



SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



Syllabus for the Academic Year-2020-2021

Department: Humanity Science

Subject Name: Environmental Studies

Subject Code: HS-EV102/202

Semester: I/II

L-T-P-C: 2-0-0-0

Course Objectives:

1. Imparting basic knowledge about the environment
2. Developing an attitude of concern for the environment
3. Creating the awareness about environmental problems

UNIT-I

Environment-Definition, Components of environment, Ecosystem- Types of ecosystem, Human activities-Food, Shelter, Economic and Social security. Effects of human activities on environment-Agriculture, Housing, Industry, Mining and Transportation, Environmental Impact Assessment (EIA), Sustainable development.

6 Hours

UNIT-II

Natural resources-Introduction, Types of resources, Water resources-Availability and Quality aspects. Water borne diseases, Water induced diseases, Fluoride problem in drinking water. Mineral resources, Forest wealth, Materials cycles-Carbon, Nitrogen and Sulphur cycles.

5 Hours

UNIT-III

Energy – Introduction, Different types of energy: Hydroelectric, Solar, Nuclear energy sources (Production, merits and demerits). Hydrogen as an alternative future source of energy.

5 Hours

UNIT-IV

Environmental pollution and their effects: Introduction, Pollutants, Classification of pollutants based on the form they exist, biological degradability and their existence. Types of environmental pollution: Air pollution, Water pollution, Land pollution, Noise pollution. Public health aspects.

5 Hours

UNIT-V

Current environmental issues of importance: Population growth, Climate change and Global warming effects, Urbanization, Acid rain, Ozone layer depletion, Environmental protection - Role of Government, Legal aspects, Initiatives by Non - Governmental Organizations (NGO), Environmental Education, Women Education.

5 Hours

Text Books

1. Environmental Studies-Dr.R.Geetha Balakrishna, Sunstar Publishers, 7th Edition, 2016
2. Environmental Studies - Dr. S.M. Prakash –Elite Publishers, 2007

Reference Books


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1. Principles of Environmental Science and Engineering - P. Venugopala Rao, Prentice Hall of India.
2. Environmental Science and Engineering-Meenakshi, Prentice Hall, India

Course Outcomes: After completion of this course students are able to,

CO1: Recognize the physical, chemical and biological components of earth's system

CO2: Know the different types of energy sources available in nature

CO3: Analysis of different types of pollution and their effects

CO4: Critically examine all sides of current environmental issues

Syllabus for the Academic Year – 2020- 2021

Department: Physics Semester: I/II

Subject Name: CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS

Subject Code: HS-CP101/201

L-T-P-C:2-0-0-1

(26 Hours)

Course Objectives:

Sl.No	Course Objectives
1	To be familiar with basic information about the constitution of India.
2	To understand the basic rights guaranteed in fundamental rights to the citizen of India.
3	To understand the relevance of directive principles under part-IV, and the responsibilities of the individuals towards society.
4	To provide aims and scope, and different impediments of engineering ethics.

Course Outcomes

Course Outcome	Descriptions
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CO1	Have general knowledge and legal literacy and thereby to take up competitive examinations
CO2	Understand the freedom, rights and restrictions including directives, through fundamental duties
CO3	Understand the importance of the three main organs of the constitution, Viz- the legislature, the executive and the judiciary.
CO4	Understand the power and functions of political institutions established throughout the country. and understands the professional ethics and engineer's responsibilities.

UNIT	Description	Hours
I	Introduction, Meaning and definitions. Salient features, Sources, Constituent Assembly, Drafting Committee. Preamble to the constitution of India.	5 hrs
II	Fundamental rights under part III – details of exercise of rights, Scopes & Limitations and, important cases Relevance of directive principles of state policy under part-IV Fundamental duties and their significance-part-IV A	6hrs
III	Union Executive- President, Prime minister, Parliament and Supreme Court of India. State Executive – Governors, Chief Ministers, State legislature and High Courts.	5hrs
IV	Constitutional Provisions for Scheduled Castes and Tribes, Women, Children and backward classes. Emergency provisions under Part XVIII. Electoral process, Amendment procedure, 42 nd , 44 th , 74 th , 76 th , and 91 st Constitutional amendments.	5hrs
V	Scope and aims of engineering ethics, responsibility of engineers, Impediments to responsibility. Honesty, integrity and reliability, risks, safety, and liability, in engineering.	5hrs


