



- 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 HUMANITIES**

**SCHEME & SYLLABUS**

**First Semester**

**(From the Academic Year 2022-23)**

| Course Title     | INNOVATION & DESIGN THINKING |         |               | Course Type                        |           | AEC                               |          |            |          |
|------------------|------------------------------|---------|---------------|------------------------------------|-----------|-----------------------------------|----------|------------|----------|
| Course Code      | 22HU120 /22HU220             | Credits | 1             | Class                              |           | I Semester                        |          |            |          |
| Course Structure | TLP                          | Credits | Contact Hours | Total Number of Classes / Semester |           | Assessment in Weightage and Marks |          |            |          |
|                  | Theory                       |         |               | Theory                             | Practical | CIE                               |          | SEE        |          |
|                  | Practical                    |         |               |                                    |           | Weightage                         | 40%      | Weightage  | 60%      |
|                  | Tutorial                     | 1       | 2             |                                    |           | Max. Marks                        | 40 Marks | Max. Marks | 60 Marks |
|                  | Total                        |         |               |                                    |           | Min. Marks                        | 20 Marks | Min. Marks | 25 Marks |

**Course Overview:** This course provides an introduction to the need of Innovations and design thinking with necessary basic concepts, types, tools and techniques involved in practice to cater to the engineering needs.

**Course Objective:**

- To explain the concept of innovations and its types, needs, implementation and protection.
- To apprise the importance of design thinking for strategic innovations.

**Course Outcome:**

| CO# | Course Outcome                                                                                                                                    | Highest Level of Cognitive Domain |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| CO1 | Comprehensively classify, compare, discuss and illustrate the types of innovations with examples.                                                 | L2                                |
| CO2 | Explain the need, drivers and models of innovations with examples and illustrate applications related to past, present and quantify future needs. | L2                                |
| CO3 | Describe methods of protection to innovations and develop conceptual design of products/services relevant to respective branch of engineering.    | L3                                |
| CO4 | Illustrate the need, types, tools and implementation of design thinking and elucidate the collaborated design thinking.                           | L2                                |
| CO5 | Explain the impact of design thinking for strategic innovations.                                                                                  | L2                                |

**Course Articulation:**

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| POs →<br>COs ↓ | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO1            | -   | -   | 3   | -   | -   | -   | -   | -   | -   | -    | -    | 1    |
| CO2            | -   | -   | 3   | -   | -   | -   | -   | -   | -   | -    | -    | 1    |
| CO3            | -   | -   | 3   | -   | -   | -   | -   | -   | -   | -    | -    | 1    |
| CO4            | -   | -   | 3   | -   | -   | -   | -   | -   | -   | -    | -    | 1    |
| CO5            | -   | -   | 3   | -   | -   | -   | -   | -   | -   | -    | -    | 1    |

### Course Content / Syllabus:

| UNIT No. | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hours            |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| UNIT 1   | <b>INTRODUCTION TO INNOVATION:</b><br>Innovation – Definition, Need For Innovation, Comparison Of Innovations And Inventions, Ideation, Examples, Innovation of Products & Services - Classification Of Innovation – Based On Category - Product Innovation, Process Innovation, Service Innovation, Marketing Innovation, Organizational Innovation, Based On Overall Global Needs – Technological Innovation, Social Innovation, Based On the Degree Of Novelty - Incremental Innovations, Radical Innovations, Systemic /Systematic Innovations, Breakthrough Innovation. | Lecture<br><br>7 |
| UNIT 2   | <b>INNOVATION NEEDS AND MODELLING:</b><br>Need for innovation - Importance of innovation- business Needs, Societal Needs, Technological, Scientific and other needs, Drivers for Innovation- Types of drivers and their role, Importance of drivers in innovation promotion, Innovations of the past, present and the future, Comparison using examples of products and services, Need and Want in innovation.<br>Need for modeling, Importance of models, TEDOC – Target, Explore, Develop, Optimise and Commercialise - model of Innovation.                               | Lecture<br><br>7 |
| UNIT 3   | <b>PROTECTION OF INNOVATION:</b><br>Safeguarding innovation, methods of protection, copy right, trademarks, Intellectual Property Rights (IPR).<br><b>Examples:</b> Products/Services - Case Study and Discussions – Branch specific selected examples.                                                                                                                                                                                                                                                                                                                      | Lecture<br><br>4 |
| UNIT 4   | <b>DESIGN THINKING &amp; ITS TOOLS:</b><br>Introduction to design thinking, Theory and practice in Design thinking, Implementation, MVP & Prototyping, Scenario based Prototyping.<br>Tools for Design thinking, Collaboration in distributed Design.                                                                                                                                                                                                                                                                                                                        | Lecture<br><br>4 |
| UNIT 5   | <b>DESIGN THINKING FOR STRATEGIC INNOVATIONS:</b><br>Growth – Story telling representation – Strategic Foresight - Change – Sense Making - Maintenance Relevance – Value redefinition - Extreme Competition – experience design - Standardization – Humanization - Creative Culture – Rapid prototyping, Strategy and Organization – Business Model design.                                                                                                                                                                                                                  | Lecture<br><br>4 |

**Text Books:**

1. "The Houdini Solution. Put Creativity and Innovation to Work by Thinking INSIDE THE BOX", By Ernie Schenck, McGraw Hill, New York 2007.
2. Idris Mootee, "Design Thinking for Strategic Innovation: What They Can't Teach You at Business or Design School", John Wiley & Sons 2013.
3. The Little Black Book of Innovation: How It Works, How to Do It? - Scott D. Anthony, Harvard Business School Press – 2011.
4. John.R.Karsnitz, Stephen O'Brien and John P. Hutchinson, "Engineering Design", Cengage learning (International edition), Second Edition, 2013.

#### Reference Books:

1. Reverse Innovation: Create Far From Home, Win Everywhere - Vijay Govindarajan, Chris Trimble and Indra K. Nooyi - Harvard Business Press Books – 2012.
2. Innovation. - Growth Engine for Nation -. Nice Buzzword but Often Misunderstood. Compiled By. Dr. Rajiv V. Dharaskar. Ph.D.
3. Hasso Plattner, Christoph Meinel and Larry Leifer (eds), "Design Thinking: Understand – Improve – Apply", Springer, 2011.

