. Aging
  - f. recycling
3. Power train
  - a. Configuration
  - b. Ac and dc drives
  - c. Electric drive engg
    - i. Structural and Thermal
    - ii. Noise and vibration
    - iii. Lubrication
    - iv. durability
4. power electronics for EVs
  - a. introduction
  - b. switching aspects
  - c. structural and thermal mgmt.
  - d. EMC and EMI
5. Vehicle dynamics
6. Automotive electronics
  - a. EMS
  - b. BMS
  - c. EE architecture
  - d. Vehicle diagnostics

### Prospective Courses (Elective)

1. Mathematical modelling
  - a. Vehicle modelling
  - b. Cell modelling
  - c. Battery pack modelling
  - d. Drive modelling
2. Charging infra
3. ADAS and AD
  - a. Vehicle safety
4. Battery efficiency Management
  - a. cooling
5. CAN Protocol

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*Vanishri*

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- ### Prospective Labs

1. Power Electronics and Drives
2. Battery Simulation
3. Electric Drive Simulation
4. Embedded Lab

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UNIVERSITY

**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
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## NBUC (NOKIA – BANGLORE UNIVERSITY COLLABORATION)

### NOKIA DAY REPORT

Date of event: 20/11/23

At 5:30 in the morning, a group of ten students, together with Professors Yashwanth S.D., Chandrashekar Murthy B.N., Vinayprasad M S and Madhusudan M P gathered in the college grounds before departing for Bangalore at 6:00 in a 13-seat tempo traveller.

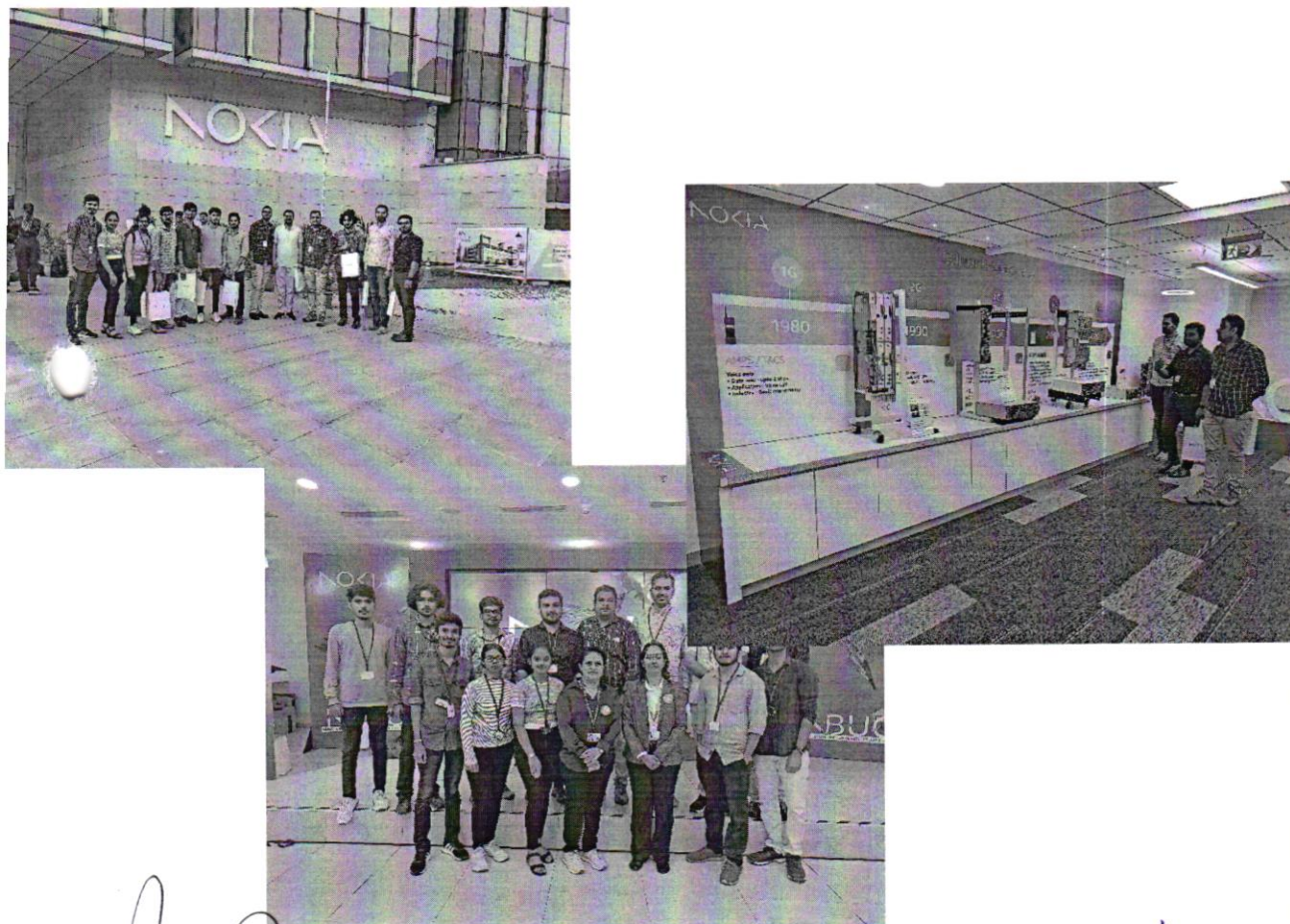
Following breakfast, we arrived at the NOKIA campus in Bangalore by 9:30 am. There, we were warmly welcomed by the event coordinators and given visitor IDs. We were then directed to the main event hall, where the keynote address by Sathish Jamadagni, Vice President of Jio Networks India, on "6G in India" was followed by a talk on "Next Gen Potential." By Dr. Debabrata Das, Director and Professor at IIIT Bangalore.

The student Debate on Generative AI: Miracle or Menace and was moderated by Mr. Krishnamurthy T V. • The students were divided into 5 groups and taken to 5G and 6G labs, followed by Project Road shows and interactions with the HRs and the industrialists.

The Valedictory programme began in the evening with a dance performance by college students. This was followed by the awarding of prizes to students who took part in a variety of activities, such as the dance competition, hackathon, debate, and contest for 6G test case suggestions. All of the college professors received recognition for their significant attendance and assistance.

We departed Bangalore in the evening after all the events, and headed towards Mysuru, and reached the college campus at 10:30 pm.

### GALLERY:



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*Vanisha A. Furuka*  
**Dr. Vanisha A. Furuka** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
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FACULTY DEVELOPMENT PROGRAM  
ON  
LEARN AND EXPERIENCE THE FLAVORS OF ADVANCED 5G

**Date:** 24/07/2023 to 28/07/2023

**Venue:** L5 Building, Manyata Tech Park, Outer Ring Road, Nagawara, Bangalore - 560045

**Organizer:** Nokia Solutions and Networks Pvt Ltd

### ***Introduction***

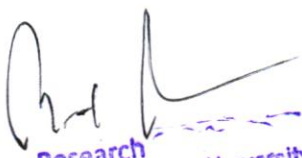
The 5G Evolution and Emerging Technologies Faculty Development Programme (FDP) was designed to improve the knowledge and experience of faculty members from various educational institutions in the field of telecommunications and wireless networks. The FDP was aimed at providing participants with a thorough grasp of the core ideas and sophisticated technologies associated with 5G, as well as insight into the impending 6G technology. 5G evolution, IMS Call flow and VoLTE call flow, 5G radio resource controller, 5G core network, lab visit for hardware and cable connectivity, cloud RAN, ORAN, transports in mobile networks, network slicing, AI/ML in 5G, 5G security, and an introduction to 6G were among the topics covered.

### ***Day 1: 5G Evolution***

The first day of the FDP focused on to understanding the evolution of mobile networks from the early generations to 5G. we learned about the essential characteristics and requirements of 5G, such as increasing data throughput, reduced latency, huge connectivity, and network slicing. The session focused on the distinctions between 5G and its predecessors, offering insight on how 5G hopes to rectify the inadequacies of previous generations through 5G use cases.

### ***Day 2: 5G Radio Resource Controller and Core Network***

On the second day, we learned about the 5G radio resource controller and core network. Members of the faculty learned about radio access technologies including millimeter-wave (mm Wave) and massive MIMO, which are critical for attaining high data rates and increased network capacity in 5G. The 5G core network architecture, which enables network slicing, edge computing, and support for a wide range of applications and services, was also discussed.

  
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### ***Day 3: Cloud RAN and Transports in Mobile Networks***

The third day focused on cloud radio access networks (RAN) and the role of transport networks in mobile communications. We explored the advantages of cloud RAN, such as centralized processing, improved resource utilization, and higher flexibility. The seminar on mobile network transports discussed various backhaul and fronthaul technologies that allow effective data transmission and reduced latency in 5G networks.

### ***Day 4: Network Slicing and 5G Security***

The fourth day of the Programme focused on two essential features of 5G networks: network slicing and security. We acquired a thorough grasp of network slicing, which allows for the division of a single physical network into many virtual networks to meet the demands of various applications and sectors. The security session discussed different security obstacles in 5G, such as privacy concerns, authentication issues, and cyber threat defense.

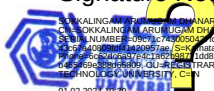
### ***Day 5: Introduction to 6G***

The final session of the FDP included an introduction to 6G technology, which gave a fascinating overview into the future of wireless communications. We learnt about prospective use cases, research obstacles, and the basic distinctions between 5G and 6G. Discussions centered on the anticipated increases in data speeds, latency, and dependability, which would pave the way for disruptive applications and innovations.

### ***Conclusion***

The Faculty Development Programme on 5G Evolution and Emerging Technologies offered us with an educational experience, equipping them with a thorough awareness of the most recent developments in the telecommunications sector. We learned about the progress of the 5G ecosystem, essential technologies, security issues, and the possibilities of network slicing. Furthermore, the launch of 6G fueled excitement and hope for the future of cellular communications. The Programme finished with participants thanking the organizers and speakers for putting on an informative and well-structured FDP. The knowledge gained from this FDP is expected to be beneficial for both faculty members and our students, as we can now contribute to cutting-edge research, foster innovation, and prepare the next generation of professionals for the challenges and opportunities presented by 5G and beyond.

  
Dean - Research  
JSS Science & Technology University  
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Dr. Vanishri Arun B.E., M.Tech., Ph.D.  
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**NBUC: Consolidated UC report of SJCE**

4 messages

Chandrakala Mallikarjunaiah (Nokia) &lt;chandrakala.mallikarjunaiah@nokia.com&gt;

Fri, Jan 12, 2024 at 1:15 PM

To: Yashwanth S D E&amp;C &lt;yashwanth@sjce.ac.in&gt;

Cc: "Ponni K (Nokia)" &lt;ponni.k@nokia.com&gt;

Dear Sir,

Please find below the consolidated data of UC programs that were conducted from 2019 to 2023, with SJCE University.

This is the gist that I could collate as per your request. Also attaching the available brochures FYR.

| Event Date           | Schedule and list of speakers                                                                                         | Speaker/s                                                         | No. of Students | No. of Hrs | Brochures         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|------------|-------------------|
| 2019                 |                                                                                                                       |                                                                   |                 |            |                   |
| Feb-2019             | <b>Basic Technical Talk:</b><br>LTE<br>IMS<br>Network Security<br>Software Engineering<br>IoT                         | Ravi Gangadhar<br>Maneesh<br>Vidya<br>Asifullakhan<br>Umar Zafrul | 121             | 9          |                   |
| Mar-2019             | <b>Emerging Technical Talk:</b><br>5G<br>Analytics<br>Machine Learning<br>Network / IP                                | Niraj<br>Nanda<br>Suma<br>Maneesh / Vivek                         | 96              | 6          |                   |
| Apr-2019             | Experiential Learning: Visit of Students and Professors to the Nokia Lab                                              | Ganesh & Team                                                     | 40              | 7          |                   |
| May-2019             | <b>Emerging Technical Talk:</b><br>5G<br>Analytics<br>Machine Learning<br>Network / IP                                | Niraj<br>Nanda<br>Suma<br>Maneesh / Vivek                         | 40              | 7          |                   |
| Nov-2019             | Campus to Corporate:<br>A Soft skill training                                                                         | Indumathi R                                                       | 39              | 3          |                   |
| 2020                 |                                                                                                                       |                                                                   |                 |            |                   |
| Feb-2020             | <b>Basic Technical Talk:</b><br>LTE<br>IMS<br>Network Security<br>Software Engineering<br>IoT                         | Ravi Gangadhar<br>Maneesh<br>Vidya<br>Asifullakhan<br>Umar Zafrul | 139             | 6.5        |                   |
| Apr-2020             | <b>Emerging Technical Talk:</b><br>5G<br>Analytics<br>Machine Learning<br>Network / IP<br>Design pattern using python | Niraj<br>Nanda<br>Suma<br>Maneesh / Vivek<br>Tayabba              | 40              | 6.5        |                   |
| 2021                 |                                                                                                                       |                                                                   |                 |            |                   |
| Mar: 18, 19 & 25, 26 | 5G Workshop for PG Students                                                                                           |                                                                   | Online          | 30         | Brochure attached |
| Apr-2021             | Emerging Tech Talk Webinar                                                                                            | Signature Not Verified                                            | Online          | 18         |                   |

