

CONSTITUTION OF INDIA & PROFESSIONAL ETHICS

Subject Code : 14CIP18/14CIP28

IA Marks : 25

Hours/Week : 02

Exam. Hours : 02

Total Hours : 25

Exam. Marks : 50

Course Objectives :

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

Module – 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. **2 Hours**

Preamble to the Indian Constitution Fundamental Rights & its limitations. **3 Hours**

Module – 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. **2 Hours**

Union Executives – President, Prime Minister Parliament Supreme Court of India. **3 Hours**

Module – 3

State Executives – Governor Chief Minister, State Legislature High Court of State. **2 Hours**

Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. **3 Hours**

Module – 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. **3 Hours**

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. **2 Hours**

Module – 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. **2 Hours**

Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. **3 Hours**

Course Outcomes :

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.

Text Books :

1. Durga Das Basu: "Introduction to the Constitution on India", (Students Edn.) Prentice –Hall EEE, 19th / 20th Edn., 2001
2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics" Thompson Asia, 2003-08-05.

Reference Books :

1. M.V.Pylee, "An Introduction to Constitution of India", Vikas Publishing, 2002.
2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004
3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.

ENVIRONMENTAL STUDIES

Subject Code : 14CIV18/14CIV28

Hours/Week : 02

Total Hours : 25

IA Marks : 25

Exam. Hours : 02

Exam. Marks : 50

Course Objectives :

1. Recognize major concepts in environmental sciences and demonstrate in-depth understanding of the environment.
2. Develop analytical skills, critical thinking, and demonstrate problem-solving skills using scientific techniques.
3. Demonstrate the knowledge and training for entering graduate or professional schools, or the job market.

Module – 1

Introduction : Environment - Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security.

2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development.

3 Hours

Module – 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.

2 Hours

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.

3 Hours

Module – 3

Environmental Pollution : Water Pollution, Noise pollution, Land Pollution, Public Health Aspects.

2 Hours

Global Environmental Issues : Population Growth, Urbanization, Land Management, Water & Waste Water Management.

3 Hours

Module – 4

Air Pollution & Automobile Pollution : Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures.

3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods.

2 Hours

Module – 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices.

2 Hours

Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.

3 Hours

Course Outcomes :

Students will be able to,

1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between predators, prey, and the plant community,
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books :

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
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", Second Edition, Cengage learning Singapore, 2005

FUNCTIONAL ENGLISH

Introduction	Importance of Languages	
Grammar	Parts of Speech, Usage of Preposition and Article, Punctuation	5 Hours
Tenses & Degrees of Comparison		3 Hours
Transformation of Sentences	Active-Passive, Affirmative-Negative, Exclamatory-Assertive, Interrogative-Assertive, Kinds of sentences	5 Hours
Direct-Indirect Speech		5 Hours
Vocabulary Usage	Homonyms, Correcting Spelling, One-word equivalents	7 Hours
Precis Writing		3 Hours
Essay/Report Writing		5 Hours
Letter Writing	Personal, Official, Applications	5 Hours
Idioms & Phrases	Meaning & Usage in sentences	5 Hours
Comprehension	Of an unseen passage	2 Hours
Elaboration	Expansion of ideas, proverbs	2 Hours
Presentation	Preparation of materials and presentation – step	3 Hours

Suggested Text Books :

- 1) SLN Sharma & K Shankaranarayana “**Basic Grammar**”, Navakarnataka Publications.
- 2) Jones “**New International Business English**”, published by Cambridge University Press.

Reference Books :

- 1) G. Sankaran, “**English Rank Scorer**”, Addone Publishing group, Thiruvananthapuram, Kerala
- 2) Wren & Martin “**English Grammar**”. John Seely, “**Oxford Guide to Speaking and Writing**”, 2000