#### Web/Digital resources:

1. [www.mindtools.com](http://www.mindtools.com)
2. [www.quicksprout.com](http://www.quicksprout.com)
3. [www.mindtools.com](http://www.mindtools.com)

#### Evaluation Scheme:

##### Continuous Internal Evaluation – CIE

| Event   | Event Type       | Marks Allotted | Duration |
|---------|------------------|----------------|----------|
| CIE – 1 | Written Test – 1 | 30             | 1 Hour   |
| CIE – 2 | Event            | 20             | 1 Hour   |
| CIE – 3 | Written Test – 2 | 30             | 1 Hour   |

#### Note:

1. The written test 1 & 2 (CIE – 1 & 3) both will be conducted for 30 marks each in 1 hour duration and the marks scored will be reduced proportionately to 15 marks each.
2. The Event (CIE – 2) will be conducted for 20 marks and the marks scored will be reduced proportionately to 10 marks.
3. The Event (CIE – 2) will be skill based assessment such as Seminars / Technical talks / Case study / hands-on activity / Mini projects / Sci-tech activity / Data analysis.
4. A student must score on an average of 50% i.e., 20 marks out of 40 from all the events (CIE - 1, 2, 3) to gain the eligibility to appear for SEE.

##### Semester End Examination – SEE

| Event | Event Type          | Marks Allotted | Duration |
|-------|---------------------|----------------|----------|
| SEE   | Written Examination | 60             | 2 Hours  |

**Note:** The SEE will be conducted for 60 marks. A student must score a minimum of 25 marks out of 60 in the SEE to pass.

|                                                                      |                                            |
|----------------------------------------------------------------------|--------------------------------------------|
| <b>Course Title: Constitution of India &amp; Professional Ethics</b> | <b>Course Code: 20HU510</b>                |
| <b>Credits: 0</b>                                                    | <b>Total Contact Hours (L:T:P): 26:0:0</b> |
| <b>Type of Course: Theory</b>                                        | <b>Category: HSMC</b>                      |
| <b>CIE Marks: 50</b>                                                 | <b>SEE Marks: -</b>                        |

#### Course Objective.

1. To provide basic information about Indian Constitution.
2. To identify individual role and ethical responsibility towards society.

**Course Outcomes:** Have general knowledge and legal literacy and thereby to take up competitive examinations.

| <b>Unit No.</b> | <b>Course Content</b>                                                                                                                                                                           | <b>No. of Hours</b> |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>1</b>        | Introduction to the constitution of India, The Making of the Constitution and Salient features of the Constitution. Preamble to the Indian Constitutional Fundamental Rights & its limitations. | <b>05</b>           |
| <b>2</b>        | Directive principles of State Policy & Relevance of Directive principles of State Policy Fundamental Duties. Union Executives – President, Prime Minister, Parliament, Supreme Court of India.  | <b>05</b>           |
| <b>3</b>        | State Executives – Governor, Chief Minister, State Legislature, High Court of State. Electoral Process of India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th, and 91st Amendments        | <b>05</b>           |
| <b>4</b>        | Social Provision for SC & ST Special Provision for Women, Children and Backward Classes, Emergency Provisions. Powers and Functions of Municipalities, Panchayats and Co-operative Societies.   | <b>05</b>           |
| <b>5</b>        | Scope and Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. Risk, Safety and liability of Engineers, Honesty, Integrity and Reliability in Engineers       | <b>06</b>           |

  
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JSS MAHAVIDHYAPEETHA

JSS SCIENCE AND TECHNOLOGY UNIVERSITY

SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING



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**DEPARTMENT OF HUMANITIES**

**SCHEME & SYLLABUS**

**First / Second Semester**

**(From the Academic Year 2022-23)**

| Course Title     | CONSTITUTION OF INDIA & PROFESSIONAL ETHICS |         |               | Course Type                        | Humanities, Social Sciences and Management Course |          |            |   |
|------------------|---------------------------------------------|---------|---------------|------------------------------------|---------------------------------------------------|----------|------------|---|
| Course Code      | 22HU110 / 22HU210                           | Credits | 0             | Class                              | I / II Semester                                   |          |            |   |
| Course Structure | TLP                                         | Credits | Contact Hours | Total Number of Classes / Semester | Assessment in Weightage and Marks                 |          |            |   |
|                  | Theory                                      | -       | 26            | Theory                             | CIE                                               |          | SEE        |   |
|                  | Practical                                   | -       | -             | 26                                 | Weightage                                         | 100%     | Weightage  | - |
|                  | Tutorial                                    | -       | -             |                                    | Max. Marks                                        | 50 Marks | Max. Marks | - |
|                  | Total                                       | -       | 26            |                                    | Min. Marks                                        | 25 Marks | Min. Marks | - |

**Course Objectives:**

1. ಮಾತ್ಸಭಾಷೆ ಉತ್ತಮ ಸಂವಹನ ಕೌಶಲ್ಯವನ್ನು ವೃದ್ಧಿಸುತ್ತದೆ. ಮುಖ್ಯವಾಗಿ ಆತ್ಮವಿಶ್ವಾಸವನ್ನು ಶಕ್ತಗೊಳಿಸುತ್ತದೆ.
2. ವ್ಯಾಕರಣ ಜ್ಞಾನವನ್ನು ಬೆಳೆಸುತ್ತದೆ.
3. ಕನ್ನಡ ಭಾಷೆ ಮತ್ತು ಸಾಹಿತ್ಯ ಕಲಿಕೆಯ ಪ್ರಕ್ರಿಯೆಯಲ್ಲಿ ಪರಿಣಾಮಕಾರಿ ತರಭೇತಿ ನೀಡುವ ಮಹತ್ತರ ಗುರಿ.
4. ಕನ್ನಡ ಭಾಷೆ ಇತಿಹಾಸ, ಸಾಹಿತ್ಯ, ಸಂಸ್ಕೃತಿ, ಸಾಮಾಜಿಕ ಮೌಲ್ಯಗಳ ಅಳವಡಿಕೆಗಳಿಗೆ ಅನುವು ಮಾಡಿಕೊಡುವುದು. ನೈತಿಕ ಮೌಲ್ಯಗಳನ್ನು ಬೆಳೆಸುವ ನಿಟ್ಟಿನಲ್ಲಿ ಸಾಹಿತ್ಯದ ಅಧ್ಯಯನ.
5. ಹೃದಯದ ಭಾಷೆಯಿಂದ ಹೃದಯವನ್ನು ರಂಜಿಸುವ ಕಲೆಯನ್ನು ಕರಗತ ಮಾಡಿಸುವುದು.