Dear Research  
 JSS Science & Technology University  
 JSS Technical Institutions' Campus  
 Mysuru - 570 006, Karnataka

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Dr. Vanishri Arun B.E., M.Tech., Ph.D.  
 Associate Professor  
 Department of Information Science and Engineering  
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 Mysuru - 570 006, India.

|                |                                            |                         |        |          |                   |
|----------------|--------------------------------------------|-------------------------|--------|----------|-------------------|
| Jun-2021       | Hackathon                                  |                         | Online | 5        |                   |
| Jul-2021       | Workshop on 'Cloud Security'               |                         | Online | 12       | Brochure attached |
| Aug - Sep 2021 | Workshop on 'C++'                          |                         | Online | 27       | Brochure attached |
| 2022           |                                            |                         |        |          |                   |
| Jul-2022       | Short term projects (Business Line)        | Lovleen Chandana Deepti | 8      | 40       |                   |
| Nov-2022       | Board of Studies                           | Venkatasubramanian B    |        | 3        |                   |
| 2023           |                                            |                         |        |          |                   |
| Jun-2023       | Campus to Corporate: A Soft skill training | Indumathi R             | 40     | 4        |                   |
| Jun-2023       | Short term projects (Business Line)        | Renganayaki             | 4      | 6 months |                   |
| Nov-2023       | Short term projects (Business Line)        | Rajat                   | 2      | 6 months |                   |
| Dec-2023       | Board of Studies                           | Venkatasubramanian B    |        | 2.5      |                   |

Best Regards,

Chandrakala Mallikarjunaiah

Project Manager,

Nokia, MN COO COSI CLI SRN IND 1

+91 88841 11843

NOKIA

### 3 attachments

 Workshop\_5G\_Leaflet\_2021.pdf  
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 C++ Workshop\_Brochure\_2021.pdf  
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 Workshop\_on\_cloud\_security\_brochure\_2021.pdf  
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Yashwanth S D E&C <yashwanth@sjce.ac.in>  
To: "Chandrakala Mallikarjunaiah (Nokia)" <chandrakala.mallikarjunaiah@nokia.com>  
Cc: "Ponni K (Nokia)" <ponni.k@nokia.com>

Fri, Jan 12, 2024 at 2:41 PM

Thanks a lot for sharing madam, this helps a lot for us in the accreditation process.

*Thanks and Regards,*

Yashwanth S D  
Assistant Professor,  
Department of Electronics and Communication,  
Sri Jayachamarajendra College of Engineering,

Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

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Phone: 9448112095780 (Sri Lanka), PostalCode=570006,  
b4854f23800580, OU=JSS SCIENCE AND TECHNOLOGY UNIVERSITY,  
01.02.2024, 15:55

*Vanishri*

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yashwanth@jssstuniv.in

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Yashwanth S D E&C <yashwanth@sjce.ac.in>  
To: "Lakshminarasimman V Rao, JSS CMS" <simha75@jssstuniv.in>

Tue, Jan 16, 2024 at 5:46 PM

*Thanks and Regards,*

Yashwanth S D  
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Lakshminarasimman V Rao, JSS CMS <simha75@jssstuniv.in>  
To: Yashwanth S D E&C <yashwanth@sjce.ac.in>  
Cc: "Dr. K. Shailaja IT" <kshaila\_15@sjce.ac.in>, "Dr. Vanishri Arun IS&E" <vanishriarun@sjce.ac.in>

Wed, Jan 17, 2024 at 10:39 AM

Namaste Sir,  
thank you so much  
I will take a printout and come to your dept for seal and signature.  
Lakshminarasimman V Rao  
[Quoted text hidden]

--  
Thank you,

Lakshminarasimman V Rao  
Asst.Professor, JSS CMS  
simha75@jssstuniv.in  
99725 98469

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*Shailaja*  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 008, Karnataka

**NBUC: Consolidated UC report of SJCE**

4 messages

 Chandrakala Mallikarjunaiah (Nokia) <chandrakala.mallikarjunaiah@nokia.com>  
 To: Yashwanth S D E&C <yashwanth@sjce.ac.in>  
 Cc: "Ponni K (Nokia)" <ponni.k@nokia.com>

Fri, Jan 12, 2024 at 1:15 PM

Dear Sir,

Please find below the consolidated data of UC programs that were conducted from 2019 to 2023, with SJCE University.

This is the gist that I could collate as per your request. Also attaching the available brochures FYR.

| Event Date           | Schedule and list of speakers                                                                                         | Speaker/s                                                         | No. of Students | No. of Hrs | Brochures         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|------------|-------------------|
| 2019                 |                                                                                                                       |                                                                   |                 |            |                   |
| Feb-2019             | <b>Basic Technical Talk:</b><br>LTE<br>IMS<br>Network Security<br>Software Engineering<br>IoT                         | Ravi Gangadhar<br>Maneesh<br>Vidya<br>Asifullakhan<br>Umar Zafrul | 121             | 9          |                   |
| Mar-2019             | <b>Emerging Technical Talk:</b><br>5G<br>Analytics<br>Machine Learning<br>Network / IP                                | Niraj<br>Nanda<br>Suma<br>Maneesh / Vivek                         | 96              | 6          |                   |
| Apr-2019             | Experiential Learning: Visit of Students and Professors to the Nokia Lab                                              | Ganesh & Team                                                     | 40              | 7          |                   |
| May-2019             | <b>Emerging Technical Talk:</b><br>5G<br>Analytics<br>Machine Learning<br>Network / IP                                | Niraj<br>Nanda<br>Suma<br>Maneesh / Vivek                         | 40              | 7          |                   |
| Nov-2019             | Campus to Corporate:<br>A Soft skill training                                                                         | Indumathi R                                                       | 39              | 3          |                   |
| 2020                 |                                                                                                                       |                                                                   |                 |            |                   |
| Feb-2020             | <b>Basic Technical Talk:</b><br>LTE<br>IMS<br>Network Security<br>Software Engineering<br>IoT                         | Ravi Gangadhar<br>Maneesh<br>Vidya<br>Asifullakhan<br>Umar Zafrul | 139             | 6.5        |                   |
| Apr-2020             | <b>Emerging Technical Talk:</b><br>5G<br>Analytics<br>Machine Learning<br>Network / IP<br>Design pattern using python | Niraj<br>Nanda<br>Suma<br>Maneesh / Vivek<br>Tayabba              | 40              | 6.5        |                   |
| 2021                 |                                                                                                                       |                                                                   |                 |            |                   |
| Mar: 18, 19 & 25, 26 | 5G Workshop for PG Students                                                                                           |                                                                   | Online          | 30         | Brochure attached |
| Apr-2021             | Emerging Tech Talk Webinar                                                                                            | Signature Not Verified                                            | Online          | 18         |                   |

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 Dean - Research  
 JSS Science & Technology University  
 JSS Technical Institutions' Campus  
 Mysuru - 570 006, Karnataka



|                |                                            |                         |        |          |                   |
|----------------|--------------------------------------------|-------------------------|--------|----------|-------------------|
| Jun-2021       | Hackathon                                  |                         | Online | 5        |                   |
| Jul-2021       | Workshop on 'Cloud Security'               |                         | Online | 12       | Brochure attached |
| Aug - Sep 2021 | Workshop on 'C++'                          |                         | Online | 27       | Brochure attached |
| 2022           |                                            |                         |        |          |                   |
| Jul-2022       | Short term projects (Business Line)        | Lovleen Chandana Deepti | 8      | 40       |                   |
| Nov-2022       | Board of Studies                           | Venkatasubramanian B    |        | 3        |                   |
| 2023           |                                            |                         |        |          |                   |
| Jun-2023       | Campus to Corporate: A Soft skill training | Indumathi R             | 40     | 4        |                   |
| Jun-2023       | Short term projects (Business Line)        | Renganayaki             | 4      | 6 months |                   |
| Nov-2023       | Short term projects (Business Line)        | Rajat                   | 2      | 6 months |                   |
| Dec-2023       | Board of Studies                           | Venkatasubramanian B    |        | 2.5      |                   |

Best Regards,

Chandrakala Mallikarjunaiah

Project Manager,

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To: "Chandrakala Mallikarjunaiah (Nokia)" <chandrakala.mallikarjunaiah@nokia.com>  
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Dean - Research  
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0102240410524

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Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.

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Tue, Jan 16, 2024 at 5:46 PM

[Quoted text hidden]

Wed, Jan 17, 2024 at 10:39 AM

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**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.





- Constituent College of JSS Science and Technology University
- Approved by A.I.C.T.E
- Governed by the Grant-in-Aid Rules of Government of Karnataka
- Identified as lead institution for World Bank Assistance under TEQIP Scheme



## REPORT

### **TEQIP-III sponsored 2-day workshop on “Water Conclave – for a better future” on 15<sup>th</sup> and 16<sup>th</sup> March, 2021**

The Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University (JSSSTU), Mysuru hosted TEQIP-III sponsored 2-day workshop on “Water Conclave – for a better future” on 15<sup>th</sup> and 16<sup>th</sup> March, 2021.

The broad themes included Urban and rural water demands, Water quality, Financing water infrastructure and water pricing, Agriculture water management for livelihood improvement, Surface water quality/ health for better water management, Safe drinking water supplies, Mathematical models for water resources management and Climate change and its impact on water resources.

With the blessings of his Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji, the program was inaugurated on 15th March 2021 in Golden Jubilee Bhavan at JSSSTU campus at 9:45 am.

Prof. Kavi Mahesh, Director, IIIT-Dharwad, highlighted the application of data analytics in predicting onset of monsoon rains in India and also discussed interesting correlation of rainfall with luni-solar calendar. He also reminded our ancient culture that depicts the importance of water and the ways of guarding its sacredness.

Dr. C. G. Betsuremath, Executive Secretary, JSSMVP, expressed that our water resources have been depleted and polluted for various reasons. A balance has to be maintained between the water availability and water required through competent research, development, and implementation. Prof. B. Suresh, Pro-Chancellor, JSS AHER highlighted the requirement of efficient resource management to cater to the needs of our huge and growing population. He talked about various activities on water and environment domain at JSS AHER. The upcoming national water policy is of great interest in terms of water stewardship and citizen water literacy. Prof. Basant Maheshwari from Western Sydney University, highlighted involvement of local citizens in water management. Prof. Siddaramaiah, Vice-Chancellor (Acting) delivered presidential address highlighting the importance of water element among the five elements of life and application of smart technology for water conservation, recycle and management. JSS STU is dedicated to work towards a better life for the community.

There were over 150 participants including faculty and researchers from JSSSTU and other institutions, practitioners, consultants, and 7 resource persons from Australia and 16 experts from India are going to share their rich experience. The topics



This event is an initiative towards Australia India Water Centre to which 15 Indian and 9 Universities/Organizations from Australia are partners.



Dr. Pushpa Tuppad,  
Associate Professor

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Phone=+915323699999;C=IN;A=1629877;Idd08Hf89c15c36e9252c3ca1  
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**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.

Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka





**JSS**  
SCIENCE AND  
TECHNOLOGY  
UNIVERSITY  
MYSURU

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**DIAMOND JUBILEE YEAR :: 1963 - 2023**

## DEPARTMENT OF ENVIRONMENTAL ENGINEERING



### Report

on

Meeting of the partners of **Australia India Water Centre (AIWC)**

held during 23<sup>rd</sup> - 24<sup>th</sup> November 2022 at, ICAR, PUSA, Delhi.

A partner meeting of **Australia India Water Centre (AIWC)** was held from 21-24 November 2022 (Monday – Thursday) in Delhi. The meeting was attended by Dr. Sadashiva Murthy B M, Prof. & Head and Dr. Pushpa Tuppada, Associate Professor, Dept. of Environmental Engg., SJCE, JSSSTU, Mysuru on Wednesday, 23/11/2022 and Thursday, 24/11/2022 held at **ICAR, National Agricultural Science Complex, Pusa, Delhi.**

This was a great opportunity to meet, in person, the AIWC partners from India and Australia. Brain storming discussions were held, particularly focussing on developing an action plan to take the AIWC collaboration in research, education, training and outreach to the next level.

### Meeting agenda in brief:

| Date                   | Morning (10:00 am to 1:00 pm)                                                                                                                                                                    | Afternoon (2:00 pm to 5:00 pm)                                                                           |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Wednesday 23 Nov, 2022 | <b>YWP Presentation &amp; Ceremony</b> <ul style="list-style-type: none"> <li>• Welcome address</li> <li>• Award of certificates to YWP</li> <li>• Closing remarks and vote of thanks</li> </ul> | <b>AIWC Partners meeting -</b><br>Presentation by Partners on AIWC achievements; Welcome to new Partners |
| Thursday 24 Nov, 2022  | <b>AIWC Partners meeting – Review</b><br>of projects, activities and achievements                                                                                                                | <b>AIWC Partners meeting –</b><br>Review of meeting and planning for future projects and activities      |

A detailed discussion was held on what partners will contribute to AIWC. Suggestions were deliberated on activities for future collaboration. The following is the summary of the discussions held.