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Text Books

Sl No	Author	Text Book title	Publisher	Volume / Issue	Year of Edition
1	DurgaDas Basu,)	Introduction to the Constitution of India” (student edition	Prentice-Hall	EEE, 19 th /20 th Edn.,	2001.
2	Charles E Haries, Michael, S Pritchard and Michael J	Engineering Ethics”	Robins Thompson Asia	.Volume-2	2003-08-05

Reference Book: (Max 4)

Sl No	Author	Text Book title	Publisher	Volume / Issue	Year of Edition
1	MV Pylee.	An Introduction to Constitution of India”	Vikas Publishing,	Volume-1	2002.
2	Brij kishore Sharma,	An Introduction to Constitution of India”	prentice-Hall of India,	Volume-1	2002.
3	V. Rajaram –	Constitution of India and Professional Ethics	New Age International Publication.	Second Edition	2011
4	M Govindarajan V S Senthikumar,	Engineering Ethics	Prentice-hall of India Pvt Ltd , New Delhi,	First edition	2004 .


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Syllabus for the Academic Year - 2019 - 2020

Department : Humanity and Science

Semester: I/II

Subject Name: Professional English

Subject Code: HS- EN101/201

L-T-P-C: 3 - 0 - 0 - 3

Course Objectives:

Sl.No	Course Objectives
1	To understand the vocabulary and structure of the English language as it is used in academic writing.
2	To practice rhetorical methods of writing development that are common in business writing and correspondence.
3	To improve the listening, reading, writing, and critical thinking skills needed for academic success.
4	To perform discipline-appropriate exercises and activities to develop the interpersonal, academic, and language skills necessary to succeed in a university or college environment.

Course Outcomes

Course outcome	Descriptions
CO1	The ability to analyze, interpret and understand the complex interrelationships between authors, texts and specific social contexts.
CO2	A demonstrable ability to use the terms, categories, and concepts of critical or "close reading".
CO3	The ability to write well- critically, creatively, or both, mature in its voice and cogency.
CO4	To strengthen their ability to write academic papers, essays and summaries using the process approach.
CO5	To improve their reading fluency skills through extensive reading

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UNIT	Description	Hours
I	<u>Introduction to communication</u> Communication as sharing; context of communication; the speaker/writer and the listener/reader; medium of communication; barriers to communication; accuracy, brevity, clarity and appropriateness in communication. Written communication Letter writing-informal and formal-letters of enquiry, letters of complaint, response to complaint and enquiries, Self exploration through description	8
II	<u>Technical english</u> Grammar through worksheets ,Situational activities and modules-parts of speech,tenses,articles,active-passive voices,subject verb agreement,direct and indirect speech,degree of comparison,Sentences: simple,complex,declarative,assertive,negative,interrogative,exclamatory.	8
III	<u>Vocabulary building</u> Euphemism,one word substitution,synonym,antonym,homophones,idioms and phrases,common mistakes,confusable words and expressions.	8
IV	<u>Presentation skills</u> Modes,means and purposes of presentation,defining purpose ,analyzing audience and organizing the contents ,visual aids and nuances of delivery,body language and effective presentation	8
V	<u>Reading comprehension</u> Based on short stories, newspaper and essays, Reading at various speeds (slow, fast, very fast); reading different kinds of texts for different purpose (e.g. for relaxation, for information, for discussion at a later stage, etc.); reading between the lines.Comprehension of Unseen Passages	8

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Text Books:

Sl No	Text Book title	Author	Volume and Year of Edition
1	high school grammar composition	Wren Pc and martin H	S chand and co.
2	interpersonal communication: The whole story	K .Floyd	(2009)"McGraw hill.
3	An introduction to English grammar	Greenbaum Sydney and nelson Gerald	Pearson
4	practical English usage	Swan Michael	OUP 2005


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Syllabus for the Academic Year - 2019 - 2020

