

**RESPONSE SHEET**

Details		Weightage
Criterion	7 - Institutional Values and Best Practices	100
Key Indicator	7.3 Institutional Distinctiveness	20
Metric	7.3.1 <i>Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words (QLM)</i>	20
Website Link: https://naac.jssstuniv.in/#/naac		

Employment-Embedded Education: JSS Science and Technology University's Distinctiveness

In the ever-evolving landscape of higher education, the true distinctiveness of an educational institution is often measured by its ability to seamlessly bridge the gap between academic knowledge and real-world industry demands. **Employment Embedded Education (EEE)** emerges as a holistic approach, where the curriculum is not merely confined to textbooks and lectures but extends into the dynamic realm of industry expectations. JSS Science and Technology University (JSS STU) stands as a beacon among educational institutions, showcasing its commitment to **Employment-Embedded Education**, a unique methodology that harmonizes academic learning with invaluable industry exposure.

JSS STU has achieved distinctiveness through a multifaceted approach, combining strategic collaborations, bespoke training programs, and robust industry engagement initiatives. These elements collectively contribute to a transformative educational experience, positioning the university as a trailblazer in preparing students for the challenges of the professional world.

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Strategic Priorities:

1. Collaboration with Industry Leaders:

- The cornerstone of JSS STU's distinctiveness lies in its strategic collaborations with over 22 globally renowned companies. Partnerships with industry leaders such as Mercedes-Benz, TCS, Bosch, HP, L&T, Tejus Networks, Applied Materials, Deloitte, Dassault, UD Trucks, Schneider Electric, Nokia, and LTI Mindtree not only serve as testaments to the university's industry relevance but also offer students unparalleled opportunities for hands-on learning and exposure to real-world scenarios.
- With such collaborations students have not only garnered firsthand, real-time exposure but have immersed themselves in the dynamic realm of cutting-edge technologies actively embraced and implemented within the industry, showcasing an impressive and comprehensive understanding of cutting-edge technologies, industry best practices, and a glimpse into the corporate work environment.

2. Training for Placement and Internship:

- To bridge the gap between academia and industry, JSS STU offers specialized training programs and electives in collaboration with its esteemed industry partners. These programs are meticulously designed to align with industry requirements, ensuring that students are well-prepared for the demands of the job market.
- The university's commitment to providing industry-relevant education is reflected in the diverse set of industry-designed electives offered in collaboration with companies such as Bosch, HP, LTI Mindtree, Schneider Electric, and Nokia.

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- Internship opportunities are integrated into the curriculum, ensuring students gain practical experience and develop a strong professional network. 70 % students pursue such internships.
- **Exclusive BE Program:** A testament to the university's dedication to industry integration is the exclusive Bachelor of Engineering (BE) program in Computer Science and Business Systems, which is designed in collaboration with Tata Consultancy Services (TCS). This program goes beyond traditional academic curricula, incorporating TCS's industry insights to produce graduates equipped with the precise skills and knowledge demanded by the business and technology sectors.

3. Industry Engagement - Invited Talks:

- Regular sessions of invited talks by industry experts are organized, providing students with insights into the latest trends, challenges, and opportunities in the industry.
- The regular organization of invited talks by industry experts at JSS STU is a testament to our commitment to nurturing well-rounded, industry-ready professionals. By providing students with opportunities to engage directly with industry luminaries, we empower them to connect their academic knowledge to real-world applications.
- This initiative reinforces our ethos of Employment Embedded Education, preparing students not just for academic excellence but for success in the dynamic and ever-evolving world of industry.

4. Industry-Based Training:

- The curriculum includes industry-based training modules, allowing students to work on projects that mirror real-world scenarios. 17% of the courses offered are directly oriented towards employability.





- Practical exposure to industry practices through such efforts ensures that students are not just theoretical experts but possess hands-on skills valued by employers.
- JSS STU is supported under PACE program. The Partners for the Advancement of Collaborative Engineering Education (PACE) collaborates with global entities such as GM, Autodesk, HP, Oracle, and Siemens PLM Software. PACE strategically aligns with chosen academic institutions worldwide to foster the development of the next generation of automotive product lifecycle management (PLM) teams. Within the PACE framework, PLM represents an integrated, parametric-driven methodology encompassing the entire life cycle of a product—from its initial design stages through manufacturing, marketing, distribution, maintenance, and ultimately, recycling and disposal. This presents an exceptional opportunity for students at the University.

5. Implementation through MoUs:

- Memorandums of Understanding (MoUs) are established with partner companies, outlining the terms of collaboration and the specific initiatives to be implemented.
- These MoUs serve as a framework for sustained collaboration, fostering a long-term relationship between the educational institution and industry partners.

Transformative Outcomes:

JSS STU's Employment-Embedded Education model ensures that students not only acquire theoretical knowledge but also gain practical exposure to industry practices and challenges. The university's approach enhances employability by fostering a deep understanding of industry expectations and standards. Students who undergo these

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specialized programs are better positioned to secure placements and contribute meaningfully to their chosen fields upon graduation. This has helped in –

1. Curriculum Design and Development:

EEE influenced the design of academic curricula by incorporating industry-relevant content, ensuring that students are equipped with the skills and knowledge demanded by the job market.

2. Placements:

- The university boasts an impressive placement record with a high percentage of students securing job offers before graduation.
- Collaborations with industry giants contribute to a network that facilitates seamless placement opportunities for students globally.

3. Salary Packages:

- Graduates from the institution receive competitive salary packages, reflecting the industry's recognition of their skills and capabilities.
- The alignment of the curriculum with industry needs ensures that students are job-ready, contributing to higher starting salaries.

4. Feedback of Students:

- Feedback from students reflects a high level of satisfaction with the EEE model, emphasizing the relevance of the curriculum and the effectiveness of industry collaborations.
- Positive testimonials from alumni further strengthen the institution's reputation and attract prospective students.



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5. Impact on faculty development and Institutional research and consultancy:

- The concept of Employment Embedded Education at JSS STU has catalysed a paradigm shift in the role of faculty members. They are not only educators but active participants in the dynamic interplay between academia and industry.
- This transformative approach ensures that faculty members remain relevant, informed, and actively contribute to consultancy and research opportunities that directly impact the professional world.
- The ripple effects of EEE extend beyond the classroom, creating a collaborative and innovative ecosystem that positions JSS STU at the forefront of industry-responsive higher education.

The distinctiveness of JSS Science and Technology University lies in its ability to prepare students for the ever-evolving demands of the professional world. Through the implementation of **Employment Embedded Education (EEE)** and strategic initiatives such as collaborations, training programs, and industry engagement, JSS STU has successfully positioned itself as a hub for holistic education, contributing to the success and satisfaction of its students in the competitive job market. The model serves as an exemplar for other institutions seeking to enhance their distinctiveness and produce graduates who are not only academically proficient but also industry-ready. Everything we do at JSS STU is grounded in a shared commitment to our students. The university has adopted a consistent approach to quality across all aspects of the student lifecycle and outcomes.

Link1

Link2



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