- Details of AIWC's Joint Master's program including the curriculum were discussed and suggestions were sought.
- AIWC board and its structure were presented.
- AIWC Website which is ready and shortly to be released /shared with the partners for updates and edits.
- Creation of **Special Interest Group (SIG)** to streamline the various expertise in water domain.
- A monetary contribution of Rs.50,000/- (**Rupees Fifty Thousand only**) from each of the **Indian partners was sought** - to be used to cover expenses towards staff handling, administration, data maintenance, and miscellaneous expenses in connection with general AIWC activities.

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Phone=9193000874641420957ae/09090901033007096ea45d76c24f  
43c674080909d41420957ae, O-JSS SCIENCE AND  
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**Dr. Vanish Kumar** B.E., M.Tech., Ph.D.  
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### Suggestions given by JSSSTU

- Continue with the next batch of student virtual exchange program
- Continue with the next batch of Young Water Professional program
- Involve UG and PG students in field based projects either independently or in association with local NGOs working in water sector
- Organize 'Ideathon' event

### **Initiatives by JSSSTU as to our involvement and contribution to AIWC activities**

- Involve in the next batch of student virtual exchange program, as was done in the previous program
- Involve in the next batch of Young Water Professional program
- Organize a 2-day workshop on water future
- Develop/lead a SIG
- Work out the possibilities of including the option (in the MTech curriculum) of earning some credits from AIWC courses
- Explore research collaboration with the partners of AIWC

## Pictures from the 2-day meeting of AIWC partners



**Mr. Allan Poon, Office of Australian High Commission, Professor Deborah Sweeny, Dy. Vice-Chancellor of Western Sydney University, Ms. Debashree Mukherjee, Special Secretary, DOWR, RD & GR, Ministry of Jal Shakti, Mr. Anand Mohan, Joint Secretary, DOWR, RD & GR, Professor T.G. Sitharam, Director, the Indian Institute of Technology, Guwahati, Prof. BasantMaheshwari, Professor, Western Sydney University, Australia – briefing about the session hosting the presentations by 10 YWP groups**

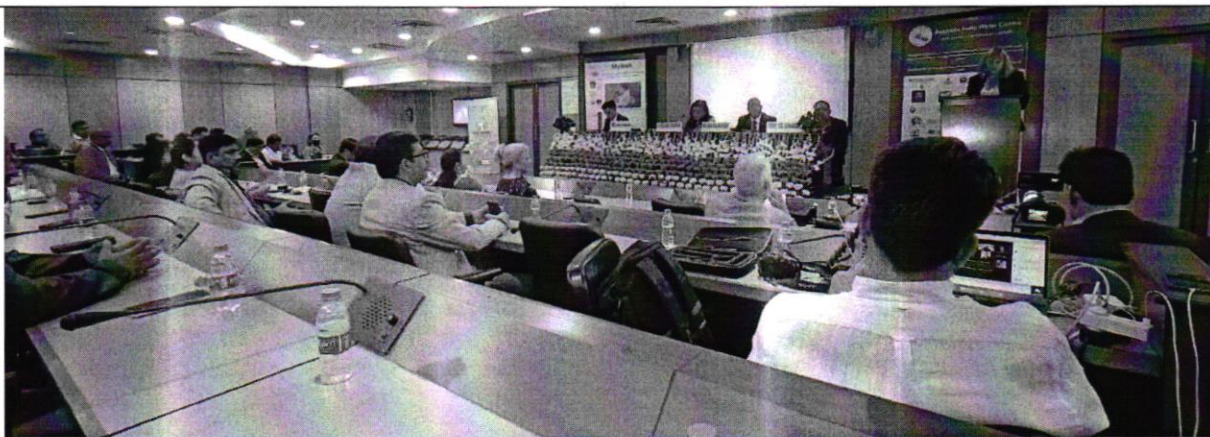
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TECHNOLOGY UNIVERSITY,CN=

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**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
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Department of Information Science and Engineering  
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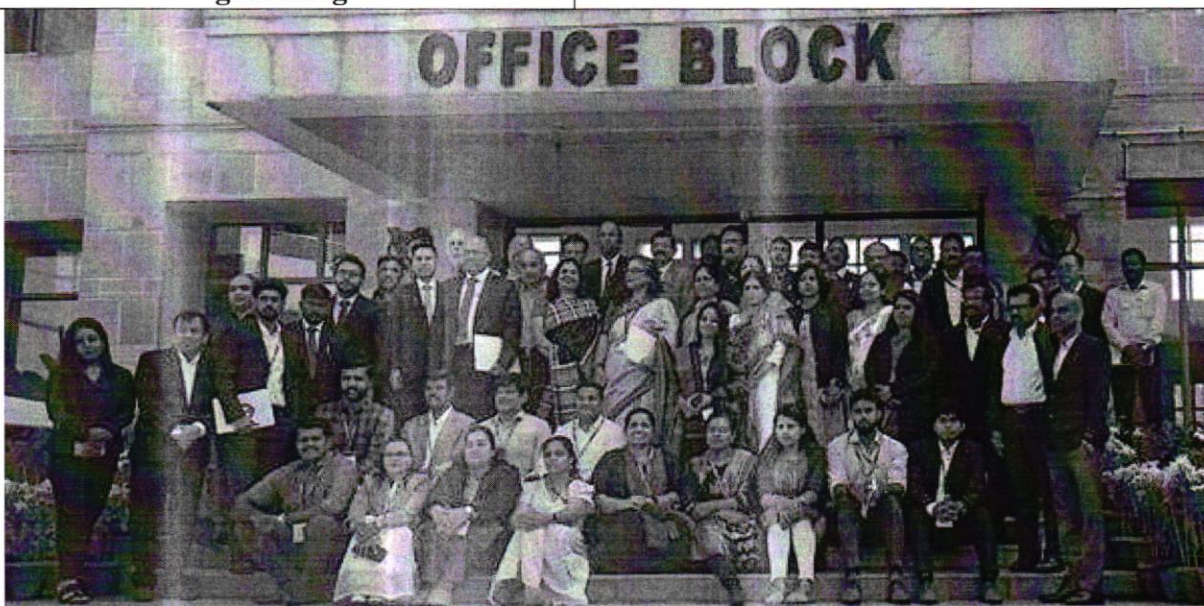
**Professor Deborah Sweeny, Dy. Vice-Chancellor of Western Sydney University addressing the august gathering**



**Professor T.G. Sitharam, Director, the Indian Institute of Technology, Guwahati addressing the august gathering**



**Presentation of certificate to YWP**



**Dignitaries, delegates and YWPs**

*Dr. Research*  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

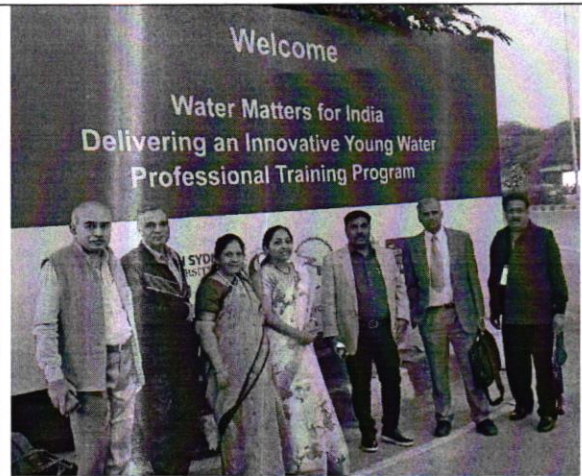
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Mysuru - 570 006, Karnataka

*Dr. Vanishri Arun* B.E., M.Tech., Ph.D.  
Associate Professor  
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JSS Science and Technology University  
Mysuru - 570 006, India.





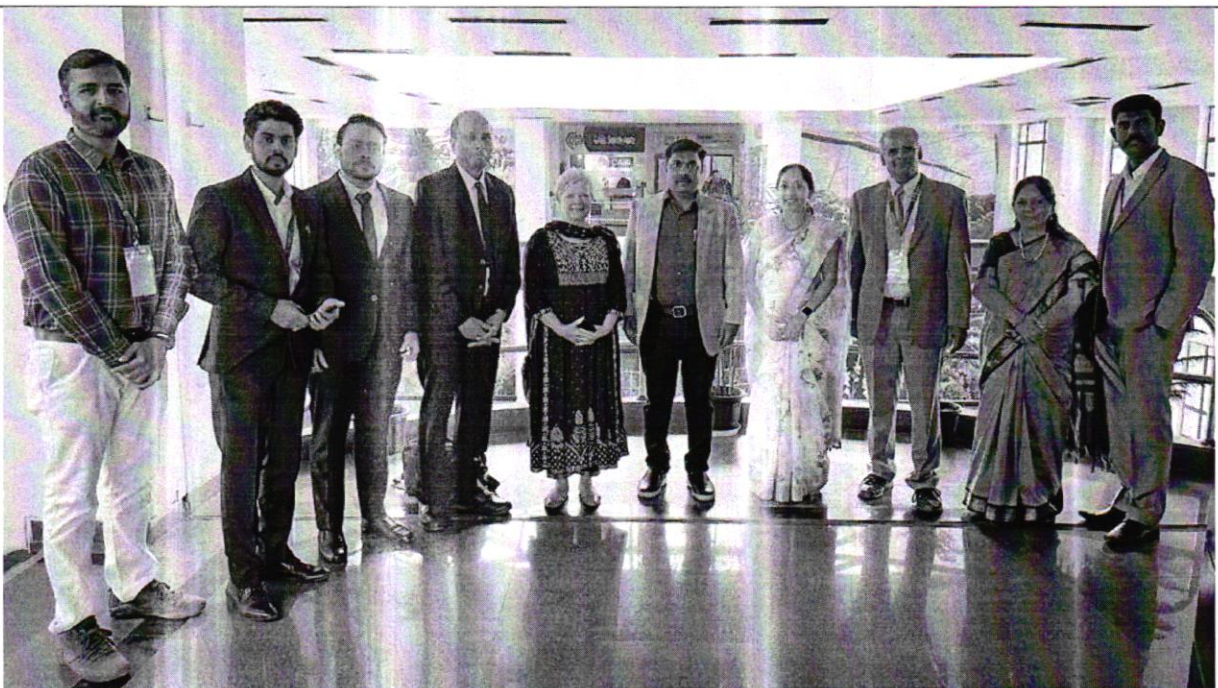
Round Table discussions covering the agenda of the meeting



@ the entrance to the venue



Round Table discussions covering the agenda of the meeting



Signature Not Verified.

**Dr. Vanishri Arun B.E.** *Vanishri Arun*

Associate Professor

Department of Information Science and Engineering

JSS Science and Technology University

Mysuru - 570 006, India.