Department: Humanity and Science

Semester: I /II

Subject Name: Kannada

Subject Code: HS- KA101/201

L-T-P-C: 3-0-0-1

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ಕಲಿಕೆ ಅವಧಿ : ವಾರಕ್ಕೆ 2 ಗಂಟೆ

- | | | |
|---|---|----------------------------|
| 1) ಶ್ರಾವಣ (ಕವನ) | : | ದಾ.ರಾ ಬೇಂದ್ರೆ |
| 2) ಡಾ ವಿಶ್ವೇಶ್ವರಯ್ಯ ವ್ಯಕ್ತಿ ಮತ್ತು ವ್ಯಕ್ತಿ ಚಿತ್ರ | : | ಎ.ಎನ್.ಮೂರ್ತಿರಾವ್ |
| 3) ದೋಣಿ ಹರಿಗೋಲುಗಳಲ್ಲಿ(ಪ್ರವಾಸ ಕಥನ) | : | ಶಿವರಾಮ ಕಾರಂತ |
| 4) ಅಣ್ಣಪ್ಪನ ರೇಷ್ಮೆ ಖಾಯಿಲೆ(ಪ್ರಭಂದ) | : | ಕುವೆಂಪು |
| 5) ನಮ್ಮ ಎಮ್ಮೆಗೆ ಮಾತು ತಿಳಿಯುವುದೇ(ವಿನೋದ) | : | ಗೋರೂರು ರಾಮಸ್ವಾಮಿ ಅಯ್ಯಂಗಾರ್ |
| 6) ಆನೆ ಹಳ್ಳದಲ್ಲಿ ಹುಡುಗಿಯರು(ವಿಜ್ಞಾನ ಲೇಖನ) | : | ಬಿ.ಜಿ.ಎಲ್ ಸ್ವಾಮಿ |
| 7) ಬೆಡ್ ನಂಬರ್ ಎಳು(ಕಥೆ) | : | ತ್ರಿವೇಣಿ |
| 8) ರೊಟ್ಟಿ ಮತ್ತು ಕೋವಿ(ಕಥೆ) | : | ಸುರಂ ಎಕ್ಕಂಡಿ |
| 9) ಗುಬ್ಬಚ್ಚಿ ಗೂಡು(ಅಂಕಣ ಬರಹ) | : | ಪಿ.ಲಂಕೇಶ್ |
| 10) ಚೇಂಕ್ರ ಮೇಸ್ತಿ ಮತ್ತು ಹಾವು ಮೀನು(ಪರಿಚಯ ಲೇಖನ) | : | ಕೆ.ಪಿ.ಪೊರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ |
| 11) ಗಾಂಧಿ(ಕಥೆ) | : | ಬೆಸಗರ ಹಳ್ಳಿ ರಾಮಣ್ಣ |
| 12) ಬೆಲ್ವಿಯಂ ಹಾಡು(ಕವನ) | : | ಸಿದ್ದಲಿಂಗಯ್ಯ |
| 13) ಎಲ್ಲ ಹುಡುಗಿಯರ ಕನಸು(ಕವನ) | : | ಸವಿತಾ ನಾಗಭೂಷಣ |
| 14) ನೀರು (ಕಥೆ) | : | ಬಸವರಾಜ ಕುಕ್ಕರಹಳ್ಳಿ |
| 15) ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಯ ಸ್ವರೂಪ(ಪರಿಚಯ ಲೇಖನ) | : | ರಹಮತ್ ತರೀಕೆರೆ |
| 16) ತಂತ್ರಜ್ಞಾನ ಕಲಿಕೆಯಲ್ಲಿ ಭಾಷೆ(ತಂತ್ರಜ್ಞಾನ ಬರಹ) | : | ಎಸ್.ಸುಂದರ್ |
| 17) ಕೊಣವೇ ಗೌಡ(ಕಾವ್ಯ) | : | ಜಾನಪದ |

