

III/IV Semester

Constitution of	India and Profession	nal Ethics (CI	P)
Course Code	21CIP37/47	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	L:0,T:2,P:0 = 02 Hours	SEE Marks	50
Total Hours of Pedagogy	02 Hours/Week	Total Marks	100
Credits	01	Exam Hours	01 Hours

Course objectives: This course will enable the students

- 1. To know about the basic structure of Indian Constitution.
- 2. To know the Fundamental Rights (FR's), DPSP's and Fundamental Duties (FD's) of our constitution.
- 3. To know about our Union Government, political structure & codes, procedures.
- 4. To know the State Executive & Elections system of India.
- 5. To learn the Amendments and Emergency Provisions, other important provisions given by the constitution.

Teaching-Learning Process

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes and make Teaching –Learning more effective: Teachers shall adopt suitable pedagogy for effective teaching – learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools.

(i) Direct instructional method (Low/Old Technology), (ii) Flipped classrooms (High/advanced Technological tools), (iii) Blended learning (Combination of both), (iv) Enquiry and evaluation based learning, (v) Personalized learning, (vi) Problems based learning through discussion.

Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can progress the students In theoretical applied and practical skills.

Module - 1

Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly. The Preamble of Indian Constitution & Key concepts of the Preamble. Salient features of India Constitution.

Module - 2

FR's, FD's and DPSP's: Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.

Module - 3

Union Executive : Parliamentary System, Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism.

Module - 4

State Executive & Elections, Amendments and Emergency Provisions: State Executive, Election Commission, Elections & Electoral Process. Amendment to Constitution (How and Why) and Important Constitutional Amendments till today. Emergency Provisions.

Module-5

Professional Ethics: Ethics & Values. Types of Ethics. Scope & Aims of Professional & Engineering Ethics. Positive and Negative Faces of Engineering Ethics. Clash of Ethics, Conflicts of Interest. The impediments to Responsibility. Trust & Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering.

Course outcome (Course Skill Set):

At the end of the course the student will be able to:

CO1	Analyse the basic structure of Indian Constitution.
CO2	Remember their Fundamental Rights, DPSP's and Fundamental Duties (FD's) of our constitution.
CO3	know about our Union Government, political structure & codes, procedures.
CO4	Understand our State Executive & Elections system of India.
CO5	Remember the Amendments and Emergency Provisions, other important provisions given by the constitution.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50)in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together

Continuous Internal Evaluation:

Three Unit Tests each of 20 Marks (duration 01 hour)

- 1. First test at the end of 5th week of the semester
- 2. Second test at the end of the 10th week of the semester
- 3. Third test at the end of the 15^{th} week of the semester

Two assignments each of 10 Marks

- 4. First assignment at the end of 4th week of the semester
- 5. Second assignment at the end of 9th week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for **20 Marks** (duration **01 hours**)

6. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

Total CIE: IA 20*3=60, Assignment 10+10=20, Quiz 20=100/2=50

(to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE. Each method of CIE should have a different syllabus portion of the course).

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (duration 02 hours)

- 1. The question paper will have 50 questions. Each question is set for 01 mark.
- 2. Semester End Exam (SEE) Pattern will be in MCQ Model (Multiple Choice Questions) for 50 marks (60 minutes duration).

Suggested Learning Resources:

Textbook:

- 1. **"Constitution of India" (for Competitive Exams)** Published by Naidhruva Edutech Learning Solutions, Bengaluru. 2022.
- 2. "Engineering Ethics", M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Prentice –Hall, 2004.

Reference Books:

- 1. "Samvidhana Odu" for Students & Youths by Justice HN Nagamohan Dhas, Sahayana, kerekon.
- 2. "Constitution of India, Professional Ethics and Human Rights" by Shubham Singles, Charles E. Haries, and et al: published by Cengage Learning India, Latest Edition 2019.
- 3. "Introduction to the Constitution of India", (Students Edition.) by Durga Das Basu (**DD Basu**): Prentice –Hall, 2008.
- 4. "The Constitution of India" by Merunandan K B: published by Merugu Publication, Second Edition, Bengaluru.

IV Semester

UNIVERSAL HUMAN VALUES-II: UNDERSTANDING HARMONY and ETHICAL HUMAN CONDUCT Title of the subject						
Course Code	21UHV49	CIE Marks	50			
Teaching Hours/Week (L:T:P: S)	2:0:0	SEE Marks	50			
Total Hours of Pedagogy	20	Total Marks	100			
Credits	01	Exam Hours	01			

Course objectives:

This introductory course input is intended:

- 1. To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- 2. To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way.
- 3. To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behaviour and mutually enriching interaction with Nature.