**Course Outcomes (COs):**

- CO 1:** ಮಾತಿನ ಮಹತ್ವ, ವ್ಯಕ್ತಿತ್ವ ವಿಕಸನ, ಹಂಚಿ ತಿನ್ನುವ ಮತ್ತು ಕೂಡಿ ಬಾಳುವ ಸಂಸ್ಕಾರದ ಅರಿವು.
- CO 2:** ಮಾನವರ ವಿಭಿನ್ನ ವರ್ತನೆಗಳಿಗೆ ಪರಿಹಾರೋಪಾಯಗಳು, ಸಾಮಾಜಿಕ, ನೈತಿಕ ಮೌಲ್ಯಗಳನ್ನು ಜೀವನದಲ್ಲಿ ಅಳವಡಿಸಿಕೊಳ್ಳುವಿಕೆ.
- CO 3:** ಮಾನವ-ನಿಸರ್ಗದ ನಡುವಿನ ಅದ್ಭುತ ಸಂಗತಿಗಳು, ಮಾತ್ಸಭಾಷೆಯ ಮಹತ್ವದಂತಹ ವಿಷಯಗಳ ವಿಶ್ಲೇಷಣೆ
- CO 4:** ಸವಾಲುಗಳನ್ನು ಎದುರಿಸುವ, ಸ್ಪಷ್ಟ ಸಮಾಜದ ನಿರ್ಮಾಣಕ್ಕೆ ಆತ್ಮವಿಶ್ವಾಸದಿಂದ ಮುನ್ನುಗ್ಗುವ ಅರಿವಿನ ಚೈತನ್ಯದ ಬೆಳವಣಿಗೆ.
- CO 5:** ಶಿಷ್ಟಭಾಷೆಯ ವ್ಯಾಕರಣ ಜ್ಞಾನ, ಉತ್ತಮ ಸಂವಹನ ಕೌಶಲ್ಯ ವೃದ್ಧಿ.



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## Course Content / Syllabus:

ಕನ್ನಡ ಪಠ್ಯಕ್ರಮ  
ಕನ್ನಡೇತರ ವಿದ್ಯಾರ್ಥಿಗಳಿಗಾಗಿ  
ಪ್ರಥಮ ಬಿ.ಇ. 2020-21

### COURSE OUTCOMES:

Upon successful completion of this course, students will be able to,

- CO 1: ಕೇಳಿಸಿಕೊಳ್ಳುವ ಮತ್ತು ಕೇಳಿದ್ದನ್ನು ಪುನರುಚ್ಚರಿಸುವ ಹಾಗೂ ಧ್ವನಿಲಿಪಿಗಳ ಅರಿವು.  
Listening and applying it in diction and knowledge of sound and script.
- CO 2: ಸರಳವಾದ ಅರ್ಥಸೂಚಕ ಪದಪುಂಜಗಳ ಕಲಿಕೆ ಮತ್ತು ಬಳಕೆ  
Learning and using meaningful and simple words
- CO 3: ಕಾಲ ಸೂಚಕಗಳ ಬಳಕೆಯಿಂದ ವಾಕ್ಯ ರಚನಾ ಸಾಮರ್ಥ್ಯ  
Ability to use tenses in sentence formation
- CO 4: ಓದುವ, ಬರೆಯುವ, ಮಾತನಾಡುವ ಕಲೆ ವೃದ್ಧಿ  
Reading – writing and speaking ability
- CO 5: ಶಿಷ್ಟಭಾಷೆಯ ಮೃಕರಣ ಜ್ಞಾನ,ವಾಕ್ಯತುರ್ಯ ಹಾಗೂ ನಾಡು ನುಡಿಯ ಸಾಂಸ್ಕೃತಿಕ ಅರಿವು  
Knowledge of grammar- language etiquettes- and the knowledge of land and culture

### TOPICS COVERED:

|                                                                                                                                                                                                                                                          |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| UNIT:1 -                                                                                                                                                                                                                                                 | 05 Hours |
| <ul style="list-style-type: none"><li>• ಕೇಳಿಸಿಕೊಳ್ಳುವುದು ಮತ್ತು ಮಾತನಾಡುವುದು- Listening and Speaking</li><li>• ಕನ್ನಡ ವರ್ಣಮಾಲೆ-Alphabets</li><li>• ಸ್ವರಗಳು-Vowels</li><li>• ವ್ಯಂಜನಗಳು-Consonants</li><li>• ಯೋಗವಾಹಗಳು-The Yogavahas – yogavahagalu</li></ul> |          |
| UNIT:2 -                                                                                                                                                                                                                                                 | 05 Hours |
| <ul style="list-style-type: none"><li>• ಕ್ರಿಯಾಪದಗಳು-Verbs</li><li>• ಸರ್ವನಾಮಗಳು-Pronouns</li><li>• ನಾಮವಿಶೇಷಣಗಳು-Adjectives</li></ul>                                                                                                                      |          |
| UNIT:3 -                                                                                                                                                                                                                                                 | 05 Hours |
| <ul style="list-style-type: none"><li>• ಕ್ರಿಯಾಪದಗಳು-Verbs</li><li>• ಕ್ರಿಯಾವಿಶೇಷಣಗಳು-Adverbs</li></ul>                                                                                                                                                    |          |
| UNIT:4 -                                                                                                                                                                                                                                                 | 05 Hours |
| <ul style="list-style-type: none"><li>• ಸಂಭಾಷಣೆ-Conversation</li><li>• ಪರಿಚಯ-Introducing</li><li>• ತರಕಾರಿ ಮಾರುಕಟ್ಟೆ-Vegetable Market</li></ul>                                                                                                           |          |
| UNIT:5 -                                                                                                                                                                                                                                                 | 06 Hours |
| ಹಾಡುಗಾರಿಕೆ, ಚಲನಚಿತ್ರ ವಿಶ್ಲೇಷಣೆ, ಚರ್ಚೆ, ಪ್ರಬಂಧ, ಗಾದೆಗಳು, ಒಗಟುಗಳು, ನಿರೂಪಣೆ, ಸಂದರ್ಶನ, ಆಶುಭಾಷಣ ಸ್ಪರ್ಧೆ, ರಸಪ್ರಶ್ನೆಗಳ ಕಾರ್ಯಕ್ರಮ, ಕಿರು ನಾಟಕ ಸ್ಪರ್ಧೆ ಇತ್ಯಾದಿ.<br>Playback singing, Movie review,debate, Anchoring, interview, pick and speech, quiz, skit etc.   |          |