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KANNADA KALI

- | | |
|---|--|
| 1. Introduction each other - 1. | Personal, Possessive forms, Interrogative words. |
| 2. Introduction each other -2.
Interrogation | Personal, Possessive forms, Yes/NO type |
| 3. About Ramayana
nouns | Possessive forms of nouns, dubitive question, Relative |
| 4. Enquiries about a room for rent. | Qualitative and quantitative adjectives. |
| 5. Enquiring about the college | Productive forms locative case |
| 6. In a Hostel | Productive forms locative case |
| 7. Vegetable market | Numeral, plurals |
| 8. Planning for a picnic | Imperative, permissive, hortative |
| 9. Conversion between and the patient | Verb-iru, negation, illa, non-past tense |
| 10. Doctors advise to patient | Potential forms, no past continuous |
| 11. Discussion about a firm | Past tense, negation |
| 12. About Brindavan Garden | Past tense, negation |
| 13. About routine activities of a student | Verbal participle, reflexive form, negation |
| 14. Telephone conversation
their negation | Past and present, present past continuous and |
| 15. About Belur and Halebidu | Relative participle, negation |
| 16. Discussing about examination and future plan :Simple conditional and negative | |
| 17. Karnataka (lesson for reading) | |
| 18. kannada bhaashe(lesson for reading) | |
| 19. mana tarvua sangati alla(lesson for reading) | |
| 20. beku bedagalu(leasson for reading) | |

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Department: Mechanical Engineering

Semester: III

Subject Name: MANAGEMENT AND ENTREPRENEURSHIP

Subject Code: ME3TH2

L-T-P-C: 3-0-0-3

Course Objectives:

Sl. No	Course Objectives
1	To understand the concept of management and functions of a manager in industry.
2	To understand the concept of planning, organizing, directing and controlling process in management
3	To understand the concept of entrepreneurship and small-scale industries
4	To understand the concept of industrial ownership and partnership

Unit	Description	Hours
I	MANAGEMENT: Introduction, Meaning, nature and characteristics of Management, Management & Administration, Levels of Management, Principles and functions of Management PLANNING: Nature, importance and purpose of planning process Objectives, Types of plans (Meaning only) Decision making, Importance of Planning, steps in planning & planning premises	9
II	ORGANIZING: Nature and purpose of organization – Principles of organization Types of organization, Departmentation, Committees, Centralization Vs Decentralization of authority and responsibility, Span of control DIRECTING & CONTROLLING: Meaning and nature of directing, Leadership styles, Motivation Theories-Maslow hierarchy of needs & Herzberg's two factor theory, Communication, Meaning and importance, Coordination, Meaning and importance, Essentials of a sound control system	9
III	ENTREPRENEURSHIP: Meaning of Entrepreneur, Evolution of the Concept, Functions of an Entrepreneur, Types of Entrepreneur an emerging class. Concept of Entrepreneurship, Evolution of Entrepreneurship, Development of Entrepreneurship: stages in entrepreneurial process; Role of entrepreneurs in Economic Development; Entrepreneurship; Entrepreneurship in India; Entrepreneurship & its Barriers	9
IV	MICRO AND SMALL ENTERPRISES: Definition of micro and small enterprises, characteristics and advantages of micro and small enterprises, steps in establishing micro and small enterprises, Government of India industrial policy 2007 on micro and small enterprises, case study (Microsoft), Case study (Captain G R Gopinath), case study (N R Narayana Murthy & Infosys), Institutional support:	9



	Different Schemes; TECKSOK; KIADB; KSSIDC; KSIMC; DIC. Single Window Agency; SISI; NSIC; SIDBI; KSFC	
V	INDUSTRIAL OWNERSHIP: Definition and meaning of Partnership, Characteristics of Partnership, Kinds of Partners, Partnership Agreement or Partnership Deed, Registration of Partnership Firm, Rights, Duties and Liabilities of Partners, Advantages and Disadvantages of Partnership, Sole proprietorship, Features, Scope Advantages and Disadvantages of Sole Proprietorship.	9

Course Outcomes:

Course outcome	Descriptions
CO1	Describes the fundamentals of management, functions of a manager. Also explain the planning and decision making processes in management
CO2	Explain understanding of Entrepreneurships and Entrepreneurship development process.
CO3	Illustrate Small Scale Industries, various types of supporting agencies and financing available for an entrepreneur.
CO4	Summarize the concept of partnership and to explain about industrial ownership.