This course is intended to provide a much-needed orientational input in value education to the young enquiring minds.

Teaching-Learning Process (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- 1. The methodology of this course is explorational and thus universally adaptable. It involves a systematic and rational study of the human being vis-à-vis the rest of existence.
- 2. The course is in the form of 20 lectures (discussions)
- 3. It is free from any dogma or value prescriptions.
- 4. It is a process of self-investigation and self-exploration, and not of giving sermons. Whatever is found as truth or reality is stated as a proposal and the students are facilitated to verify it in their own right, based on their Natural Acceptance and subsequent Experiential Validation
 - the whole existence is the lab and every activity is a source of reflection.
- 5. This process of self-exploration takes the form of a dialogue between the teacher and the students to begin with, and then to continue within the student in every activity, leading to continuous self-evolution.
- 6. This self-exploration also enables them to critically evaluate their pre-conditionings and present beliefs.

Module-1

Introduction to Value Education (4 hours)

Right Understanding, Relationship and Physical Facility (Holistic Development and the Role of Education)

Understanding Value Education, Self-exploration as the Process for Value Education, Continuous Happiness and Prosperity – the Basic Human Aspirations, Happiness and Prosperity – Current Scenario, Method to Fulfil the Basic Human Aspirations

Teaching-	Introduction to Value Education- Chalk and talk method, Discussion, Sharing of experiences,
Learning	Live Examples and videos
Process	

Module-2

Harmony in the Human Being (4 hours)

Understanding Human being as the Co-existence of the Self and the Body, Distinguishing between the Needs of the Self and the Body, The Body as an Instrument of the Self, Understanding Harmony in the Self, Harmony of the Self with the Body, Programme to ensure self-regulation and Health

Teaching-Learning Process

Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences, Live Examples and videos

Module-3

Harmony in the Family and Society (4 hours)

Harmony in the Family – the Basic Unit of Human Interaction, 'Trust' – the Foundational Value in Relationship, 'Respect' – as the Right Evaluation, Other Feelings, Justice in Human-to-Human Relationship, Understanding Harmony in the Society, Vision for the Universal Human Order

Teaching-Learning Process

Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences, Live Examples and videos

Module-4

Harmony in the Nature/Existence (4 hours)

Understanding Harmony in the Nature, Interconnectedness, self-regulation and Mutual Fulfilment among the Four Orders of Nature, Realizing Existence as Co-existence at All Levels, The Holistic Perception of Harmony in Existence

Teaching-Learning Process

Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences, Live Examples and videos

Module-5

Implications of the Holistic Understanding - a Look at Professional Ethics (4 hours)

Natural Acceptance of Human Values, Definitiveness of (Ethical) Human Conduct, A Basis for Humanistic Education, Humanistic Constitution and Universal Human Order, Competence in Professional Ethics Holistic Technologies, Production Systems and Management Models-Typical Case Studies, Strategies for Transition towards Value-based Life and Profession

Teaching-Learning Process

Introduction to the concepts- Chalk and talk method, Discussion, Sharing of experiences, Live Examples and videos

Course outcome (Course Skill Set)

By the end of the course, students are expected to 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, while keeping human relationships and human nature in mind.

They would have better critical ability. They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society). It is hoped that they would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.

SAMPLE TEMPLATE

Therefore, the course and further follow up is expected to positively impact common graduate attributes like:

- 1. Holistic vision of life
- 2. Socially responsible behaviour
- 3. Environmentally responsible work
- 4. Ethical human conduct
- 5. Having Competence and Capabilities for Maintaining Health and Hygiene
- 6. Appreciation and aspiration for excellence (merit) and gratitude for all

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50)in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together

Continuous Internal Evaluation:

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- 3. Third test at the end of the 15th week of the semester

Two assignments each of 10 Marks

- 4. First assignment at the end of 4th week of the semester
- 5. Second assignment at the end of 9th week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)

6. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be **scaled down to 50 marks**

(to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE. Each method of CIE should have a different syllabus portion of the course).