01.02.2024 19:39

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**AUSTRALIA INDIA  
WATER CENTRE (AIWC)**

Delegates from partner institutions of AIWC

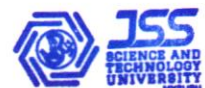
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Phone=66cd26d8674c148d7967f1dd089bc15c36e925263ca1  
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Technology University

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Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 003, Karnataka



## Brief Progress Report on MOU with Valles Marineris, Chennai

Date: 02 Nov 2022

Date of MOU signed: 21<sup>st</sup> Feb 2019

Duration: 5 years

Objectives:

- Partner and collaborate
- Provide framework for collaborative activities and review areas of common interest - space technologies, education and science
- Facilitate interchange of information, technology and personnel in areas of mutual interest
- Nominate relevant points of contact

| Activities Completed                                                                         | Remarks                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Proposal to Design, Build Nanosatellite (JNANAM) presented to Board of Management March 2022 | In principle approval for the project was given by Board of Management.                                                                                                                                                                                                                                                                               |
| Technical Workshop- Phase 1 (9 <sup>th</sup> May to 12 <sup>th</sup> May 2022)               | All basic concepts required for nanosatellite were covered. Speakers included: Dr Rangarajan (Former Director, ISRO), Jayakumar V (CEO, Valles Marineris), M. Pichaimani (Former Operations Director, Chandrayan (ISRO)), Parameswaran (Former Director, ISRO)<br><br>Participants: Team of students and faculty of JSSSTU, JSSATEB, JSSATEN, JSSAHER |
| Domain Team formation                                                                        | Following six teams have been formed with members of all the four institutions: Mechanical and Thermal Team, Sensor and Instrumentation Team, Power Systems, Control Systems, Communication and Software.                                                                                                                                             |
| Books and Literature on Cubesat                                                              | Provided to all team members of JSSSTU, JSSATEN, JSSATEB, JSSAHER through library services of respective institutions.                                                                                                                                                                                                                                |
| Procurement Process                                                                          | Quotation received from Valles Marineris for Rs 67 lakh, for various subsystems and components.                                                                                                                                                                                                                                                       |

Dean - Research  
JSS Science & Technology University  
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### Ongoing Activities:

| On going Activities                                                | Remarks                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Space Systems Engineering Course</b><br><br><b>Oct-Nov 2022</b> | <p>Online course offered by BRICS going on from 4<sup>th</sup> Oct to 3<sup>rd</sup> week of November 2022; classes are conducted twice in a week.</p> <p>Team members from JNANAM are attending regularly and course material is being uploaded in their group portal.</p>                    |
| Preliminary design                                                 | <p>Design specifications completed 80%</p> <p>Team meetings happening at regular interval</p> <p>JNANAM Concept note with specification details prepared.</p>                                                                                                                                  |
| Procurement Process<br><br>Nov 2022                                | Taking opinion from experts in ISRO about technical feasibility and pricing.                                                                                                                                                                                                                   |
| Domain Team Meetings held                                          | <ul style="list-style-type: none"> <li>Sensor Team (June 7, 2022)</li> <li>Meeting of Dr Jayakumar (Valles Marineris) with JSSSTU student team (July 4, 2022)</li> <li>Power systems Team (July 21, 2022)</li> <li>Communication Systems Team (Aug 5, 2022)</li> <li>(Oct 07, 2022)</li> </ul> |

### Activities planned for future are explained below:

| Activities of future         | Remarks                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Continue with team meeting   | Throughout Project; at regular intervals.                                                                                                                          |
| Preliminary design.          | Completed upto 80%. Specification details of all subsystems and modules finalized up to lowest level.                                                              |
| Complete procurement Process | Dec 2022; Implementation of Engineering model to begin.                                                                                                            |
| Establishment of JNANAM Lab  | Jan 2023: An exclusive lab place is being identified in JSSSTU to establish laboratory for students and faculty to work on design and implementation of satellite. |

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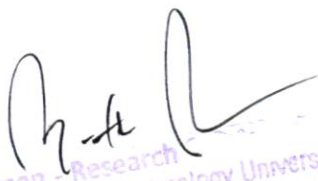
Dr. Arun B.E., M.Tech., Ph.D.  
Professor  
Department of Information Science and Engineering  
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Mysuru - 570 006, India.

|                                                                  |                                                                                                |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Complete the building of Engineering Model; Work on flight model | March 2023                                                                                     |
| Complete the Flight Model                                        | April 2023                                                                                     |
| Testing and delivery of Nanosat to ISRO                          | May 2023                                                                                       |
| Publish reports, articles in Journal                             | June 2022 – Dec 2023                                                                           |
| Propose new project                                              | January 2024:<br>JNANAM – 2 cubesat; based on the knowledge and experience gained by JNANAM -1 |

Dr Sudarshan Patilkulkarni

Coordinator

  
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Dr. Vanishri Arun B.E., M.Tech., Ph.D.  
Associate Professor  
Department of Information Science and Engineering  
JSS Science and Technology University  
Mysuru - 570 006, India.



### **Brief Progress Report on MOU with Valles Marineris, Chennai**

**Date: 31 March 2023**

Date of MOU signed: 21<sup>st</sup> Feb 2019

Duration: 5 years

### Objectives:

- Partner and collaborate
- Provide framework for collaborative activities and review areas of common interest - space technologies, education and science
- Facilitate interchange of information, technology and personnel in areas of mutual interest
- Nominate relevant points of contact

| Activities Completed                                                                         | Remarks                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Workshop Nanosatellite Technology</b>                                                     | 16 <sup>th</sup> Sept 20 <sup>th</sup> Sept 2019<br><br>Eminent scientists of ISRO and space technology industry covered various topics related to satellite design and development.                                                                                                                                                                  |
| Proposal to Design, Build Nanosatellite (JNANAM) presented to Board of Management March 2022 | In principle approval for the project was given by Board of Management.                                                                                                                                                                                                                                                                               |
| Technical Workshop- Phase 1 (9 <sup>th</sup> May to 12 <sup>th</sup> May 2022)               | All basic concepts required for nanosatellite were covered. Speakers included: Dr Rangarajan (Former Director, ISRO), Jayakumar V (CEO, Valles Marineris), M. Pichaimani (Former Operations Director, Chandrayan (ISRO)), Parameswaran (Former Director, ISRO)<br><br>Participants: Team of students and faculty of JSSSTU, JSSATEB, JSSATEN, JSSAHER |
| Domain Team formation                                                                        | Following six teams have been formed with members of all the four institutions: Mechanical and Thermal Team, Sensor and Instrumentation Team, Power Systems, Control Systems, Communication and Software.                                                                                                                                             |
| Books and Literature on Cubesat                                                              | Provided to all team members of JSSSTU, JSSATEN, JSSATEB, JSSAHER through library services of respective institutions.                                                                                                                                                                                                                                |
| Procurement Process                                                                          | Quotation received from Valles Marineris for Rs 67 lakh, for various subsystems and components.                                                                                                                                                                                                                                                       |

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### Ongoing Activities:

| On going Activities                                                | Remarks                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Space Systems Engineering Course</b><br><br><b>Oct-Nov 2022</b> | <p>Online course offered by BRICS going on from 4<sup>th</sup> Oct to 3<sup>rd</sup> week of November 2022; classes are conducted twice in a week.</p> <p>Team members from JNANAM which include faculty and students from JSSSTU, JSSATEB, JSSATEN are attending regularly and course material is being uploaded in their group portal.</p> |
| <b>Preliminary design</b>                                          | <p>Design specifications completed 80%</p> <p>Team meetings happening at regular interval</p> <p>JNANAM Concept note with specification details prepared.</p>                                                                                                                                                                                |
| <b>Procurement Process</b><br><br><b>Nov 2022</b>                  | <p>Taking opinion from experts in ISRO about technical feasibility and pricing.</p>                                                                                                                                                                                                                                                          |
| <b>Domain Team Meetings held</b>                                   | <ul style="list-style-type: none"> <li>• Sensor Team (June 7, 2022)</li> <li>• Meeting of Dr Jayakumar (Valles Marineris) with JSSSTU student team (July 4, 2022)</li> <li>• Power systems Team (July 21, 2022)</li> <li>• Communication Systems Team (Aug 5, 2022) (Oct 07, 2022)</li> </ul> <p>Conducting weekly</p>                       |

### Activities planned for future are explained below:

| Activities of future       | Remarks                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------|
| Continue with team meeting | Throughout Project; at regular intervals.                                                             |
| Preliminary design.        | Completed upto 80%. Specification details of all subsystems and modules finalized up to lowest level. |
| Procurement Process        | March-May 2023; Implementation of Engineering model to begin.                                         |

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 Associate Professor  
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 JSS Science and Technology University  
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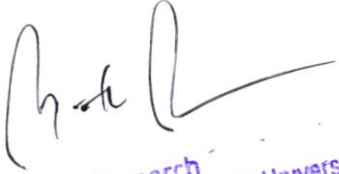
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 Mysuru - 570 006, Karnataka



|                                                                     |                                                                                                                                                                      |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Establishment of JNANAM Lab                                         | April 2023: An exclusive lab place is being identified in JSSSTU to establish laboratory for students and faculty to work on design and implementation of satellite. |
| Complete the building of Engineering Model;<br>Work on flight model | May 2023                                                                                                                                                             |
| Complete the Flight Model                                           | July 2023                                                                                                                                                            |
| Testing and delivery of Nanosat to ISRO                             | August 2023                                                                                                                                                          |
| Publish reports, articles in Journal                                | June 2022 – Dec 2023                                                                                                                                                 |
| Propose new project                                                 | January 2024:<br><br>JNANAM – 2 cubesat; based on the knowledge and experience gained by JNANAM -1                                                                   |

Dr Sudarshan Patilkulkarni

Coordinator

  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
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**Dr. Vanishri Arun** B.E., M.Tech., Ph.D.  
Associate Professor  
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Mysuru - 570 006, India.

**Brief report**  
**on**  
**International collaboration with St. Petersburg State Electrotechnical University**  
**"LETI", Saint Petersburg, Russia**

Dr. Yulia Shichkina, a distinguished expert holding a Doctorate in Technical Sciences and serving as the Head of the Department for "Technologies of Artificial Intelligence in Physiology and Medicine" within the International Innovation Institute on Artificial Intelligence, Cybersecurity, and Communications (Popov Institute) at St. Petersburg State Electrotechnical University "LETI" in Saint Petersburg, Russia, was extended an invitation to join as an Adjunct Professor in the Department of Information Science and Engineering at JSS STU, Mysuru. She commenced her tenure on September 15, 2023.

During her time at JSS STU, Prof. Yulia delivered an enlightening expert lecture on **"TRENDS IN THE ADVANCEMENT OF AI AND ITS PRACTICAL APPLICATIONS"** on October 4, 2023, at 4:00 pm in the PG Lecture Hall of the Department of Information Science and Engineering. The lecture garnered active participation from research scholars and faculty across various departments.

To foster academic interaction, Prof. Yulia initiated a Summer School focused on **"Artificial and Co-Evolutionary Hybrid Intelligence and Their Applications"**. She engaged with students, provided capstone projects, conducted meetings, and offered guidance on the topic of "Co-Evolutionary Hybrid Intelligence." The collaboration resulted in the development of conference and journal publications.

The following research works have emanated from these collaborative efforts:

- Vimarsha K, S.P.Shiva Prakash, Kirill Krinkin, Yulia A. Shichkina, **"Student Performance Prediction: A Co-Evolutionary Hybrid Intelligence model"**, International Conference on Machine Learning and Data Engineering (ICMLDE 2023), Procedia Computer Science, Elsevier (Scopus Indexed), Nov 2023, Presented- Yet to publish.
- Madhan Kumar G. S, Shiva Prakash S. P., Kirill Krinkin, Yulia A. Shichkin, **"Co-Evolutionary Hybrid Intelligence Decision Model for Device Argumentation in Ambient Assisted Living"**, Engineering Applications of Artificial Intelligence, Elsevier journal (Scopus Indexed)- Under review

Additionally, Prof. Yulia contributed to academia by crafting a syllabus for a new course titled **"Artificial and Co-Evolutionary Hybrid Intelligence and Their Applications,"** which can be offered as an elective course to students.

Regrettably, Prof. Yulia had to leave the department on November 3, 2023, due to the sudden and tragic demise of her daughter in Russia. Despite this unfortunate turn of events, her visit significantly enriched the knowledge of students, research scholars, and faculty within the department. Gratitude is extended to the management for providing the opportunity to invite Prof. Yulia as an Adjunct Professor, with the hope that future collaborations could yield more impactful works.

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## Draft Syllabus-Yet to be approved

### Course Title: Artificial and Co-Evolutionary Hybrid Intelligence and Their Applications

**Abstract.** The course is designed to teach students the technology of creating intelligent systems based on the concept of co-evolutionary hybrid intelligence. It describes the basic concepts of Co-Evolutionary Hybrid Intelligence (CHI) and cognitive architecture for its implementation. A detailed discussion for each block of the architecture is provided including methods and implementation details. The last part of the course presents the applications of co-evolutionary hybrid intelligence. The course includes practical exercises to reinforce the theoretical material. In order to obtain the skills of designing intelligent systems based on the concept of CHI, students shall be doing capstone projects in teams. The course is structured in such a way as to give students a comprehensive understanding of the process and approaches to the design of a new generation of intelligent systems.

Total Teaching and Practical Hours: 24+24=48 Hours

No. of Credits: 04

Course Outcomes:

**The students should be able to:**

CO1 To know the principles of co-evolutionary hybrid intelligence, principles of cognitive architecture organization; fundamental concepts and theories of knowledge representation and processing; basic tools of co-evolutionary hybrid intelligence.

CO2 Ability to realize knowledge representation models (including their symbiosis); neural network model architectures; neural network training algorithms; evolutionary algorithms; soft computing and machine learning methods; to apply these models, methods and approaches to implement the cognitive architecture and solve various problems based on the concept of co-evolutionary hybrid intelligence.

CO3 Skills of applying methods of co-evolutionary hybrid intelligence to solve various problems; skills of working with information under conditions of uncertainty, redundancy and insufficiency of input data; skills of applying various knowledge models in practice, skills of designing systems based on the concept of co-evolutionary hybrid intelligence.

### Contents

#### 1. The genesis of AI

**2 hours**

History and genesis AI from Dartmouth seminar till nowadays. Augmenting Human Intelligence. Engelbart Framework. Intelligent measurements. Hybrid intelligence.

#### 2. Introduction to CHI and Cognitive architectures

**1 hour**

Cognitive interoperability and Co-modelling. Co-evolutionary Hybrid Intelligence. Cognitive architecture definition. Cognitive functions and their implementation. Perception-Cognition

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**Dr. V. Srinivas**, M.Tech., Ph.D.  
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of a semantic network. Inference with a semantic network. Applications of semantic networks in applied tasks.