  
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ಕನ್ನಡ ವಿದ್ಯಾರ್ಥಿಗಳಿಗಾಗಿ  
ಪ್ರಥಮ ಬಿ.ಇ. 2020-21

**COURSE OUTCOMES:**

Upon successful completion of this course, students will be able to,

- CO 1: ಮಾತಿನ ಮಹತ್ವ, ವ್ಯಕ್ತಿತ್ವ ವಿಕಸನ, ಹಂಚಿ ತಿನ್ನುವ ಮತ್ತು ಕೂಡಿ ಬಾಳುವ ಸಂಸ್ಕಾರದ ಅರಿವು.
- CO 2: ಮಾನವರ ವಿಭಿನ್ನ ವರ್ತನೆಗಳಿಗೆ ಪರಿಹಾರೋಪಾಯಗಳು, ಸಾಮಾಜಿಕ, ನೈತಿಕ ಮೌಲ್ಯಗಳನ್ನು ಜೀವನದಲ್ಲಿ ಅಳವಡಿಸಿಕೊಳ್ಳುವಿಕೆ.
- CO 3: ಮಾನವ-ನಿಸರ್ಗದ ನಡುವಿನ ಅದ್ಭುತ ಸಂಗತಿಗಳು, ಮಾತೃಭಾಷೆಯ ಮಹತ್ವದಂತಹ ವಿಷಯಗಳ ವಿಶ್ಲೇಷಣೆ
- CO 4: ಸವಾಲುಗಳನ್ನು ಎದುರಿಸುವ, ಸ್ಪಷ್ಟ ಸಮಾಜದ ನಿರ್ಮಾಣಕ್ಕೆ ಆತ್ಮವಿಶ್ವಾಸದಿಂದ ಮುನ್ನುಗ್ಗುವ ಅರಿವಿನ ಚೈತನ್ಯದ ಬೆಳವಣಿಗೆ.
- CO 5: ಶಿಷ್ಯಭಾಷೆಯ ವ್ಯಾಕರಣ ಜ್ಞಾನ, ಉತ್ತಮ ಸಂವಹನ ಕೌಶಲ್ಯ ವೃದ್ಧಿ.

**TOPICS COVERED:**

**UNIT:1 -**

**05 Hours**

- ಕಾವ್ಯ: 1. ವಚನಗಳು - ಬಸವಣ್ಣ  
2. ನನ್ನ ಹಣತೆ - ಜಿ.ಎಸ್.ಶಿವರುದ್ರಪ್ಪ  
3. ಕೊಣವೇಗೌಡ -ದೇಜಗೌ

**UNIT:2 -**

**05 Hours**

- ಸಂಸ್ಕೃತಿ/ಕತೆ: 1. ಧನ್ವಂತರಿ ಚಿಕಿತ್ಸೆ - ಕುವೆಂಪು  
2. ಅಲೆಕ್ಸಾಂಡರನ ಗುರುದಕ್ಷಿಣೆ - ಮಾಸ್ತಿ ವೆಂಕಟೇಶ ಅಯ್ಯಂಗಾರ್  
3. ಬೆಡ್ ನಂಬರ್ ಏಳು - ತ್ರಿವೇಣಿ

**UNIT:3 -**

**05 Hours**

- ಪರಿಸರ/ವಿಜ್ಞಾನ/ತಾಂತ್ರಿಕ ಬರಹ -1. ಚೀಂಕ್ರಮೇಸ್ತಿ ಮತ್ತು ಅರಿಸ್ಟಾಟಲ್ - ಕೆ.ಪಿ. ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ  
2. ಆನೆಹಳ್ಳದಲ್ಲಿ ಹುಡುಗಿಯರು - ಬಿ.ಜಿ.ಎಲ್. ಸ್ವಾಮಿ  
3. ವೃತ್ತಿ ಶಿಕ್ಷಣದಲ್ಲಿ ಕನ್ನಡ ಮಾಧ್ಯಮ- ಎಸ್.ಸುಂದರ್

**UNIT:4 -**

**05 Hours**

- ವ್ಯಕ್ತಿಚಿತ್ರಣ/ಜೀವನಕಲೆ- 1. ವಿಶ್ವೇಶ್ವರಯ್ಯ ವ್ಯಕ್ತಿ ಮತ್ತು ಐತಿಹ್ಯ-ಎ.ಎನ್. ಮೂರ್ತಿರಾವ್  
2. ಬೆವರಿನ ಮನುಷ್ಯ ಡಾ.ರಾಜ್‌ಕುಮಾರ್- ಬರಗೂರು ರಾಮಚಂದ್ರಪ್ಪ  
3. ಸೋಲೆಂಬುದು ಅಲ್ಪವಿರಾಮ--ನೇಮಿಚಂದ್ರ

**UNIT:5 -**

**06 Hours**

- ಭಾಷಾಕೌಶಲ್ಯ - ಚಟುವಟಿಕೆಗಳು : ಪತ್ರಗಳ ರಚನೆ, ಪ್ರಬಂಧ, ರಚನೆ, ಗಾದೆಗಳು, ಒಗಟುಗಳು, ಸಂಕ್ಷೇಪ ಲೇಖನ, ಭಾಷಾ ಅನುವಾದ, ಸಂದರ್ಶನ, ನಿರೂಪಣೆ, ಚರ್ಚಾ ಸ್ಪರ್ಧೆ, ಸಣ್ಣ ಕಿರುನಾಟಕ, ಚಲನಚಿತ್ರ ವಿಮರ್ಶೆ.