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (duration 01 hours)

- 1. The question paper will have 50 questions. Each question is set for 01 marks.
- 2. The students have to answer all the questions, selecting one full question from each module

Suggested Learning Resources:

Books

-READINGS:

Text Book and Teachers Manual

a. The Textbook

A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1

b. The Teacher"s Manual

Teachers" Manual for *A Foundation Course in Human Values and Professional Ethics*, R R Gaur, R Asthana, G

Reference Books

- 1. JeevanVidya: EkParichaya, A Nagaraj, JeevanVidyaPrakashan, 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 Pandit Sunderlal
- 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)
- 14. Sussan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991
- 15. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth Club of Rome's report, Universe Books.
- 16. A Nagraj, 1998, Jeevan Vidya Ek Parichay, Divya Path Sansthan, Amarkantak.
- 17. P L Dhar, RR Gaur, 1990, Science and Humanism, Commonwealth Publishers.
- 18. A N Tripathy, 2003, Human Values, New Age International Publishers.
- 19. Subhas Palekar, 2000, How to practice Natural Farming, Pracheen (Vaidik) Krishi Tantra Shodh, Amravati.
- 20. E G Seebauer & Robert L. Berry, 2000, Fundamentals of Ethics for Scientists & Engineers , Oxford University Press
- 21. M Govindrajran, S Natrajan & V.S. Senthil Kumar, Engineering Ethics (including Human Values), Eastern Economy Edition, Prentice Hall of India Ltd.
- 22. B P Banerjee, 2005, Foundations of Ethics and Management, Excel Books.
- 23. B L Bajpai, 2004, Indian Ethos and Modern Management, New Royal Book Co., Lucknow. Reprinted 2008.

Web links and Video Lectures (e-Resources):

- 1. Value Education websites, https://www.uhv.org.in/uhv-ii, http://uhv.ac.in, http://www.uptu.ac.in
- 2. Story of Stuff, http://www.storyofstuff.com
- 3. Al Gore, An Inconvenient Truth, Paramount Classics, USA
- 4. Charlie Chaplin, Modern Times, United Artists, USA
- 5. IIT Delhi, Modern Technology the Untold Story
- 6. Gandhi A., Right Here Right Now, Cyclewala Productions
- 7. https://www.youtube.com/channel/UCQxWr5QB_eZUnwxSwxXEkQw
- 8. https://fdp-si.aicte-india.org/8dayUHV download.php
- 9. https://www.youtube.com/watch?v=8ovkLRYXIjE
- 10. https://www.youtube.com/watch?v=0gdNx0X923I
- 11. https://www.youtube.com/watch?v=nGRcbRpvGoU
- 12. https://www.youtube.com/watch?v=sDxGXOgYEKM

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2017 -2018) SEMESTER - I/II

Subject Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Hours	02

Course Objectives:

- 1. To identify the major challenges in environmental issues and evaluate possible solutions.
- 2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- 3. To analyze an overall impact of specific issues and develop environmental management plan.

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 Outcome:

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 biotic and abiotic components
- 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.
- 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:

- Raman Sivakumar, "Principals of Environmental Science and Engineering",
 Second 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", Tenth Edition, Thomson Brooks /Cole, 2004
- 6. G.Tyler Miller Jr., "Environmental Science working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
- 7. Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



II Semester - AEC Course

Scientific Foundations of Health							
Course Code	21SFH19/29	CIE Marks	50				
Teaching Hours/Week (L:T:P: S)	1:0:0	SEE Marks	50				
Total Hours of Pedagogy	02 Hours/Week	Total Marks	100				
Credits	01	Exam Hours	60 Minutes / 01 Hour				

Course objectives:

The course 21**SFH29** will enable the students:

- To know about Health and wellness (and its Beliefs)
- To acquire Good Health & It's balance for positive mind-set
- To Build the healthy lifestyles for good health for their better future
- To Create of Healthy and caring relationships to meet the requirements of MNC and LPG world
- To learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future
- To Prevent and fight against harmful diseases for good health through positive mindset

Teaching-Learning Process (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- ✓ Teachers shall adopt suitable pedagogy for effective teaching learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools and software's to meet the present requirements of the Global employment market.
 - (i) Direct instructional method (Low /Old Technology),
 - (ii) Flipped classrooms (High/advanced Technological tools),
 - (iii) Blended learning (combination of both),
 - (iv) Enquiry and evaluation based learning,
 - (v) Personalized learning,
 - (vi) Problems based learning through discussion,
 - (vii) Following the method of expeditionary learning Tools and techniques,
- Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can progress the students In theoretical applied and practical skills in teaching of the concepts of Health and Wellness in general.