**6. Specific components of the cognitive architecture for CHI**

**1 hour**

Multi-Modal Data and Methods Used in Data Analysis. Hybrid System Identification and Dynamic System Identification Methods. Activity Models (behavioural models). Digital twins. Generative AI. Decision Making and Action Planning. Execution and Control.

**7. Cognitive interface and feedback**

**1 hour**

User Interface and User Experience. Immersive technologies overview. Biofeedback. Neuro-link. Metaverses technologies.

**8. Co-evolutionary Hybrid Intelligence Applications**

**2 hours**

Human-machine interaction modalities. Collaborative Human-machine decision-making. CHI for Healthcare. CHI for Personal assistance. CHI for Management of comprehensive systems with high safety requirements. CHI for Autonomous systems. CHI for Scientific research. Co-Evolutionary Data/Knowledge Models.

**9. Practical exercises 12 hours**

**10. Capstone project 12 hours**

**Text Books:**

1. Ronald Brachman, Hector Levesque, Knowledge Representation and Reasoning, 2004
2. Charu C. Aggarwal, Neural Networks and Deep Learning: A Textbook, Springer, 2018
3. Charu C. Aggarwal, Data Mining: The Textbook, Springer, 2015
4. A Framework for Representing Knowledge Marvin Minsky. MIT, 1974
5. I. Goodfellow and Y. Bengio and A. Courville Deep Learning MIT Press, 2016
6. J. Pearl Causality: Models, Reasoning and Inference 2nd Edition CU Press, 2009

**Extra readings:**

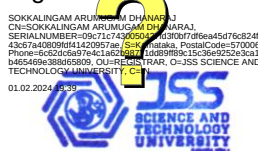
1. Francois Chollet, Deep Learning with Python, 2018
2. Sudharsan Ravichandiran, Hands-On Deep Learning Algorithms with Python: Master deep learning algorithms with extensive math by implementing them using TensorFlow Paperback, Packt Publishing, 2019
3. Alain Petrowski, Sana Ben-Hamida, Evolutionary Algorithms (Computer Engineering: Metaheuristics), Wiley-ISTE, 2017
4. M. W. Steenson How Designers and Architects Created the Digital Landscape MIT Press 2022
5. M. Minsky The Emotion Machine: Commonsense Thinking, Artificial Intelligence, and the Future of the Human Mind, Simon & Schuster, 2007

**Online materials**

1. <https://www.dougenelbart.org/pubs/augment-3906.html>
2. <https://www.deeplearningbook.org/>
3. <https://www.stateof.ai/>

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JSS MAHAVIDYAPEETHA

JSS SCIENCE AND TECHNOLOGY UNIVERSITY  
SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING  
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING



EXPERT LECTURE

ON  
**TRENDS IN THE ADVANCEMENT  
OF AI AND ITS PRACTICAL  
APPLICATIONS**

● Oct, 04th 2023 4.30PM.

Venue : PG Lecture Hall

**ABOUT THE SPEAKER**

Dr. Shichkina Yulia, Doctor of Technical Sciences, is a Head of the Department "Technologies of Artificial Intelligence in Physiology and Medicine" as part International Innovation Institute on Artificial Intelligence, Cybersecurity, and Communications (Popov Institute) of the St. Petersburg State Electrotechnical University "LETI". Her research interests include mathematical modeling, Human-machine interface, AI and its application in subject domains; parallel computing on MPP and SMP systems; optimization of access to databases. Under her leadership, international projects have been and are currently being implemented: USA "Safety applications enabled by Internet-of-Things infrastructure and big data analytics", Cuba "Creation of information and technological support for the study of Parkinson's disease, taking into account the collection and processing of large-scale data in real time" and Russian projects: "Creation of domestic high-tech production of vehicle security systems based on a control unit and intelligent sensors, including millimeter radars in the 76-77 GHz range", «Development of the world-class scientific center «Pavlov center «Integrative physiology for medicine, high-tech healthcare, and stress-resilience technologies»» Over the past 5 years, 2 monographs, more than 50 articles have been published, and 11 certificates of state registration of computer programs have been received.



**Prof. Iuliia Shichkina**

Adjunct Professor

Department of Information  
Science and Engineering,  
JSSSTU, Mysuru

**Research interests**

- Mathematical modeling,
- Parallel computing on massively parallel processing and symmetric
- multiprocessing systems;
- Database access optimization;
- Artificial Intelligence, co-evolutionary hybrid intelligence
- Applications for Artificial Intelligence

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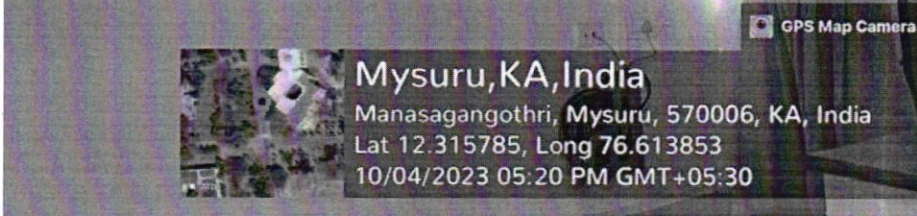
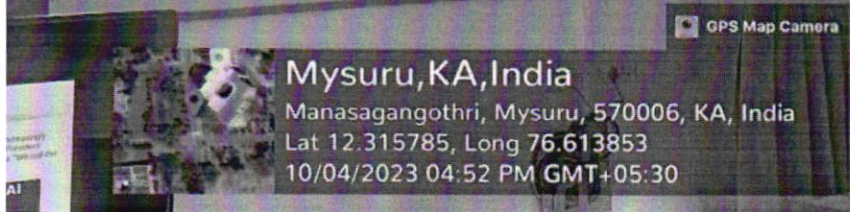
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**JSS**  
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TECHNOLOGY  
UNIVERSITY  
MYSURU

- Constituent College of JSS Science and Technology University
- Approved by A.I.C.T.E
- Governed by the Grant-in-Aid Rules of Government of Karnataka
- Identified as lead institution for World Bank Assistance under TEQIP Scheme



## Department of Polymer Science and Technology

### Report on Activities under MOU between institutes/industries during 2018-2023

#### International Institute

##### Jeonbuk National University, Jeonbuk, Republic of Korea

Professors from Jeonbuk National University (JBNU) were resource persons for ICMAT-2020 International Conference and also serve as advisory members of technical events. Mr. Chandan Gudal, a graduate from dept. of PST pursued his master degree at JBNU. Dr. Somesh T. E., a PhD candidate from PST dept. under Prof. Siddaramaiah, is now pursuing his post-doctoral research program at JBNU.

#### National Institute

##### Indian Rubber Institute (IRI), Kolkata

A Centre of Excellence in rubber technology has been established at JSSSTU campus. It is a skill development center to carry out academic programs, research and training. One day online workshop on "Rubber Compounding Technology" was organized on 23/09/2022. Faculty members from PST are members of management committee and education committees of IRI. Dr. S. Roopa, HOD-PST is serving as chairperson, Education committee, IRI-Karnataka branch. IRI supports the technical events of PST and Faculty members from PST regularly handle IRI classes of PG Diploma certificate course.

#### Industries

##### Toyoda Gosei South India Pvt., Ltd., (TGSIN), Bidadi

TGSIN regularly supports dept. of PST to conduct workshops, symposium, FDP, alumni meet, student mentoring by serving as expert resource member. Mr. Lohith, B.E. graduate (2018 batch) from PST was placed in TGSIN. Mr. Rahul Devang (M.Tech in PST candidate) carried out his industrial training / internship and the project work at TGSIN during 2021-22. Mr. Askar (2022 batch) was placed in TGSIN.

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(Chandresh M.R.)  
Activity Coordinator



**JSS**  
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UNIVERSITY  
MYSURU

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JSS Technical Institutions' Campus  
Mysuru - 570 008, Karnataka



## Asian Polymers, Mandya

Dept. of PST undertakes the consultancy works: testing and characterization works related to research materials from Asian Polymers.

**M/s. Hollingsworth & Vose Advanced Materials (India) Private Limited, Nanjungud**

Dept. of PST undertakes the consultancy works of H&V (SEM and XRD); Members from H&V served as resource persons for workshops and conference organized by PST. Three of the pre-final year BE students underwent industrial training at H&V during August 2022. Two of the H&V industrial experts are in BOE panel of dept. of PST. Two of PST graduates are working at H&V.

**M/s Ujwal Industrial Corporation (UIC), Myuru**

The Department of PST and UIC have completed about 7 UG industrial projects and 2 PG projects till date. Three of the PST graduates were hired by UIC.

Attested

**Dr. S. Roopa**

**Assoc. Prof & Head**

Professor and Head  
Department of Polymer Science & Technology  
S.J.College of Engineering  
MYSORE - 570 006

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(Chandresh M.P.)  
Activity Coordinator

## Activity Coordinator



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## JSS Centre for Management Studies

### JSS Science and Technology University, Mysuru

Report on activities conducted/planned with Malaysia University of Science and Technology as a part of Memorandum of Understanding between JSSCMS, JSSSTU and MUST, Malaysia.

| Sl No | Activities Conducted/Planned                                   | Date                | Remarks                                                                                                                                                                                                                                                          | Dates of Communication                                                                                                                         | Remarks                                                          |
|-------|----------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1.    | MoU Signing Ceremony between JSSCMS, JSSSTU and MUST, Malaysia | 9-12-2021           | MoU Signing Ceremony between JSSCMS, JSSSTU and MUST, Malaysia was held virtually in the presence of University Authorities of both the universities. Universities planned to work on the areas of mutual interest in research, academic collaborative programs. |                                                                                                                                                | -                                                                |
| 2.    | "Meet and Greet" interactive session                           | 12-5-2022           | A virtual interactive session "Meet and Greet" was held MUST, Malaysia and JSSCMS to get to know about MUST and working towards areas of common interest.                                                                                                        | 14.1.2022<br>28.1.2022<br>6.4.2022<br>8.4.2022<br>[Communications were regarding the finalization of dates feasible for both the universities] | Conducted virtually with the faculties of both the universities. |
| 3.    | Guest Lecture on "Fundamentals of Digital Marketing"           | 26-8-2022 (planned) | Awaiting for response from the University Authorities of MUST.<br>(Communicated to                                                                                                                                                                               | 8-6-2022<br>5-8-2022<br>12-8-2022                                                                                                              | -                                                                |

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JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

Professor and HoD  
JSS Centre for Management Studies  
JSS Science and Technology University  
JSS Technical Institutions' Campus  
Mysuru-570 006



|    |                                                                                          |                        |                                                                                                                                                                                                                                                                                         |                                  |                                                                                                                                   |
|----|------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                          |                        | MUST on 12.8.2022)<br><br><b>Response from MUST</b><br>MUST responded on 15.8.2022, stating that it is not possible from their end to attend the Guest Lecture because of long term semester and face-to-face classes commencing for their students from 22 <sup>nd</sup> August, 2022. |                                  |                                                                                                                                   |
| 4. | Guest Lecture on "Fundamentals of Digital Marketing"                                     | 3-9-2022 (Rescheduled) | Awaiting for response from the University Authorities of MUST.<br>(Communicated to MUST on 24.8.2022)                                                                                                                                                                                   | 26-8-2022                        | MUST declined the request, due to commencement of semester classes and other activities planned at their university.              |
| 5. | Invited as Collaborative Partners to attend the Convocation Ceremony of MUST, Malaysia.  | 5-11-2022              | Convocation Ceremony was attended virtually.                                                                                                                                                                                                                                            | 3-11-2022 ( From MUST, Malaysia) |                                                                                                                                   |
| 6. | Invited to participate in QS Global Academic Survey as Collaborative Partners            | 31-1-2023              | QS Global Academic Survey was completed by JSSCMS                                                                                                                                                                                                                                       | 7-2-2023                         |                                                                                                                                   |
| 7. | Proposal for Student/Faculty Exchange Program and Co-Hosting an International Conference | 2-2-2023               | A proposal was put forward with MUST, regarding Student/Faculty Exchange Program and Co-Hosting an International Conference.<br>An online Discussion with the authorities                                                                                                               | 2-2-2023                         | MUST reverted back positively to the proposal. Online meeting regarding the same is scheduled on 17 <sup>th</sup> February, 2023. |

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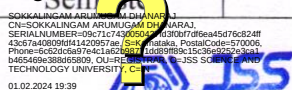