*[Signature]*  
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**Text Books:**

ಕನ್ನಡ ಸೃಂದನ (ಕನ್ನಡ ವಿದ್ಯಾರ್ಥಿಗಳಿಗಾಗಿ)  
ಕನ್ನಡ ಮನನ (ಕನ್ನಡೇತರ ವಿದ್ಯಾರ್ಥಿಗಳಿಗಾಗಿ)

**Reference Books:**

೧. ಕನ್ನಡ ಮನಸು -( ಇಂಜಿನಿಯರಿಂಗ್ ಹಿಂದಿನ ಪಠ್ಯ ಪುಸ್ತಕ)
೨. ಕನ್ನಡ ಕಲಿ - ( ಇಂಜಿನಿಯರಿಂಗ್ ಹಿಂದಿನ ಪಠ್ಯ ಪುಸ್ತಕ)
೩. ತಾಂತ್ರಿಕ ಕನ್ನಡ-(ಡಿಪ್ಲೊಮಾ ಪಠ್ಯ ಪುಸ್ತಕ)
೪. ಕನ್ನಡ ವ್ಯಾಕರಣ

**Weblinks:**

1. kannadakalike.org
2. kannadabaruthe.co.in
3. ccat.sas.upenn.edu

**Evaluation Scheme:**

**Continuous Internal Evaluation – CIE**

| Event   | Event Type       | Marks Allotted | Duration |
|---------|------------------|----------------|----------|
| CIE – 1 | Written Test – 1 | 20             | 1 Hour   |
| CIE – 2 | Event            | 10             | 1 Hour   |
| CIE – 3 | Written Test – 2 | 20             | 1 Hour   |

**Note:**

1. The written test 1 & 2 (CIE – 1 & 3) both will be conducted for 20 marks each in 1 hour duration.
2. The Event (CIE – 2) will be conducted for 20 marks and the marks scored will be reduced proportionately to 10 marks.
3. The Event (CIE – 2) will be skill based assessment such as Seminars / Technical talks / Case study / hands-on activity / Mini projects / Sci-tech activity / Data analysis.
4. A student must score on an average of 50% i.e., 25 marks out of 50 from all the events (CIE - 1, 2, 3) to pass.

  
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**DEPARTMENT OF HUMANITIES**

**SCHEME & SYLLABUS**

**Third / Fourth Semester**

**(From the Academic Year 2022-23)**

| Course Title     | ENVIRONMENTAL STUDIES |         |               | Course Type                        | Humanities, Social Sciences and Management Course |          |            |   |
|------------------|-----------------------|---------|---------------|------------------------------------|---------------------------------------------------|----------|------------|---|
| Course Code      | 22HU312 / 22HU412     | Credits | 0             | Class                              | III / IV Semester                                 |          |            |   |
| Course Structure | TLP                   | Credits | Contact Hours | Total Number of Classes / Semester | Assessment in Weightage and Marks                 |          |            |   |
|                  | Theory                | -       | 26            | Theory                             | CIE                                               |          | SEE        |   |
|                  | Practical             | -       | -             | 26                                 | Weightage                                         | 100%     | Weightage  | - |
|                  | Tutorial              | -       | -             |                                    | Max. Marks                                        | 50 Marks | Max. Marks | - |
|                  | Total                 | -       | 26            |                                    | Min. Marks                                        | 25 Marks | Min. Marks | - |

**COURSE PREREQUISITE: NIL**

**COURSE OBJECTIVE:** The student gains knowledge on basic concepts on Environmental aspects and understands its importance in various disciplines for safeguarding the environment.

**COURSE OUTCOMES (COs)**

| CO # | Course Outcomes                                                                                                                           | Highest Level of Cognitive Domain |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| CO1  | Understand the principles of ecology and environmental issues that apply to air, land, and water attributes at regional and global scale. | L2                                |
| CO2  | Develop critical thinking/observation skills - apply them to identify and analyze Environmental issues.                                   | L2                                |
| CO3  | Understand the complex ecological relationship between biotic and abiotic components.                                                     | L2                                |
| CO4  | Apply ecological knowledge to illustrate and address environmental problems for better management.                                        | L2                                |
| CO5  | Understand the recent technologies and legal aspects related to the environment.                                                          | L2                                |



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**Course Articulation:**

| COs<br>↓ | PROGRAM OUTCOMES |     |     |     |     |     |     |     |     |      |      |      | PROGRAM SPECIFIC OUTCOMES |      |      |      |
|----------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|---------------------------|------|------|------|
|          | PO1              | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1                      | PSO2 | PSO3 | PSO4 |
| CO1      |                  |     |     |     |     |     |     |     |     |      |      |      |                           |      |      |      |
| CO2      |                  |     |     |     |     |     |     |     |     |      |      |      |                           |      |      |      |
| CO3      |                  |     |     |     |     |     |     |     |     |      |      |      |                           |      |      |      |
| CO4      |                  |     |     |     |     |     |     |     |     |      |      |      |                           |      |      |      |
| CO5      |                  |     |     |     |     |     |     |     |     |      |      |      |                           |      |      |      |

High – 3, Medium – 2, Low – 1

**Course Content / Syllabus:**

| UNIT No. | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Lecture Hours |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1        | Introduction: Environment - Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security.<br>Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development                                                                                                                                                           | 5             |
| 2        | Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & non-conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. | 7             |
| 3        | Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects.<br>Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.                                                                                                                                                                                                                                                                      | 5             |
| 4        | Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods.                                                                                                                                                                                                                            | 5             |
| 5        | Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-Governmental Organizations (NGOs), Environmental Education & Women Education.                                                                                                                                                                                                         | 4             |

**Text Books:**

1. Benny Joseph. "Environmental Studies", Tata McGraw – Hill Publishing Company Limited. 2005.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy. "Environmental Studies", Wiley India Private Ltd., New Delhi. 2009.
3. R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005.
4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

**Reference Books:**

1. Raman Sivakumar, "Principals of Environmental Science and Engineering", 2nd Edition, Cengage learning Singapore, 2005.
2. P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006.
3. S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007.
4. Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005.
5. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006.