Module-1

Good Health and It's balance for positive mindset:

What is Health, Why Health is very important Now? – What influences your Health?, Health and Behaviour, Health beliefs and advertisements, Advantages of good health (Short term and long term benefits), Health and Society, Health and family, Health and Personality - Profession. Health and behaviour, Disparities of health in different vulnerable groups. Health and psychology, Methods to improve good psychological health. Psychological disorders (Stress and Health - Stress management), how to maintain good health, Mindfulness for Spiritual and Intellectual health, Changing health habits for good health. Health and personality.

Teaching-Learning
Process

Chalk and talk method, Power Point presentation and YouTube videos, Animation videos methods. creating real time stations in classroom discussions. Giving activities & assignments.

Module-2

Building of healthy lifestyles for better future:

Developing a healthy diet for good health, Food and health, Nutritional guidelines for good health and well beingness, Obesity and overweight disorders and its management, Eating disorders - proper exercises for its maintenance (Physical activities for health), Fitness components for health, Wellness and physical function.

Teaching-Learning Process

Chalk and talk method, PowerPoint presentation and YouTube videos, Animation videos methods. creating real time stations in classroom discussions. Giving activities &assignments.

Module-3

Creation of Healthy and caring relationships:

Building communication skills (Listening and speaking), Friends and friendship - education, the value of relationships and communication, Relationships for Better or worsening of life, understanding of basic instincts of life (more than a biology), Changing health behaviours through social engineering,

Teaching-Learning Process

Chalk and talk method, PowerPoint presentation and Animation videos methods. creating real time stations in classroom discussions. Giving activities and assignments.

Module-4

Avoiding risks and harmful habits:

Characteristics of health compromising behaviors, Recognizing and avoiding of addictions, How addiction develops and addictive behaviors, Types of addictions, influencing factors for addictions, Differences between addictive people and non addictive people and their behavior with society, Effects and health hazards from addictions Such as..., how to recovery from addictions.

Teaching-Learning Process

Chalk and talk method, PowerPoint presentation and Animation videos methods. creating real time stations in classroom discussions. Giving activities and assignments.

Module-5

<u>Preventing and fighting against diseases for good health:</u>

Process of infections and reasons for it, How to protect from different types of transmitted infections such as....,

Current trends of socio economic impact of reducing your risk of disease, How to reduce risks for good health.

Reducing risks and coping with chronic conditions, Management of chronic illness for Quality of life, Health and Wellness of youth: a challenge for the upcoming future Measuring of health and wealth status.

Teaching-Learning Process

Chalk and talk method, PowerPoint presentation and YouTube videos, Animation videos methods. creating real time stations in classroom discussions. Giving activities & assignments.

Course outcome (Course Skill Set)

At the end of the course the student will be able:

- CO 1: To understand Health and wellness (and its Beliefs)
- CO 2: To acquire Good Health & It's balance for positive mindset
- CO 3: To inculcate and develop the healthy lifestyle habits for good health.
- CO 4: To Create of Healthy and caring relationships to meet the requirements of MNC and LPG world
- CO 5: To adopt the innovative & positive methods to avoid risks from harmful habits in their campus & outside the campus.
- CO 6: To positively fight against harmful diseases for good health through positive mindset.

Assessment Details (both CIE and SEE)

methods of CIE need to be defined topic wise i.e.- Tests, MCQ, Quizzes, Seminar or micro project/Course Project, Term Paper)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 35% of maximum marks in SEE and a minimum of 40% of maximum marks in CIE. Semester End Exam (SEE) is conducted for 50 marks (hours' duration). Based on this grading will be awarded.

The student has to score a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

Three Unit Tests each of **20 Marks (duration 01 hour)**

- 1. First test at the end of 5th week of the semester
- 2. Second test at the end of the 10th week of the semester
- 3. Third test at the end of the 15th week of the semester

(All testsare similar to the SEE pattern i.e question paper pattern is MCQ)

Two assignments each of 10 Marks

- 4. First assignment at the end of 4th week of the semester
- 5. Second assignment at the end of 9th week of the semester

Report writing /Group discussion/Seminar any one of three suitably planned to attain the COs and POs for **20 Marks(duration 01 hours)**

6. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be **scaled down to 50 marks**

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for subject

SEE paper will be set for 50 questions of each of 01 marks. The pattern of the question paper is MCQ. The time allotted for SEE is **01 hours**

Suggested Learning Resources:

- 1. **Health Psychology** (Second edition) by Charles Abraham, Mark Conner, Fiona Jones and Daryl O'Connor Published by Routledge 711 Third Avenue, New York, NY 10017.
- 2. **Health Psychology A Textbook,** FOURTH EDITION by Jane Ogden McGraw Hill Education (India) Private Limited Open University Press
- 3. **HEALTH PSYCHOLOGY (Ninth Edition)** by SHELLEY E. TAYLOR University of California, Los Angeles, McGraw Hill Education (India) Private Limited Open University Press
- 4. **Scientific Foundations of Health (Health & Welness) General Books** published for university and colleges references by popular authors and published by the reputed publisher.
- 1) SWAYAM / NPTL/ MOOCS/ We blinks/ Internet sources/ YouTube videos and other materials / notes

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- ✓ Contents related activities (Activity-based discussions)
- \checkmark For active participation of students, instruct the students to prepare Flowcharts and Handouts
- \checkmark Organizing Group wise discussions and Health issues based activities
- ✓ Quizzes and Discussions
- ✓ Seminars and assignments



NSS

SWACH BHARATH ABHIYAN - 2021

October 23, 2021























Kelpataru Vidya Samsthe ® Estd. 1961

KALPATARU INSTITUTE OF TECHNOLOGY – TIPTUR (Affiliated to Visvesvaraya Technological University & approved by AICTE, New Delhii)

DEPARTMENT OF MECHANICAL ENGG. Time Table for Odd Semester -2021-22



Sem: V

Room No: ME104

TIME / DAY	09:00 to 10:00 am	10:00 to 11:00 am	11.15: to 12.15: am	12.15: to 01.15: pm	01.15: to 02:15pm	2:15 to 3:15 pm	3:15 to 4:15 pm	4:15 to 5:15 pm
MON	18ME51 SK	18ME52 TSK	18ME53 AK	18ME54 HCR		18MEL57 FM Lab Al 18MEL58 EC Lab A2		NY + ACK)
TUE	18ME52 TSK	18ME53 AK	18ME54 HCR	18CIV59 BGJ	Lunch Break		M Lab A2(B) EC Lab A3 (F	Maria Control
WED	18ME53 AK	18ME54 HCR	18ME55 EKS	18ME56 RHV		Break	18ME52 (Tutorial) TSK	18ME54 (Tutorial) HCR
THU	18ME52 TSK	18ME55 EKS	18ME51 SK	18ME56 RHV	Lunch	18MEL57 FM Lab A3(MGE 18MEL58 EC Lab A1 (HCR		GB + MG)
FRI	18ME52 TSK	18ME55 EKS	18ME51 SK	18ME56 RHV				
SAT	18ME56 RHV	18ME53 AK	18ME55 EKS	18ME51 SK		Remedial Classes		

Sl.No.	Sub.Code	Title	Staff Name		
01	18ME51	Management And Economics	Sandeep K		
02	18ME52	Design Of Machine Elements- I	Dr. T.S. Kiran		
03	18ME53	Dynamics Of Machines	Anil K		
04	18ME54	Turbo Machines	Harikesha C R		
05	18ME55	Fluid Power Engineering	Eshwaraiah K S		
06	18ME56	Operations Management	Rohith Kumar H V		
07	18MEL57	Fluid Mechanics / Machines Lab	BMV, DNY ACK, MG, MGE		
08	18MEL58	Energy Conversion Lab	HCR, ACK, BC, AK		
09 18CIV59		Environmental Studies	Jayaprakash B G (Civil dept)		

HOD



Visvesvaraya Technological University

IA / CIE Report May / June / July - 2023 Examination.

KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR

Branch : ME

Scheme: 2018

Semester: 8

SI NO.	USN	18ME81	18ME824	18MEP83	18MES84	18MEI85	STUDENT
1	1KI18ME003	35	35	35	70	30	All
2	1KI18ME010	28	30	30	69	28	Ratio
3	1KI18ME026	29	31	30	70	28	Resh
4	1KI18ME031	37	32	30	90	28	Uday
5	1 KI19ME001	29	31	30	69	28	
5	1KI19ME003	32	24	25	69	28	
7	1KI19ME004	22	24	25	65	28	1.0
8	1KI19ME006	39	34	38	98	40	chandun-4-L
9	1KI19ME007	29	30	25	90	28	U6D-
10	1KI19ME008	28	32	32	98	28	33.00
11	1KI19ME009	30	33	25	59	29	Hamba, B
12	1 KI19ME010	38	33	38	98	40	155
13	1KI19ME011	22	24	32	90	28	
14	1KI19ME012	39	35.	25 -	69	28	Joshua S
15	1KI19ME013	38	24	37	95	28 .	101
16	1KI19ME014	27	30	38	99	40	The same
17	1 KI19ME015	27	32	25	69	28	Moural M
18	1KI19ME016	24	24	25	90	28	- conseq.
19	1 KI19ME017	37	30	37	95	28	4
50	1 KI19ME018	37	33	37 -	95,	78	THE REAL PROPERTY.
21	1K(19ME019	35	32	37	68	28	Marchen
22	1KI19ME020	39	34	37	68	28	Dund 8
23	1KI19ME021	31	32	36	98	40	Perfalle LA
24	1KI19ME022	22	29	25	69	28 .	Polas
25	LK119ME023	39	35	37	98	30	-
26	1 K119ME025	33	30	38	95	40	
27	1 KI19ME026	37	36	37	95	40	Swa
28	1KI19ME027	28	31	37	58	28 4	Shapperto
29	1 KI19ME028	36	34	37	98	40	
30	1KH9ME029	39	30	37	95	30	Than HT
31	1KH9ME030	36	36	36	98	40	
32	1 KI19ME031	29	29	37	98	30	J. Sh
33	1KH9ME032	37	35	39	95	29	14 1460

SI NO.	USN	18ME81	18ME824	18MEP83	18MES84	18MEI85	STUDENT SIGNATURE
34	1KI19ME033	35	30	38	69	28	yatale
35	1KI20ME400	35	32	37	69	28	Aco
36	1KI20ME401	40	31	35	69	28	c.d.
37	1 KI20ME402	38	32	39	98	30	Durch RI
38	1KI20ME403	37	32 :	37	98	30	
39	1 KI20ME404	37	33	30	98	40	FEVINOSP
40	1KI20ME406	40	36	36	95	30	34,100
41	1KI20ME407	36	34	37	95	29	1000
42	1KI20ME408	40	35	36	98	30	NAM
43	1KI20ME409	37	33	37	98	30	The-
44	1KI20ME410	39	31	37	98	30	
45	1KI20ME411	35	32	37	95	28	
46	1KI20ME412	34	35	38	68	30	7
47	1KI20ME413	30	32	37	90	28	0 11
48	1KI20ME414	30	33	37	68	28	MAD S
49	1KI20ME415	25	28	30	68	30	, 4
50	1KI20ME416	39	36	37	98	30	Virgitheymer)
x	Faculty Signature	post	Kalo	alla	applit.	92	xxxxxxx

* - values are either optional subjects or the faculty has not yet entered the marks

TH - Theory part of CIE Marks (IPCC)

PR - Practical part of CIE Marks (IPCC)

T - Total CIE Marks (IPCC)

HOD Seal and Signature PRINCIPAL

Seal and Signature PRINCIPAL Kalpataru Institute of Technology Tiptur - 572 201



Kalpeteru Vidya Samethe & East, 1961 KALPATARU INSTITUTE OF TECHNOLOGY — TIPTUR (Affiliated to Vievesvaraya Technological University & approved by AICTE, New Delhi)

DEPARTMENT OF MECHANICAL ENGG.