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JSS Technical Institutions Campus  
Mysuru-570 006



|    |                                                                                     |            |                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                        |
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|    |                                                                                     |            | planned to proceed further with the proposal.                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                        |
| 8. | Virtual meeting regarding "Student Exchange Program" and "International Conference" | 17.02.2023 | <p>Virtual meeting was scheduled with the authorities of MUST.</p> <ol style="list-style-type: none"> <li>1. Discussion on Student Exchange Program in the area of Supply Chain Management was proposed.</li> <li>2. Discussion on hosting a Joint International Conference in Hybrid Mode was proposed.</li> </ol>            |  | Final rounds of discussion on the modalities to initiate Student Exchange Program is tentatively scheduled in the month of June, 2023.                 |
| 9. | Virtual meeting regarding "Student Exchange Program" and "International Conference" | 07.06.2023 | <p>Virtual meeting was scheduled with the authorities of MUST and authorities of JSSSTU.</p> <ol style="list-style-type: none"> <li>1. The area of Student Mobility program was decided to be "Sustainable Supply Chain Management" for a duration of 2 weeks tentatively in the month of October 2023, for IV Sem. </li></ol> |  | Student Mobility program was tentatively scheduled to happen in the month of October 2023, and International Conference in the month of December 2023. |

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JSS Technical Institutions Campus  
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|     |                          |            |                                                                                                                                                                                                                                                |                                                                              |                                                                                                                                                      |
|-----|--------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                          |            | students of MBA.<br>2. International Conference on "Digital Transformation" was proposed.                                                                                                                                                      |                                                                              |                                                                                                                                                      |
| 10. | Student Mobility program |            | Scheduled in the month of September 2023.                                                                                                                                                                                                      | 21-7-2023                                                                    |                                                                                                                                                      |
| 11. | International Conference | 22-7-2023  | Proposal submitted to the university (JSSSTU)                                                                                                                                                                                                  |                                                                              | Awaiting for the approval                                                                                                                            |
| 12. | Student Mobility Program |            | Proposal Student Mobility Program for 21 students of MBA( All Branches) and 2 Faculty Members was accepted by MUST and JSSSTU                                                                                                                  | Student Mobility Program Dates( 17.9.2023 to 30.9.2023)                      | Students and Faculty Members were certified with "Supply Chain Landscape" and 15 days of Student Immersion Program on "Supply Chain and Leadership". |
| 13. | International Conference | 21-12-2023 | MUST has invited JSSCMS, JSS STU to be co-partners in the International Conference on "Sustainability and Corporate Governance" in collaboration with MUST, Malaysia and Nguyen Tat Thanh University (NTTU) Vietnam in the month of May, 2024. | 5-1-2024 (Revised Proposal on International Conference submitted to JSS STU) | Proposal is put forward to the university authorities of JSS STU. Awaiting for approval.                                                             |

### Activities Planned

1. Webinar for students and faculties of both the universities on the topic of mutual interest.

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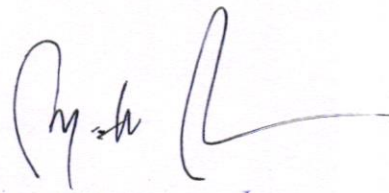
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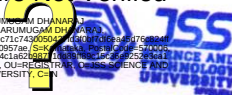
2. Faculty and Student Exchange Programmes.
3. Co-hosting an International Conference.

  
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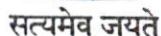
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| Description               | : | MOU                                          |
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## Agreement for Mutual Cooperation

# Zenken

JSS Science and Technology University, Mysuru, India (hereinafter referred to as "A") and Zenken Corporation, Tokyo, Japan (hereinafter referred to as "B") will conclude the following agreement (hereinafter referred to as "this Agreement") as follows. The Parties are hereinafter referred to collectively as "Parties".



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3. In case of any discrepancy please inform the Competent Authority.

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### Article 5 (Roles of A)

- a. Support B in setting up VCC which offers the services prescribed in the preceding article.
- b. Support B in providing a suitable environment/ facilities where students can take web-based placement tests as well as job interviews with the companies from Japan.
- c. Promote VCC and other services offered by B among the students, etc. Jointly enhance public relations activities by producing and distributing promotional materials regarding VCC, placement events, and placement and career support activities of B, etc. through such media as social media platforms, official websites, and external and internal publications, etc. Specifically, post on social media and on its official websites promotional materials where appropriate or where requested by B.
- d. Support B in setting up an incubation center on campus which focuses on the development of technology skills to increase job opportunities in Japan.
- e. Support B in developing jointly the special curriculum or seminars focusing on job opportunities in Japan.
- f. Support B in providing any and all documents related to the visa application process.

1. A authorizes B to use its name, logo, photographs, videos, etc. in promotional materials including but not limited to flyers, brochures, websites and social media such as Facebook, Twitter and Instagram without notice to or consent by A. Such use shall be in accordance with the Confidentiality clause hereunder.
2. A shall not use B's name, trade name, trademark, logo or other designation of B, and photographs and videos in which B's staff appear without B's prior consent. Such use shall be made only to the extent necessary to perform and promote activities hereunder. B may request deletion or modification in case of A's unauthorized use of such materials.
3. A shall not use name, logo, photographs and/or videos of the Japanese companies introduced by B without prior consultation to B.

1. A acknowledges in advance the possibility of B temporarily employing student, etc..
2. A agrees in good faith not to collaborate with corporations or entities other than Zenken in setting up online career platforms similar to ZENKEN VCC and/or on-campus career center designed for any recruiting and/or skilling activities. The

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570-006

- e. a person who is engaged in socially condemnable relationship with the Anti-Social Forces.

3. The Parties shall be entitled to terminate this contract and request for the damages without any notice and any and all obligations of the party owed to the other party shall become due and payable and the other party shall immediately repay such obligations, if the other party breached the representations and warranties in the preceding clause.

#### Article 11(No assignment)

This Agreement shall not be assigned without prior written authorization by the other party to this Agreement. The duties under this Agreement shall not be delegated to other parties.

#### Article 12(Duration)

The term of this Agreement shall be one (1) year from the execution of this Agreement. Thereafter, this Agreement shall be extended automatically for successive periods of one (1) year each unless either party gives the other party notice of non-extension in writing at least sixty(60) days prior to the expiration of the original or any extended term of this Agreement.

#### Article 13 (Good Faith Negotiation)

1. All doubts or differences in connection with this Agreement shall be settled through good faith negotiation between the parties.
2. Any modification(s) or amendment(s) to this Agreement shall be made upon mutual consultation in good faith.

#### Article 14(Arbitration)

All disputes, controversies or differences which may arise between the parties hereto, out of or in relation to or in connection with this Agreement shall be finally settled by arbitration. If arbitration is brought by A, the place of arbitration (including any subsequent arbitration brought while the first arbitration is pending) shall be Tokyo, Japan, and the arbitration shall be administered by the Japan Commercial Arbitration Association. If arbitration is brought by B, the place of arbitration (including any subsequent arbitration brought while the first arbitration is pending) shall be Bengaluru, India, and the arbitration shall be administered by the Arbitration & Conciliation Centre – Bengaluru (Domestic & International).

Signature Not Verified

SIRKALINGAM K. R. DHANARAJ  
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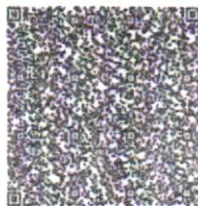




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| Stamp Duty Amount(Rs.)    | : 100<br>(One Hundred only)                        |



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## Memorandum of Understanding (MOU)

This MEMORANDUM OF UNDERSTANDING (MOU) is entered on 12.12.2022 by and between:

- I. **Visteon Technical and Services Centre Private Limited**, a company incorporated under the Companies Act, 1956 with its office at 6th Floor, Block No. A4, No. 16, Gateway Office Parks – SEZ GST Road, Perungalathur, Chennai, Tamil Nadu – 600063 (hereinafter referred to as “VTSC” represented herein by its Senior Director, Sivakumar Songappan
- AND
- II. **JSS Technical Institutions (JSS STU, Mysuru, JSSATE Bengaluru and JSSATE Noida)**, the head office of which is Technical Education Division, JSS Mahavidyapeetha, located at JSS Technical Institutions Campus, Mysuru – 570006, Karnataka hereinafter referred to as “JSS Technical Institutions” represented by its authorized signatory Dr H R Mahadevaswamy

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S. Sivamurthy





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VISTEON TECHNICAL AND SERVICES CENTRE PRIVATE LIMITED

6. Confidential Information shall mean all proprietary information or data furnished by either Party and/or its affiliates before or after the Effective Date hereof, whether written or oral which includes but is not limited to Parties' trade secrets, processes, devices, designs, concepts, improvements, know-how, algorithms, models, inventions (whether or not patentable or copyrighted), developments, decision technology, specifications, techniques, sketches, works of authorship, applications processes, strategies, designs, photographs, profile of its subsidiaries, branches or details of shareholding, financials, projections, track record, profile of product, any data or information regarding either Parties employees, prospective employees, business objective / criteria, employee lists, employee profiles, employee information, and other documentation relating to past, present or future business activities and services, which is disclosed by the Party within thirty (30) days of the disclosure and which was designated as 'Confidential' or with a similar legend at the time of disclosure.

This Agreement imposes no obligation upon Receiving Party with respect to Confidential Information which (a) was in Receiving Party's possession before receipt from the Disclosing Party, (b) is or becomes a matter of public knowledge through no fault of the Receiving Party, (c) is rightfully received by the Receiving Party from a rightfully possessing third party without a duty of confidentiality, (d) is disclosed by the Disclosing Party to a third party without a duty of confidentiality on the third party, (e) is required to be disclosed by court order or subpoena or other lawful governmental action, but only to the extent so ordered, and provided that the Party so ordered shall notify the Disclosing Party so that the Disclosing Party may attempt to obtain a protective order, (f) is disclosed by the Receiving Party with the Disclosing Party's prior written approval in accordance with said written approval, or (g) is independently developed by the Receiving Party without access or use of the Disclosing Party's Confidential Information.

Both Parties agrees and confirms that it shall not use, share, and reveal any Confidential Information provided by either Party for any purpose other than for rendering the Collaboration under this MOU and provide it only on a need to know basis to its Personnel (including subcontractors wherever applicable) for provision of Collaboration under this MOU with prior written permission from the other Party. The Parties will ensure that all Personnel assigned to provide the Collaboration under this MOU have signed appropriate confidential and non-disclosure agreement (with terms no less onerous than terms appearing in this MOU) to ensure either Party's Confidential Information disclosed under this MOU is protected from unauthorized use and disclosure. Both Parties hereby assumes full liability for the actions of its

Page 3 of 7

Regd office & Operations: Block No. A-4, Sixth Floor, No.16 Gateway Office Parks SEZ,GST Road, Perungalathur Chennai 600063 .  
Ph: 91-44-49477000; Extn: (7361, 7486, 7388)CIN NO.U35990TN2006PTC060495, Email vtscinfo@visteon.com , Website-  
www.visteon.comBangalore Operations: Pritech Park SEZ, Block #11, Ground Floor, Sy.No.51 to 64/4, Bellandur Village, Varthur  
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9. On publications (journal/conference/patent etc) resulting from the activities of this MOU, contributors from both the VTSC and the Institutions will be listed as authors/inventors, in the appropriate order based on their respective proportionate contributions.
10. All rights not expressly granted by a Party under this Agreement are reserved by such Party. Each Party acknowledges that the other Party may develop or improve on information or materials internally or receive information or materials from other third parties that may be similar to Confidential Information exchanged under this Agreement or information or materials that may result from the Collaboration. Accordingly, nothing in this Agreement shall prevent a Party from copying, reproducing, demonstrating, displaying, modifying, making derivative works of, selling, making or using products or information based on such similar information and materials, including in competition with or to competitors of the other Party.
11. Notwithstanding anything to the contrary herein, both Parties hereby confirm that, whether or not both Parties enter into a definitive production agreement to commercially produce the Collaboration results, each Party may exploit the Collaboration under this Agreement, with the prior written consent of the other Party and during the term of this Agreement, for any non-commercial purpose, including but not limited to demonstrating, manufacturing, modifying, using, etc. the Collaboration to or for any/other automobile manufacturers and suppliers worldwide.
12. Both Parties agree - each Party individually shall make efforts to complete relevant matters as the timeline mutually agreed.
13. As may be necessary, each Party will secure all government approvals and licenses necessary to support a Party's portion of the Collaboration, including export licenses required to transfer any materials and information, including Confidential Information, which the Parties may elect to exchange. The Parties shall adhere to the U.S. Export Administration Laws and Regulations and shall not export or re-export any technical data or products received from the other Party or the direct product of such technical data to any proscribed country listed in the U.S. Export Administration Regulations unless properly authorized by the U.S. Government.
14. The entering into and performance of this MOU by a Party does not and will not violate, conflict with, or result in a material default under any other contract, agreement, indenture, decree,

Page 5 of 7

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Ph: 91-44-49477000; Extn: (7361, 7486, 7388)CIN NO.U35990TN2006PTC060495, Email vtscinfo@visteon.com, Website-  
www.visteon.comBangalore Operations: Pritech Park SEZ, Block #11, Ground Floor, Sy.No.51 to 64/4, Bellandur Village, Varthur  
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**JSSATE**  
BENGALURU



**Visteon**

VISTEON TECHNICAL AND SERVICES CENTRE PRIVATE LIMITED

Witnesses:

*B.N. Prasad*

For VTSC

For Institution

*Dhanu*

Signed:

Date: 12.12.2022

Signed:

Date: 12.12.2022

### Annexure I

- VTSC may hire students from the institutions (subject to the eligibility criteria through the selection process).
- VTSC may provide training to the students hired while they are studying in the institutes.
- VTSC may offer cross training to the professors.
- VTSC may conduct technology focused events for students and faculty.
- The Single Point of Contact from JSS Technical Institutions:

**Dr M Pradeep, Training and Placement Officer, JSS STU, Mysuru**  
Ph: no 9986621114, Email Id: [placement@sjce.ac.in](mailto:placement@sjce.ac.in)

- The institutes coming under this MoU are:

1. JSS Science & Technology University, Mysuru – 570006
2. JSS Academy of Technical Education, Bengaluru – 560060
3. JSS Academy of Technical Education, Noida – 201301

Page 7 of 7

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Ph: 91-44-49477000; Extn: (7361, 7486, 7388) CIN NO.U35990TN2006PTC060495, Email [vtscinfo@visteon.com](mailto:vtscinfo@visteon.com) , Website-  
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43c67400090041420957ae / SSK / Initials, Postal Code: 570006  
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Mysuru - 570 006, Karnataka



*S. Srinivas*



person who has received material, nonpublic information about such other Party.