KANNADA KALI

- Lesson 1 : Introducing each other – 1. Personal Pronouns, Possessive forms, Interrogative words.
- Lesson 2 : Introducing each other – 2. Personal Pronouns, Possessive forms, Yes/No Type Interrogation
- Lesson 3 : About Ramanaya. Possessive forms of nouns, dubitive question, Relative nouns
- Lesson 4 : Enquiring about a room for rent. Qualitative and quantitative adjectives.
- Lesson 5 : Enquiring about the college. Predicative forms, locative case.
- Lesson 6 : In a hotel. Dative case defective verbs.
- Lesson 7 : Vegetable market. Numeral, plurals.
- Lesson 8 : Planning for a picnic. Imperative, Permissive, hortative.
- Lesson 9 : Conversation between Doctor and the patient. Verb- iru, negation – illa, non – past tense.
- Lesson 10 : Doctors advise to Patient. Potential forms, no-past continuous.
- Lesson 11 : Discussing about a film. Past tense, negation.
- Lesson 12 : About Brindavan Garden. Past tense negation.
- Lesson 13 : About routine activities of a student. Verbal Participle, reflexive form, negation.
- Lesson 14 : Telephone conversation. Past and present perfect past continuous and their negation.
- Lesson 15 : About Halebid, Belur. Relative participle, negation.
- Lesson 16 : Discussing about examination and future plan. Simple conditional and negative
- Lesson 17 : Karnataka (Lesson for reading)
- Lesson 18 : Kannada Bhaashe (Lesson for reading)
- Lesson 19 : Mana taruva Sangati alla (Lesson for reading)
- Lesson 20 : bEku bEDagaLu (lesson for reading)


PRINCIPAL

ಕನ್ನಡ ಮನಸು

- 1) ಶ್ರಾವಣ (ಕವನ) ದ.ರಾ.ಬೇಂದ್ರೆ
- 2) ಡಾ. ವಿಶ್ವೇಶ್ವರಯ್ಯ ವ್ಯಕ್ತಿ ಮತ್ತು ಐತಿಹ್ಯ (ವ್ಯಕ್ತಿಚಿತ್ರ) ಎ.ಎನ್. ಮೂರ್ತಿರಾವ್
- 3) ದೋಣಿ ಹರಿಗೋಲುಗಳಲ್ಲಿ (ಪ್ರವಾಸ ಕಥನ) ಶಿವರಾಮ ಕಾರಂತ
- 4) ಅಣ್ಣಪ್ಪನ ರೇಷ್ಮೆ ಕಾಯಿಲೆ (ಪ್ರಬಂಧ) ಕುವೆಂಪು
- 5) ನಮ್ಮ ಎಮ್ಮೆಗೆ ಮಾತು ತಿಳಿಯುವುದೇ (ವಿನೋದ) ಗೋರೂರು ರಾಮಸ್ವಾಮಿ ಅಯ್ಯಂಗಾರ್
- 6) ಆನೆಹಳ್ಳದಲ್ಲಿ ಹುಡುಗಿಯರು(ವಿಜ್ಞಾನ ಲೇಖನ) ಬಿ.ಜಿ.ಎಲ್ ಸ್ವಾಮಿ
- 7) ಬೆಡ್ ನಂ. ಎಳು (ಕತೆ) ತ್ರಿವೇಣಿ
- 8) ರೊಟ್ಟಿ ಮತ್ತು ಕೋವಿ (ಕವನ) ಸು.ರಂ.ಎಕ್ಕಂಡಿ
- 9) ಗುಬ್ಬಿಚ್ಚಿ ಗೂಡು (ಅಂಕಂ ಬರಹ) ಲಂಕೇಶ್
- 10) ಚೀಂಕ್ರ ಮೇಸ್ತಿ ಮತ್ತು ಹಾವುಮೀನು (ಪರಿಸರ ಲೇಖನ) ಕೆ.ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ
- 11) ಗಾಂಧಿ (ಕತೆ) ಬೆಸಗರಹಳ್ಳಿ ರಾಮಣ್ಣ
- 12) ಬೆಳ್ಳಿಯ ಹಾಡು (ಕವನ) ಸಿದ್ಧಲಿಂಗಯ್ಯ
- 13) ಎಲ್ಲ ಹುಡುಗಿಯರ ಕನಸು (ಕವನ) ಸವಿತಾ ನಾಗಭೂಷಣ
- 14) ನೀರು (ಕತೆ) ಬಸವರಾಜ ಕುಕ್ಕರಹಳ್ಳಿ
- 15) ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿ ಸ್ವರೂಪ (ಪರಿಚಯ ಲೇಖನ) ರಹಮತ ತರೀಕೆರೆ
- 16) ತಂತ್ರಜ್ಞಾನ ಕಲಿಕೆಯಲ್ಲಿ ಭಾಷೆ (ತಂತ್ರಜ್ಞಾನ ಬರಹ) ಎಸ್.ಸುಂದರ್
- 17) ಕೊಣವೇಗೌಡ (ಕಾವ್ಯ) ಜಾನಪದ



PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K