Internal Marks Odd Semester 2021-2022

Semester: 5th Subject: Environmental Studit Lecturer Name: Jaya present B. Gr

SI	Treat	Manus of the students	Inte	mal Asses	sment	IA	Assi	ignment r	narks	A	Total
No	USN	Name of the students	IAI	IA2	IA3	average	:A1	A2	A3	average	marks
01	1KI18ME003	Ananthkumar C T	23	39	25	30					
02	1KI18ME010	Roshan Dev	10	30	28	96					
03	1KI18ME026	Rakshith G G	39	31	29	3/					
04	1KI18ME031	Udayraj K B	39	32	29	31		1	,		
05	1KI19ME001	Abhishek G	39	72	31	32					
06	1KI19ME003	Akarsh Naga	-	36	29	22			1		
07	1KI19ME004	Akash G R	33	36	32	33		-	1		
08	1KI19ME006	Chandan G L	30	29	33	31					
09	1KI19ME007	Darshan H S	38	31	28	32					
10	1KI19ME008	Dhanurakshith T R	33	27	-	20					
	1KI19ME009	Harsha B	24	34	28	29					
12	1KI19ME010	Jasim Mohammed M	97	3/	32	32					
13	1KI19ME011	Jeevan K J	34	30	-	21					
14	1KI19ME012	Joshua S	96	1.55	29						
15	1KI19ME013	Mahendra P	-	36	1	21				1	
16	1KI19ME014	Mallikarjun K V	30	29	-			7			_
17	1KI19ME015	Manoj M	30	34	-	20_		1			
18	1KI19ME016	Mithun Raj B L	30	34	_	21		1			
9	1K119ME017	Mohammed Maaz	1300	39	31	97		-			
20	1KI19ME018	Mohammed Musaib	20	32	27	- Augustin			-		
1/	1KI19ME019	Table to the table				20		_	1		
2	1KI19ME020	Naveen G N	20	32	20	-		-	-		
3	1K119ME021	Pramod N S	33		32	32			-		
4	1K119ME022	Rajath L A Rohan M S	31	33	31	31				1	
5	1KI19ME023	Samuel's	1	28	39	30		-		-	
6	1K119ME024	Sagar C	29	34	32	32				-	
7	1KI19ME025	Sanjay C J Shakthi Singh Chib	20	95	347	-			_	1	
8	1KI19ME026	Philippin 17	32	35	27	31					\
9	1KI19ME027	Shivakumar M R	35	28	29	31		_			1
0	1KI19ME028	Shubhank M D	33	30	30	31	-	-			1
	1KI19ME029	Surya M K	34	35	31	33					1
1	sample deligned (Uttham H T	32	34	29	32					1

SI	USN	Name of the students	Inte	emai Asse	ssment	IA	Assi	gnment r	marks		-
NO	1KI19ME030	- and or the added	IA1	IA2	IA3	average	Al	A2	A3	A	Total marks
32	The state of the s	Vikas Patil M S	33	28	29	30					-
33	1KI19ME031	Vishwanath S H	31	36	-	22					_
34	1KI19ME032	Yashwantha N	93	25	94	26					_
35	1KI19ME033	Yathish H M	-	32	30	21					
36	1KI20ME400	Arunkumar B P	35	36	30	34					_
37	1KI20ME401	Darshan C	32	31	29	31					
38	1KI20ME402	Deepak R J	7.8	35	29	31			-	-	_
39	1KI20ME403	Harsha G N	29	33	33	37		-			
40	1KI20ME404	Jeevan Kumar P	29	36	77	73		-		_	_
41	1KI20ME405	Mahamadadnan	-	70	77	27		-		-	
42	1KI20ME406	Mallikarjuna C	28	31	32	30		-			
43	1K120ME407	Monika M S	28	34	29	30			-		_
44	1KJ20ME408	Nagendra M R	94	28	28	97		-		-	
45	1KI20ME409	Prajwal P G	3.2	25	19	-	-	-	-	_	
46	1KI20ME410	Pramod C S	99	37	33	29	+	-	-		- 0
47	1KI20ME411	Sameer Pasha M Q	33	32	30	32	-	-	-		박
18	1KI20ME412	Sanjay J M	30	-	31	27	-	-	+		
19	1Kl20ME413	Sanjay N			30	20	+		+		
0	1KI20ME414	Sharath C S	34	97	37	31	-		+		
1	IKI20ME415	Spandana G		34	30	32	-	+	-		
2	1KI20ME416	Vinaykumar N M	0	27	28	29	-		-		



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

UG IA Marks Application

HELLO, 1KIME KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR

LOGOUT I (Logout.php)

Dashboard (Dashboard.php)

(A Marks Entry (IAMarksEntry.php)

INTERNAL MARKS ENTRY

Semester	*
5 Semester	
SubjectCode	·
18CIV59 - Environmental Studies	
Choose Faculty	•
1KICV0014417 - JAYAPRAKASH B G	
Q, go aheat	

IA Entry for 18CIV59 - Environmental Studies

TOTAL 51

SAVED 51

REMAINING

0

NOTE: Please Click on Save Button Before Going To Next Page of Marks Entry.