Confidential Information shall not include information that, as demonstrated to the Discloser's reasonable satisfaction: (i) was already in the public domain at the time it was disclosed or has entered the public domain through no fault of the Recipient; (ii) was already lawfully known to the Recipient, at the time of disclosure, as demonstrated by files in existence at the time of disclosure; (iii) was fully independently developed by the Recipient without any use of the Confidential Information of the Discloser and by employees of the Recipient who have not had access to the Confidential Information, as demonstrated by files created at the time of such independent development; or (iv) was properly obtained by the Recipient from a third party in lawful possession of such information and without breach of such third party's obligations of confidentiality.

**3. Nondisclosure of Confidential Information.** The parties each agree not to use any Confidential Information disclosed to it by the other party for its own use or for any purpose other than for the Opportunity. Neither party shall disclose or permit disclosure of any Confidential Information of the other party to third parties, except to those employees of the Recipient who have a need to know the information in order to evaluate or engage in discussions concerning the Opportunity. Each party shall ensure, prior to disclosure, that its employees, affiliates, agents, and consultants ("Representatives") who have access to the other party's Confidential Information have signed a non-disclosure agreement with terms at least as restrictive as the provisions of this Agreement or are otherwise legally obligated not to disclose such Confidential Information, (e.g. due to laws requiring to keeping confidential business secrets,) prior to any disclosure of Confidential Information to such Representatives and to bindingly ensure the secrecy of confidential information including Trade-/ Business Secrets, . Each party agrees that it shall take all reasonable measures to protect the secrecy of and avoid disclosure, use, and/or

storage of Confidential Information of the other party in order to prevent it from falling into the public domain or the possession of persons other than those persons authorized under this Agreement to have any such information. Such measures shall include, but not be limited to, the highest degree of care that the Recipient utilizes to protect its own Confidential Information of a similar nature, which shall be no less than reasonable care. Each party agrees to promptly notify the other in writing of any actual or suspected misuse, misappropriation or unauthorized disclosure of Confidential Information of the Discloser which may come to the Recipient's attention. Neither Party may record nor screen capture a meeting or teleconference without the prior consent of the other Party. Consent may be provided on the recording. All recorded information shall be treated as Confidential Information. Neither party shall reverse engineer, disassemble or decompile any prototypes, software or other tangible objects that embody the other party's Confidential Information and that are provided to a Recipient under this Agreement.

The Recipient of confidential information confirms to have state-of-the-art organizational measures and processes in place to secure the strictest confidentiality possible to insure information security in compliance with this Agreement. These measures and processes shall include its own and its subcontractors infrastructure.

If a Recipient is required by law to make any disclosure that is prohibited or otherwise constrained by this Agreement, the Recipient will provide the Discloser with prompt written notice of such requirement so that the Discloser, at its sole expense, may seek a protective order or other appropriate relief. If such protective order or other remedy is not obtained, or if the Discloser waives compliance with the provisions of this Agreement, the Recipient or its employee will furnish that portion (and only that portion) of Confidential Information that is legally compelled or is otherwise legally required to disclose; provided, however, that the Recipient provides such assistance

Page 2 of 5

Regd office & Operations: Block No. A-4, Sixth Floor, No.16 Gateway Office Parks SEZ, GST Road, Perungalathur Chennai 600063 .  
Ph: 91-44-49477000; Extn: (7361, 7486, 7388) CIN NO. U35200TN2006PLC000100 Email vtscinfo@visteon.com , Website-  
www.visteon.com Bangalore Operations: Pritech Park SEZ, 6th Floor, Sy.No.51 to 64/4, Bellandur Village, Varthur  
Hobli, Bangalore East Taluk, Bangalore District, Karnataka 560083 80 68325000

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JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka



S. Srinivas



of commencement. Each Party may terminate this MOU for any reason by giving a 30-day prior notice in writing to the other Party.

**12. Severability.** If one or more provisions of this Agreement are held to be unenforceable under Applicable Laws, the parties agree to renegotiate such provision in good faith. In the event that the parties cannot reach a mutually agreeable and enforceable replacement for such provision, then (a) such provision shall be excluded from this Agreement, (b) the balance of the Agreement shall be interpreted as if such provision were so excluded and (c) the balance of the Agreement shall be enforceable in accordance with its terms.

**14. Governing Law.** This Agreement will be governed and construed in accordance with the laws of India, without reference to its choice of law rules and not including the provisions of the 1980 U.N. Convention on Contracts for the International Sale of Goods. The parties consent to the exclusive jurisdiction in a competent court in Bengaluru, India.

**15. Remedies.** Visteon and Company each agree that its obligations set forth in this Agreement are necessary and reasonable in order to protect the Discloser and its business. Visteon and Company each expressly agree that due to the unique nature of the Discloser's Confidential Information, monetary damages would be inadequate to compensate the Discloser for any breach by the Recipient of its covenants and agreements set forth in this Agreement. Accordingly, Visteon and Company each agree and acknowledge that any such violation or threatened violation shall cause irreparable injury to the Discloser and that, in addition to any other remedies that may be available, in law, in equity or otherwise, the Discloser shall be entitled to obtain injunctive relief against the threatened breach of this Agreement or the continuation of any such breach by the Recipient, without the necessity of proving actual damages.

**16. Amendment and Waiver.** No provision of this Agreement may be amended or otherwise modified except by a writing signed by the parties to this

Agreement. Failure to enforce any provision of this Agreement by a party shall not constitute a waiver of any term hereof by such party.

**17. Notices.** All notices or reports permitted or required under this Agreement shall be in writing and shall be by personal delivery, facsimile transmission, electronic transmission or by certified or registered mail, return receipt requested, and shall be deemed given upon personal delivery, five (5) days after deposit in the mail, or upon acknowledgment of receipt of electronic or facsimile transmission. Notices shall be sent to the addresses set forth at the beginning of this Agreement or such other address as either party may specify in writing.

**18. Other.** This Agreement constitutes the entire agreement between the parties with respect to Confidential Information regarding the Opportunity and supersedes all prior written and oral agreements between the parties regarding the subject matter of this Agreement, and neither party shall have any obligation, express or implied by law, with respect to trade secret or proprietary information of the other party except as set forth in this Agreement. Recipient shall adhere to the all applicable export laws, export control and regulations, esp. related to the confidential information and shall not export or re-export any technical data or products, or other confidential information received from the Discloser or the direct product of such technical data to any proscribed country unless properly authorized by applicable government entity. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original and all of which together shall constitute one instrument.



Page 4 of 5

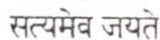
Regd office & Operations: Block No. A-4, Sixth Floor, No.16 Gateway Office Parks, SEZ, GST Road, Perungalathur Chennai 600063 .  
Ph: 91-44-49477000; Extn: (7361, 7486, 7388) CIN NO.U35999TN1000005. Email vtscinfo@visteon.com , Website-  
www.visteon.com Bangalore Operations: Pritech Park SEZ, 11 Floor, Sy.No.51 to 64/4, Bellandur Village, Varthur  
Hobli, Bangalore East Taluk, Bangalore District, Karnataka 560075. Phone: 080 68325000

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Dear Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka





**INDIA NON JUDICIAL**

**Government of Karnataka**

### e-Stamp

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Certificate No.           | : IN-KA97391095189784V                            |
| Certificate Issued Date   | : 28-Feb-2023 03:28 PM                            |
| Account Reference         | : NONACC (FI)/ kacrsf108/ SARASWATHIPURAM1/ KA-MY |
| Unique Doc. Reference     | : SUBIN-KAKACRSFL0883324230814816V                |
| Purchased by              | : J S S SCIENCE AND TECHNOLOGY UNIVERSITY         |
| Description of Document   | : Article 12 Bond                                 |
| Description               | : NON DISCLOSER AGREEMENT                         |
| Consideration Price (Rs.) | : 0<br>(Zero)                                     |
| First Party               | : J S S SCIENCE AND TECHNOLOGY UNIVERSITY         |
| Second Party              | : VALLES MARINERIS INTERNATIONAL PVT LTD          |
| Stamp Duty Paid By        | : J S S SCIENCE AND TECHNOLOGY UNIVERSITY         |
| Stamp Duty Amount(Rs.)    | : 500<br>(Five Hundred only)                      |



Please write or type below this line

This AGREEMENT was made on this 01<sup>st</sup> March of 2023 at, Mysuru

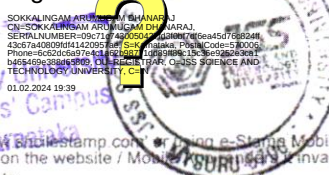


BETWEEN

**JSS Science and Technology University** located at JSS Technical Institutions Campus, Mysuru - 570006 of one part (herein after called "The Buyer, which expression shall, unless repugnant to the context and meaning thereof, mean and include its successor in interest and assigns) and represented by its Represented by its Registrar, **JSS Science and Technology University**.

AND

Signature Not Verified



### Statutory Alert

1. The authenticity of this Stamp certificate should be verified at [www.stockstamp.com](http://www.stockstamp.com) or using e-Stamp Mobile App of Stock Holding Corporation of India Ltd.  
Any discrepancy in the details on this certificate and as available on the website / Mobile App of the Company is invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.



4. Payment shall be made by the *bank cheque* into the account nominated in writing by the Supplier in accordance with the payment terms stated in the Vendor Application Form.

#### Delivery of Goods and/or Services:

The Supplier agrees to supply and deliver the Goods to the Buyer and/or to perform the Services for the Buyer, as applicable, on the terms set out in the Purchase Order including quantity, timelines, deliverables, etc. or otherwise as per the buyer's requirements. Under no circumstances any change in the Goods or services, as ordered, will be accepted, unless specifically agreed in writing. The Supplier shall, at its own expense, pack, load, and deliver the Goods to the Delivery Point and in accordance with the invoicing, delivery terms, Purchase Order or otherwise agreed to in writing by the Buyer.

Time is of the essence with respect to delivery of the Goods and performance of Services. The Goods shall be delivered and/or the services performed by the applicable delivery date. The Supplier must immediately notify the Buyer if Supplier is likely to be unable to meet the Delivery Date. At any time prior to the Delivery Date, Buyer may upon notice to the Supplier, cancel or change the Purchase Order, or any portion thereof, for any reason, including without limitation, for the convenience of the Buyer or due to failure of the supplier to comply with the terms of Purchase Order, without any changes or Consequences of any kind to the Buyer.

#### Inspection; Acceptance and Rejection:

All shipments of Goods and/or performance of Services shall be subject to the agreement.

The buyer shall have the right to reject any Goods that are delivered more than the quantity ordered or are damaged or defective. In addition, the Buyer shall have the right to reject any Goods and / or Services that are not in conformance with the specifications or any term of the Purchase Order.

#### Site Requirement:

Laboratory space of at least 600 sqft to store and carry out the satellite design, integration activities need to be provided by the buyer. Buyer will ensure that laboratory space is air conditioned and equipped with adequate number of electric points, UPS, LAN ports.

#### JSS Nanosatellite Project:

Supplier shall provide continuous technical support for the implementation of JSS Nanosatellite project till the time of completion. Supplier shall provide necessary technical support in testing and validating the final satellite product. Supplier will also provide the necessary support to buyer for enrolling the satellite into Indian Space Research Organization (ISRO)'s launch program and for obtaining the necessary licenses from various national and international agencies.

#### Taxes:

Unless otherwise stated in a Purchase Order, all prices or other payments stated in the Purchase Order and additional GST as applicable, including Goods & Services Tax (GST). Supplier shall separately itemize (I) applicable taxes each on each invoice and indicate on each invoice its applicable tax registration number(s). Buyer will pay all applicable taxes to Supplier when the applicable invoice is due. Supplier will remit all applicable taxes to the applicable government authority as required by applicable laws and file necessary returns Within the stipulated time.