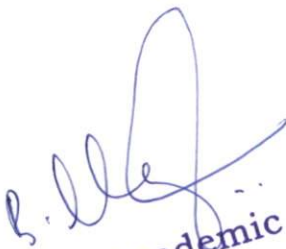
**Evaluation Scheme:****Continuous Internal Evaluation – CIE**

| Event   | Event Type       | Marks Allotted | Duration |
|---------|------------------|----------------|----------|
| CIE – 1 | Written Test – 1 | 20             | 1 Hour   |
| CIE – 2 | Event            | 10             | 1 Hour   |
| CIE – 3 | Written Test – 2 | 20             | 1 Hour   |

**Note:**

1. The written test 1 & 2 (CIE – 1 & 3) both will be conducted for 20 marks each in 1 hour duration.
2. The Event (CIE – 2) will be conducted for 20 marks and the marks scored will be reduced proportionately to 10 marks.
3. The Event (CIE – 2) will be skill based assessment such as Seminars / Technical talks / Case study / hands-on activity / Mini projects / Sci-tech activity / Data analysis.
4. A student must score on an average of 50% i.e., 25 marks out of 50 from all the events (CIE - 1, 2, 3) to pass.



  
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**DEPARTMENT OF HUMANITIES**

**SCHEME & SYLLABUS**

**Third / Fourth Semester**

**(From the Academic Year 2022-23)**

| Course Title     | UNIVERSAL HUMAN VALUES |         |               | Course Type                        | Humanities, Social Sciences and Management Course |          |            |          |
|------------------|------------------------|---------|---------------|------------------------------------|---------------------------------------------------|----------|------------|----------|
| Course Code      | 22HU311 / 22HU411      | Credits | 02            | Class                              | III / IV Semester                                 |          |            |          |
| Course Structure | TLP                    | Credits | Contact Hours | Total Number of Classes / Semester | Assessment in Weightage and Marks                 |          |            |          |
|                  | Theory                 | 2       | 26            | Theory                             | CIE                                               |          | SEE        |          |
|                  | Practical              | -       | -             | 26                                 | Weightage                                         | 40%      | Weightage  | 60%      |
|                  | Tutorial               | -       | -             |                                    | Max. Marks                                        | 20 Marks | Max. Marks | 30 Marks |
|                  | Total                  | 02      | 26            |                                    | Min. Marks                                        | 10 Marks | Min. Marks | 13 Marks |

**Pre-requisites:** Students Induction Program (desirable).

**Course Objectives:**

1. Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence.
2. Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence
3. Strengthening of self-reflection.
4. Development of commitment and courage to act.

**Course Outcomes (COs):** After the completion of the course a student will –

1. **CO1:** Become more aware of themselves, and their surroundings (family, society, nature); they would become more responsible in life, and in handling problems with sustainable solutions, keeping human relationships and human nature in mind.
2. **CO2:** Have better critical ability and also become sensitive to their commitment towards what they have understood (human values, human relationship and human society).

**CO-PO Mapping (Articulation Matrix):**

|     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO1 |     |     |     |     |     | 1   | 2   | 2   |     |      |      |      |
| CO2 |     |     |     |     |     | 1   | 1   | 1   |     |      |      |      |

**Syllabus:**

  
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**Module 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education**

1. Purpose and motivation for the course, recapitulation from Universal Human Values-I
2. Self-Exploration—what is it? - Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration
3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
4. Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
6. Method to fulfil the above human aspirations: understanding and living in harmony at various levels.

**Module 2: Understanding Harmony in the Human Being - Harmony in Myself!**

7. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
8. Understanding the needs of Self ('I') and 'Body' - happiness and physical facility
9. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
10. Understanding the characteristics and activities of 'I' and harmony in 'I'
11. Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail
12. Programs to ensure Sanyam and Health.

**Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship**

13. Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfilment to ensure mutual happiness; Trust and Respect as the foundational values of relationship
14. Understanding the meaning of Trust; Difference between intention and competence
15. Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship
16. Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals
17. Visualizing a universal harmonious order in society- Undivided Society, Universal Order- from family to world family.

**Module 4: Understanding Harmony in the Nature and Existence - Whole existence as Coexistence**

18. Understanding the harmony in the Nature
19. Interconnectedness and mutual fulfilment among the four orders of nature- recyclability and self-regulation in nature
20. Understanding Existence as Co-existence of mutually interacting units in all pervasive space
21. Holistic perception of harmony at all levels of existence.

**Module 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics**

22. Natural acceptance of human values
23. Definitiveness of Ethical Human Conduct
24. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
25. Competence in professional ethics: a. Ability to utilize the professional competence for augmenting universal human order b. Ability to identify the scope and characteristics of people

- friendly and eco-friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems.
26. Case studies of typical holistic technologies, management models and production systems
  27. Strategy for transition from the present state to Universal Human Order: a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers b. At the level of society: as mutually enriching institutions and organizations
  28. Sum up.

#### Text Books:

1. Human Values and Professional Ethics by R R Gaur, R Sangal, G P Bagaria, Excel Books, New Delhi, 2010

#### Reference:

1. Jeevan Vidya: Ek Parichaya, A Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999.
2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004.
3. The Story of Stuff (Book).
4. The Story of My Experiments with Truth - by Mohandas Karamchand Gandhi
5. Small is Beautiful - E. F Schumacher.
6. Slow is Beautiful - Cecile Andrews
7. Economy of Permanence - J C Kumarappa
8. Bharat Mein Angreji Raj - PanditSunderlal
9. Rediscovering India - by Dharampal
10. Hind Swaraj or Indian Home Rule - by Mohandas K. Gandhi
11. India Wins Freedom - Maulana Abdul Kalam Azad
12. Vivekananda - Romain Rolland (English)
13. Gandhi - Romain Rolland (English)

#### Weblinks:

1. <https://onlineethics.org/>

#### Evaluation Scheme:

##### Continuous Internal Evaluation – CIE

| Event   | Event Type       | Marks Allotted | Duration |
|---------|------------------|----------------|----------|
| CIE – 1 | Written Test – 1 | 10             | 1 Hour   |
| CIE – 2 | Event            | 10             | 1 Hour   |

#### Note:

1. The CIE – 1 & CIE – 2 both will be conducted for 20 marks each in 1 hour duration and the marks scored will be reduced proportionately to 10 marks each.
2. The Event (CIE – 2) will be skill based assessment such as Experiential Learning Seminars / Technical talks / Case study / Hands-on activity / Mini projects / Sci-tech activity / Data analysis.
3. A student must score on an average of 50% i.e., 10 marks out of 20 from all the events (CIE – 1 & 2) to gain the eligibility to appear for SEE.