Text Books:

SI No	Text Book title	Author	Volume and Year of Edition
1	Principles of Management	P.C. Tripathi, P.N. Reddy	Tata McGraw Hill
2	Dynamics of Entrepreneurial Development & Management	Vasant Desai	Himalaya Publishing House

Reference Books:

SI No	Text Book title	Author	Volume and Year of Edition
1	Management Fundamentals Concepts, Application, Skill Development	Robers Luiser	Thomson
2	Entrepreneurship Development	S.S.Khans	S.Chand & Co
3	Entrepreneurship Development- Small Business Enterprises	Poornima.M.Char antimath	Pearson Education – 2006


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Syllabus for the Academic Year - 2022 - 2023

Department: Electronics and Telecommunication Engineering **Semester:** V

Subject Name: Management and Entrepreneurship

Subject Code: ET5TH4

L-T-P-C: 3-0-0-3

Course Objectives: Student will be able to learn:

Sl.No	Course Objectives
1	Acquire necessary knowledge and skills required for organizing and carryout entrepreneurial activities.
2	Develop the ability of analyzing and understanding business situations in which entrepreneurs act.
3	To master the knowledge necessary to plan entrepreneurial activities.
4	To make the students understand acquiring patents and copyrights

UNIT	Description	Hours
I	BASICS OF MANAGEMENT: Introduction - Meaning - nature and characteristics of Management, Scope and functional areas of management - Management as a science, art or profession Management & Administration - Roles of Management, Levels of Management, Development of Management Thought early management approaches - Modern management approaches. (Text 1: Chapters 1 and 2)	7
II	PLANNING, ORGANIZING AND STAFFING: Nature, importance and purpose of planning process Objectives - Types of plans (Meaning only) - Decision making - Importance of planning - steps in planning & planning premises - Hierarchy of plans.: Nature and purpose of organization Principles of organization Types of organization - Departmentation Committees - Centralization Vs Decentralization of authority and responsibility - Span of control - MBO and MBE (Meaning only) Nature and importance of Staffing - Process of Selection & Recruitment (in brief) (Text 1: Chapters 4, 7, 11)	9
III	DIRECTING & CONTROLLING: Meaning and nature of directing -Leadership styles, Motivation Theories, Communication - Meaning and importance - Coordination, meaning and importance and Techniques of Co - ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief). (Text 1: Chapters 9, 16 and 18)	8
IV	ENTREPRENEURSHIP: Meaning of Entrepreneur, Evolution of the Concept, Functions of an Entrepreneur, Types of Entrepreneur. Concept of Entrepreneurship - Development of Entrepreneurship, Stages in entrepreneurial process, Role of entrepreneurs in Economic Development; Entrepreneurship in India.	7



	(Text 2: Chapters 1,2,10 and 11)	
V	SMALL SCALE INDUSTRY: Definition, Characteristics, Need and rationale: Objectives, Scope, role of SSI in Economic Development. Advantages of SSI Steps to start an SSI - Government policy towards SSI. PREPARATION OF PROJECT: Meaning of Project, Project Identification, Project Selection, Project Report, Need and Significance of Report, Contents, formulation, Guidelines by Planning Commission for Project report, Network Analysis, Errors of Project Report, and Project Appraisal. (Text 2: Chapters 12 and 13)	8

Course Outcomes

Course Outcome	Descriptions
CO1	Describe the basic principles and concepts of management.
CO2	Distinguish different plans and list steps in planning.
CO3	Demonstrate the meaning, functions, types and roles of an entrepreneurial describe various institutional support.
CO4	Explain in detail about the small scale industries, preparation of project report and intellectual property rights.

Text Book:

Sl. No.	Author	Text Book title	Publisher	Volume / Issue	Year of Edition
1	P.C. Tripathi, P.N. Reddy	Principles of Management	Tata McGraw Hill	-	2007
2	S S Khanka	Entrepreneurship Development	S Chand & Co	-	2007

Reference Books:

Sl. No.	Author	Text Book title	Publisher	Volume / Issue	Year of Edition
1	Robert Lusier, ThomsonEshraghian	Management Fundamentals - Concepts, Application, Skill Development	-	-	2007