Signature Not Verified

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JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka





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Mysuru - 570 006, Karnataka



UNIVERSITY OF THE  
WITWATERSRAND  
JOHANNESBURG

## COLLABORATION AGREEMENT

Between

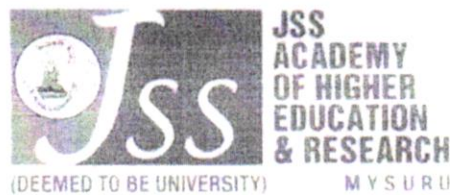
**THE UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG**

And



**SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING  
JSS SCIENCE AND TECHNOLOGY UNIVERSITY**

And



**JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, MYSURU**

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Collaboration Agreement FINAL  
28/12/2022

Page 1 of 22



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SERIALNUMBER=09C71C74300501243300F786ea45d76c824f  
43c674408090541420957ae / SRI Jayachamarajendra College of Engineering, Mysuru, Karnataka, PostalCode=570006  
Phone=08200087843, Email=jss@jss.ac.in, O=JSS Science and Technology University, OU=JSS Science and Technology University, C=IN

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JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

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## COLLABORATION AGREEMENT

## 1. PARTIES

- 1.1. **The University of the Witwatersrand, Johannesburg**, acting through its Faculty of Science (hereinafter “the University”);
- 1.2. **Sri Jayachamarajendra College of Engineering, JSS Science and Technology University** (hereinafter “SJCE”); and
- 1.3. **JSS Academy of Higher Education & Research, Mysuru** (hereinafter “JSS AHER”).

## 2. INTRODUCTION

- 2.1. The University is a research and teaching institute and possesses particular skills and expertise in the field of machine learning and mining educational data ("the Field").
- 2.2. SJCE and JSS AHER are well recognized institutions leading in cutting edge research in higher education, health sciences and machine learning research and techniques.
- 2.3. The Parties, having a common commitment to research in the Field, wish to combine their skills in order to promote research excellence in the Field.
- 2.4. For each Project there will be a separate proposal/workplan which will form an integral part of this Agreement and will be duly signed by the Parties.
- 2.5. The Parties agree as set out below.

### 3. DEFINITIONS

Unless the context clearly indicates otherwise, the following terms shall bear the following meanings:

- 3.1. "Agreement" this agreement together with all annexures and schedules hereto.



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Collaboration Agreement FINAL  
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Page 3 of 22

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drawings, prototypes, methodologies, trade secrets, undisclosed inventions, financial and marketing information, as well as registered and unregistered intellectual property in the form of patents, utility models, trademarks, designs and plant breeders' rights (whether granted, registered or applied for), and copyright in any works including literary works or computer software programs in source and object code format ).

3.8. "JSS AHER"

JSS Academy of Higher Education & Research, Mysuru-570015, a deemed University established under section 3 of the UGC Act.

3.9. "JSS AHER Representative"

a person nominated in writing by the JSS AHER from time to time to act on its behalf. The representative for the timing being is Prof. Sunil Kumar D, MBBS, MD, PhD, Professor, Department of Community Medicine and IQAC Coordinator, JSS Medical College, Mysuru.

3.10. "Parties"

the University, SJCE and JSS AHER (and "Party" means one of them, as the context dictates)

3.11. "Project"

"Data Mining for Student Performance Prediction in Education" and as more fully described in the attached proposal marked as Annexure A

3.12. "School"

the Science Teaching and Learning Centre

3.13. "Signature Date"

the date on which this Agreement is signed by the last Party to do so.

3.14. "SJCE"

Sri Jayachamarajendra College of Engineering, JSS Science and Technology University

3.15. "Student"

a person registered full time or part time for a degree, diploma, licentiate or certificate of the University.



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Collaboration Agreement FINAL  
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Page 5 of 22

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Phone=0820008784;e=chitaka@jssu.ac.in;ou=JSS Science and  
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## 5. COMMENCEMENT AND DURATION OF AGREEMENT

## 6. AIMS, OBJECTIVES AND GENERAL OBLIGATIONS

6.2. Each Party will make best endeavours to perform and fulfil promptly, actively and on time, all of its obligations under this Agreement.

## 7. OBLIGATIONS OF THE UNIVERSITY

7.1.1. ensure that its Representatives attend the research meetings;

7.1.2. conduct research into the Project as outlined in Annexure A attached hereto:

7.1.3. supervise the research conducted by its students; and

7.1.4. ensure that the students conducting research under the auspices of this Agreement comply with the University's Rules and Regulations as well as the requirements, obligations and timelines imposed in respect of the Projects.

## 8. OBLIGATIONS OF ISSAHER AND SJCE

8.1. The ISS AHER and SICE will:



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## 10. INTELLECTUAL PROPERTY RIGHTS

- 10.1. The Parties hereby record that the ownership of rights in and to all Background Intellectual Property as well as Intellectual Property developed by a party to this Agreement after its commencement which is not Foreground Intellectual Property will be and remains unaffected hereby.
- 10.2. The Parties will grant each other licences to the Background Intellectual Property that may be required for the Projects, which licences shall be strictly limited to the performance of the Projects;
- 10.3. Any Intellectual Property rights of a Party, which are created pursuant to, and are subject to, the provisions of this Agreement, may be governed by the South African Intellectual Property Rights from Publicly Financed Research and Development Act, 2008 (Act no. 51 of 2008) and the Regulations thereto (jointly referred to as "the IPR-PFRD Act"); and if so;
  - 10.3.1. the South African government has certain rights to the intellectual property referred to in 10.2 in terms of sections 11(1)(e), 11(2) and 14 of the IPR-PFRD Act.
- 10.4. Foreground Intellectual Property in all work in terms of this Agreement will be retained by the Party generating the Intellectual Property, provided that where the Parties have jointly created Intellectual Property it will be shared proportionate to their contributions. No agreement in this regard shall be of any force and effect, unless reduced to writing and signed by both parties.
- 10.5. Any methodology, technique, process and procedure ("Methods") developed by the University pursuant to this Agreement will be owned by the University and vice versa.
- 10.6. Any publications produced in connection with a Project shall acknowledge the roles and contributions of the Parties, any funders and sponsors.

## 11. PUBLICATION

- 11.1. The Parties will not publish any results without having obtained the prior approval of the non-publishing party. Subject to the provisions of clauses 10 and 14, the Publishing Party will subject to the approval of the non-publishing party



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11.2. Subject to the approval of the Steering Committee, the Party authorised to publish ("Publishing Party") will submit to the non-publishing party a copy of the proposed publication at least 30 (thirty) calendar days in advance of the submission of the publication to a third party. If the non-publishing Party determines that the proposed publication discloses confidential or proprietary information that requires protection, that Party will notify the Publishing Party of this determination within 30 (thirty) calendar days of receipt of the proposed publication. The non-publishing Party can require a delay of the publication, which delay will not normally exceed 3 (three) months, or editing of the proposed publication, such editing not being deemed unreasonable by the Parties hereto.

11.3. If the non-publishing Party, to whom a proposed publication has been submitted according to clause 11.2, fails to notify the Publishing Party within 30 (thirty) days of receipt of the publication, then the Publishing Party is free to submit or present the publication.

11.4. Subject to clause 14, the Parties will not, during or for a 5 (five) year period after the conclusion of the Project and during this Agreement, disclose to other parties any of the above Confidential Information, without the prior written consent given as prescribed hereunder.

12.1. Nothing in this Agreement will prevent a registered student of the University from submitting for a degree of the University a thesis, dissertation or Project report based on the results from the Project. JSS AHER and SJCE may see the draft material during the writing up period and may, within 30 (thirty) days of receipt, request the exclusion of confidential or sensitive information, or to correct any errors of fact. JSS AHER and SJCE may remove any JSS AHER and SJCE, brand or product names from the thesis, dissertation or Project report.



**JSS**  
SCIENCE AND  
TECHNOLOGY  
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JSS Science & Technology University  
JSS Technical Institutions' Campus  
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- ## 15. DISPUTES

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Collaboration Agreement FINAL  
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Mysuru - 570 006, Karnataka



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19.2. During any period of non-performance in terms of clause 19.1, the relevant terms and conditions of this Agreement will be suspended.

19.3. Should the duration of non-performance in terms of clause 19.1, go beyond a period of 6 (six) months, either party may cancel this agreement, without any right of recourse as against each other, save in respect of work already executed.

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20.1.2. The notice will be deemed to have been duly given:

- 20.1.2.1. seven (7) days after posting, if posted by registered post to the Party's address in terms of this sub-clause;
- 20.1.2.2. on delivery, if delivered to the Party's physical address set out in 20.1.1;
- 20.1.2.3. on despatch, if sent to the Party's then fax number or electronic mail address set out in 20.1.1 and confirmed by registered letter posted no later than the next business day;

unless the addressor is aware, at the time the notice would otherwise be deemed to have been given, that the notice is unlikely to have been received by the addressee through no act or omission of the addressee.

20.1.3. A Party may change its address for this purpose to another address in the Republic of South Africa, by notice to the other Party.

20.1.4. Notwithstanding anything to the contrary herein contained a written notice or communication actually received by a Party will be an adequate written notice or communication to it notwithstanding that it was not sent to or delivered at its chosen address in terms of 20.1.1.

20.1.5. All notices and correspondence in connection with this Agreement will be in the English language.

## 20.2. Address for Service of Legal Documents

20.2.1. The Parties choose the following physical addresses at which documents in legal proceedings in connection with this Agreement may be served (i.e. their *domicilia citandi et executandi*):

20.2.1.1. The University:

Office of the Director: Legal Services  
5<sup>th</sup> Floor, Senate House  
1 Jan Smuts Avenue  
Braamfontein  
Johannesburg

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Collaboration Agreement FINAL  
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Dean - Research  
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TECHNOLOGY UNIVERSITY, CN=JSS  
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right arising from this Agreement or its breach or termination will be of any force or effect unless reduced to writing and signed by both Parties or their duly authorised representatives.

#### 20.6. Indulgences

If either Party at any time breaches any of its obligations under this Agreement, the other Party ("the Aggrieved Party"):

20.6.1. may at any time after that breach exercise any right that became exercisable directly or indirectly as a result of the breach, unless the Aggrieved Party has expressly elected in writing or by clear and unambiguous conduct, amounting to more than mere delay, not to exercise the right. In particular, acceptance of late performance will be provisional only, and the Aggrieved Party may still exercise that right during that period;

20.6.2. will not be estopped (i.e. precluded) from exercising its rights arising out of that breach, despite the fact that it may have elected or agreed on one or more previous occasions not to exercise the rights arising out of any similar breach or breaches.

#### 20.7. Successors in title

Without prejudice to any other provision of this Agreement, any successor-in-title, including any executor, heir, liquidator, judicial manager, curator or trustee, of a Party shall be bound by this Agreement.

#### 20.8. Severability

If any provision of this Agreement is invalid, unenforceable or illegal, the remaining provisions of this Agreement shall be deemed to be severable therefrom and shall continue in full force and effect unless such invalidity, unenforceability or illegality goes to the root of this Agreement.

#### 20.9. Counterparts

This Agreement may be executed in any number of counterparts and by the Parties hereto on separate counterparts, each of which when executed and

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Collaboration Agreement FINAL  
28/12/2022



*[Signature]*  
Dean - Research  
JSS Science & Technology University  
JSS Technical Institutions' Campus  
Mysuru - 570 006, Karnataka

Signature Not Verified

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## **Annexure A: Project Proposals**

### **1. Data Mining for Student Performance Prediction in Education**

This project proposes the application of data mining techniques to predict the final grades of students based on their historical data. In the experimental studies, three well-known data mining techniques (decision tree, random forest, and naive Bayes) will be employed on educational datasets and will examine the effectiveness and accuracy of data mining learning techniques when predicting the performances of students.

### **2. AN ANDROID-BASED APPLICATION TO PREDICT STUDENT ATTRITION**

This study aims to build a system capable of predicting students at risk of dropping out. If students with unpredictable graduation risks can be identified in the early stages, then the indication of dropout rates may be reduced by providing special appeals to students at risk. Prediction analysis applies the K-Nearest Neighbors method to dig up the trace data stack and look for the proximity of the data with the new data. This method of classification is based on several attributes, namely pass rates, the number of GPA, credits that have been taken each semester, number of credits passed, and the number of credits failed.

#### **Deliverables:**

Two (x2) research papers are expected to be published in high impact, international, peer reviewed journals.

**Budget:** Not applicable

#### **Timelines:**

Year 1 (February 2023- November 2023): Conceptualize and frame research questions; acquire datasets; train the predictive models.

Year 2 (February 2024- November 2024): Data analysis and consolidation of results, testing the accuracy of predictive models.

Year 3 (February 2025- November 2025): Write and publish x 2 journal articles.