##### Semester End Examination – SEE

| Event | Event Type          | Marks Allotted | Duration  |
|-------|---------------------|----------------|-----------|
| SEE   | Written Examination | 50             | 1.5 Hours |

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**Note:**

1. The SEE will be conducted for 50 marks and the marks scored will be proportionately reduced to 30 marks. A student must score a minimum of 21 marks out of 50 in the SEE to pass.
2. SEE Question paper will be set for 100 marks and will have two parts (Part-A & Part-B). Questions under Part-A are compulsory and questions under Part-B will have internal choices.

  
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**DEPARTMENT OF HUMANITIES**

**SCHEME & SYLLABUS**

**First Semester**

**(From the Academic Year 2022-23)**

| Course Title     | FUNCTIONAL ENGLISH |         |               | Course Type                        |           | HSMC                              |          |            |          |
|------------------|--------------------|---------|---------------|------------------------------------|-----------|-----------------------------------|----------|------------|----------|
| Course Code      | 22HU130 / 22HU230  | Credits | 1             | Class                              |           |                                   |          |            |          |
| Course Structure | TLP                | Credits | Contact Hours | Total Number of Classes / Semester |           | Assessment in Weightage and Marks |          |            |          |
|                  | Theory             | 0       | 0             | Theory                             | Practical | CIE                               |          | SEE        |          |
|                  | Practical          | 0       | 0             | 2                                  | 0         | Weightage                         | 40%      | Weightage  | 60%      |
|                  | Tutorial           | 1       | 2             |                                    |           | Max. Marks                        | 40 Marks | Max. Marks | 60 Marks |
|                  | Total              | 1       | 2             |                                    |           | Min. Marks                        | 20 Marks | Min. Marks | 25 Marks |

**Course Overview:** This course imbibes English Grammar, Vocabulary and LSRW skills to achieve better Technical writing and Presentation skills for employment.

**Pre requisites:** Must have studied Fundamental English Grammar in class XI & XII.

**Course Objective:**

1. Educate the students about the utilization of proper and grammatical English language in their academics, research and professional activities to communicate effectively.
2. Enhance with English vocabulary and language proficiency for better communication skills.
3. To achieve better writing and presentation skills for employment.

**Course Outcome:**

| CO# | Course Outcome                                                                                                                                                                            | Highest Level of Cognitive Domain |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| CO1 | Use proper English grammar and all types of vocabulary to improve their language proficiency.                                                                                             | L2                                |
| CO2 | Identify the nuances of phonetics, intonation and enhance pronunciation skills.                                                                                                           | L2                                |
| CO3 | Apply the communication skills in their personal and professional interactions.                                                                                                           | L3                                |
| CO4 | Demonstrate the writing skills in precise writing, report writing and letter writing; communicative skills accurately and fluently in their personal, academic and business interactions. | L2                                |

|            |                                                                                                  |    |
|------------|--------------------------------------------------------------------------------------------------|----|
| <b>CO5</b> | Apply the communication skills in their personal and professional interactions or presentations. | L3 |
|------------|--------------------------------------------------------------------------------------------------|----|

**Course Articulation:**

| POs →<br>COs ↓ | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| <b>CO1</b>     | -   | -   | -   | -   | -   | -   | -   | -   | -   | 3    | -    | 1    |
| <b>CO2</b>     | -   | -   | -   | -   | -   | -   | -   | -   | -   | 3    | -    | 1    |
| <b>CO3</b>     | -   | -   | -   | -   | -   | -   | -   | -   | -   | 3    | -    | 1    |
| <b>CO4</b>     | -   | -   | -   | -   | -   | -   | -   | -   | -   | 3    | -    | 1    |
| <b>CO5</b>     | -   | -   | -   | -   | -   | -   | -   | -   | -   | 3    | -    | 1    |

**Course Content / Syllabus:**

| UNIT No. | Content                                                                                                                                                                                                                                                                                                                                                           | Hours                      |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| UNIT 1   | <b>Basic English Grammar and Vocabulary – I:</b><br>Grammar: Basic English grammar and Parts of Speech, Usage of Articles and preposition, Question Tags, One Word Substitution, Strong and Weak forms of words and all types of vocabulary.                                                                                                                      | Lecture /<br>Tutorial<br>5 |
| UNIT 2   | <b>Basic English Grammar and Vocabulary – 2:</b><br>Words Formation – Prefixes and Suffixes, Importance of Proper Punctuation, Tenses and All Types of Tenses, The sequence of Tenses (rules in use of tenses) and exercises on it, Voices and Reported Speech, Sentences and Degrees of Comparison.                                                              | Lecture /<br>Tutorial<br>5 |
| UNIT 3   | <b>Introduction to Phonetics:</b><br>Phonetics Transcription, English Pronunciation, Pronunciation Guidelines to Consonants and Vowels, Sounds Mispronounced, Silent and Non-Silent Letters, Syllable and Structures, word access, Stress Shift and Intonation, Spelling Rules and Words often Misspelt, Common Errors in Pronunciation, Homophones and Homonyms. | Lecture /<br>Tutorial<br>5 |
| UNIT 4   | <b>Professional Writing Skills:</b><br>Types and Significance of Different Kinds of Letters and Report Writing, Bio-data, Profile and CV, Meaning and Usage of Idioms and Phrases in Sentences, Expansion of Proverbs, Comprehension of an Unseen Passage.                                                                                                        | Lecture /<br>Tutorial<br>6 |
| UNIT 5   | <b>Effective Communication Skills:</b><br>Group Discussion and Professional Interviews, Characteristics and Strategies of a Group Discussion and Professional Interviews, Intra and Interpersonal Communication Skills, Non-verbal Communication Skills and Its Importance in Group Discussion and Interview, Presentation Skills.                                | Lecture /<br>Tutorial<br>5 |

**Text Books:**

1. Functional English (As per AICTE 2018 Model Curriculum) (ISBN-978-93-5350-047-4)  
Cengage learning India Pvt Limited [Latest Edition 2019].

2. Basic Grammar – S L N Sharma and K Shankaranarayana – Navakarnataka Publications Private Limited, 2013.
3. Communication Skills – Sanjay Kumar & Pushp Lata – Oxford University Press India Pvt Ltd – 2019.
4. Professional Writing Skills in English – Fillip Learning – Education (ILS), Bangalore – 2022.

#### Reference Books:

1. English for Engineers – N P.Sudharshana and C.Savitha – Cambridge University Press – 2018.
2. English Grammar and Composition (Wren and Martin) – N D V Prasad Rao – BLACKIE ELT Books, 2008.
3. Oxford Guide to Effective Writing and Speaking – John Seely – Oxford University Press, 2013.
4. Technical Communication – Gajendra Singh Chauhan and Et al, (ISBN-978-93-5350-050-4), Cengage learning India Pvt Limited [Latest Revised Edition] - 2019.

#### Web/Digital resources:

1. [www.amigosingleses.com](http://www.amigosingleses.com)
2. [www.bbc.co.uk/learninenglish](http://www.bbc.co.uk/learninenglish)
3. [www.talkenglish.com](http://www.talkenglish.com)

#### Evaluation Scheme:

##### Continuous Internal Evaluation – CIE

| Event   | Event Type       | Marks Allotted | Duration |
|---------|------------------|----------------|----------|
| CIE – 1 | Written Test – 1 | 30             | 1 Hour   |
| CIE – 2 | Event            | 20             | 1 Hour   |
| CIE – 3 | Written Test – 2 | 30             | 1 Hour   |

#### Note:

1. The written test 1 & 2 (CIE – 1 & 3) both will be conducted for 30 marks each in 1 hour duration and the marks scored will be reduced proportionately to 15 marks each.
2. The Event (CIE – 2) will be conducted for 20 marks and the marks scored will be reduced proportionately to 10 marks.
3. The Event (CIE – 2) will be skill based assessment such as Report writing / Oral presentations / Group Discussion / Viva / Communication skills activity.
4. A student must score on an average of 50% i.e., 20 marks out of 40 from all the events (CIE - 1, 2, 3) to gain the eligibility to appear for SEE.

##### Semester End Examination – SEE

| Event | Event Type          | Marks Allotted | Duration |
|-------|---------------------|----------------|----------|
| SEE   | Written Examination | 60             | 2 Hours  |

**Note:** The SEE will be conducted for 50 marks. A student must score a minimum of 25 marks out of 60 in the SEE to pass.

  
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|                                                                     |                                                           |
|---------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Course Title:</b> <i>Essence of Indian Traditional Knowledge</i> | <b>Course Code:</b> <i>20HU511</i>                        |
| <b>Credits:</b> <i>0</i>                                            | <b>Total Contact Hours:</b> <i>L:T:P</i><br><i>26:0:0</i> |
| <b>Type of Course:</b> <i>Theory</i>                                | <b>Category:</b> <i>HSMC</i>                              |
| <b>CIE Marks:</b> <i>50</i>                                         | <b>SEE Marks:</b> <i>---</i>                              |

**Pre-requisite:** nil

**Course Objectives:**

1. The course aims at imparting basic principles of thought process, reasoning and inferencing.
2. To focus on introduction to Indian Knowledge Systems, Indian perspective of modern scientific world-view, and basic principles of Yoga and holistic health care system.

**Course Outcome:** After completing this course, students should be able to:

|     |                                                                                                                        |
|-----|------------------------------------------------------------------------------------------------------------------------|
| CO1 | Ability to understand, connect up and explain basics of Indian traditional knowledge in modern scientific perspective. |
|-----|------------------------------------------------------------------------------------------------------------------------|

| Unit No. | Course Content                                                                                                                                                                                                                                                   | No. of Hours |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1        | Basic structure of Indian Knowledge System: Ashtadhashavidya – 4 Veda, 4 Upaveda (Ayurveda, Dhanurveda, Gandarvaveda, Sthapathya Adi) 6 Vedanga (Shiksha, Kalp, Nirukth, Vyakaran, Jyothishya, Chand) 4 Upadg (Dharmashashtra, Mimamsa, Purana, Tharkashashtra). | 12           |
| 2        | Modern Science and Indian Knowledge System                                                                                                                                                                                                                       | 4            |
| 3        | Yoga and Holistic Health care                                                                                                                                                                                                                                    | 6            |
| 4        | Case studies                                                                                                                                                                                                                                                     | 4            |

**Reference Books:**

1. V. Sivaramakrishnan (Ed.), Cultural Heritage of India-course material, Bharatiya Vidya Bhavan, Mumbai. 5th Edition, 2014.
2. Swami Jitatmanand, Modern Physics and Vedant, Bharatiya Vidya Bhavan.
3. Swami Jitatmanand, Holistic Science and Vedant, Bharatiya Vidya Bhavan.
4. Fritzof Capra, Tao of Physics.
5. Fritzof Capra, The Wave of life.
6. VN Jha (Eng. Trans.), Tarkasangraha of Annam Bhatta, International Chinmay Foundation, Velliarnad, Arnakulam.
7. Yoga Sutra of Patanjali, Ramakrishna Mission, Kolkata.
8. GN Jha (Eng. Trans.), Ed. RN Jha, Yoga-darshanam with Vyasa Bhashya, Vidyanidhi Prakashan, Delhi 2016.
9. RN Jha, Science of Consciousness Psychotherapy and Yoga Practices, Vidyanidhi Prakashan, Delhi 2016.
10. P B Sharma (English translation), Shodashang Hridayan.

**Pedagogy:** Problem based learning, group discussions, collaborative mini projects.

**Mapping Course Outcomes with Program outcomes & Program Specific outcomes**

|     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| CO1 | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 2   | 0   | 0    | 0    | 1    |

0 -- No association 1---Low association, 2--- Moderate association, 3---High association



*[Signature]*  
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