SLNo. IL	USN	Student Name	Attendence	Marks Scored	Max Marks	Status
1	1KI18ME003	ANANTHKUMAR C T	Present	30	40	Frozer
2	1KI18ME010	D ROSHAN DEV	Present	26	40	Frozer
3	1KI18ME026	RAKSHITH G G	Present	31	40	Frozer
4	1KI18ME031	UDAY RAJ K B	Present	31	40	Froze
5	1KI19ME001	ABHISHEK G	Present	32	40	Froze
6	1KI19ME003	AKARSH NAG A	Present	22	40	Froze
7	1KI19ME004	AKASH G R	Present	33	40	Froze
8	1K/19ME006	CHANDAN G L	Present	31	40	Froze

9	1KI19ME007	DARSHAN H S	Americanica	mans scure	man mares	
10			Present	32	40	
	TKI19ME008	DHANURAKSHITH T R	Present	20	40	120
11	1KI19ME009	HARSHA B	Present	29	40	1
12	1KH9ME010	JASIM MOHAMMED M	Present	32	40	
13	1KI19ME011	JEEVAN K.J	Present	21	40	H
14	1KI19ME012	JOSHUA S	Present	30	40	
15	1KI19ME013	MAHENDRA P	Present	21	40	
16	1KI19ME014	MALLIKARJUN K V	Present	20	40	
17	1K/19ME015	MANOJIM	Present	21	40	
18	1KJ19ME016	MITHUN RAJ B L	Present	21	40	
19	1KH9ME017	MOHAMMED MAAZ	Present	27	40	
20	1KH9ME018	MOHAMMED MUSAIB	Present			
21	1K(19MEQ19	NAVEEN G N	Present	20	40	•
22	1KI19ME020	PRAMOD N S	Present	19	40	1
23	1KI19ME021	RAJATH L A		32	40	
	0.000.000.000.000.000		Present	31	40	F
24	1KI19ME022	ROHAN M S	Present	30	40	F
	1K(19ME023	SAGAR C	Present	32	40	,
26	1K/19ME024	SANUAY C J	Absent	0	40	
27	1KH9ME025	SHAKTI SINGH CHIB	Present	31	40	
28	1K/19ME026	SHIVAKUMAR M.R.	Present	31	40	,
29	1KI19ME027	SHUBHANK M D	Present	31	40	F
30	1KI19ME028	SURYA M K	Present	33	40	F
31	1KI19ME029	UTTHAM H T	Present	32	40	F
32	1KI19ME030	VIKAS PATIL M S	Present	30	40	F
33	1KH9ME031	VISHWANATH S H	Present	22	40	F
34	1K(19ME032	YASHWANTHA N	Present	26	40	F
35	1K/19ME033	YATHISH H M	Present	21	40	F
36	1KI20ME400	ARUNKUMAR B P	Present	34	40	F
37	1KI20ME401	DARSHAN C	Present	31	40	F

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60	1K(20ME402	DEEPAK R J	Present	31	40	Frozen
39	1KI20ME403	HARSHA G N	Present	32	40	Frozen
40	1KI20ME404	JEEVAN KUMAR P	Present	33	40	Frozen
41	1KI20ME406	MALLIKARJUNA C	Present	30	40	Frozen
42	1K/20ME407	MONIKA M S	Present	30	40	Frozen
43	1KI20ME408	NAGENDRA M R	Present	27	40	Frozen
44	1KI20ME409	PRAJWAL P G	Present	29	40	Frozen
45	1KI20ME410	PRAMOD C S	Present	32	40	Frozen
46	1KJ20ME411	SAMEER PASHA M D	Present	32	40	Frozen
47	1KI20ME412	SANJAY J M	Present	27	40	Frozen
48	1KI20ME413	SANJAY N	Present	20	40	Frozen
49	1KØ0ME414	SHARATH C.S	Present	31	40	Frozen
50	1KI20ME415	SPANDANA G	Present	32	40	Frozen
51	1KI20ME416	VINAY KUMAR N M	Present	29	40	Frozen

Showing 1 to 51 of 51 entries

Previous

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NOTE:

► The values are already Submitted and Frozen!

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© ೨೦೧೯ ವಿಸ್ಕಾಸ ಮತ್ತು ಅಭಿವೃದ್ಧಿಕರಿಸಿದವರು ಯೋಜನಾ ನಿರ್ವಹಕ ವಿಭಾಗ (ಪಿ. ಎಮ್. ಸಿ), ಸಿ. ಎನ್. ಸಿ, ವಿ.ಶಾ,ವಿ, ಬೆಳಗಾವಿ. ಕರ್ನಾಟಕ, ಭಾರತ,



Kalpataru Vidya Sarristhe ® Estd. 1961 KALPATARU INSTITUTE OF TECHNOLOGY – TIPTUR (Affiliated to Viewesversya Technological University & approved by AICTE, New Delhi) DEPARTMENT OF MECHANICAL ENGG.



Attendance Report 2021-22 Odd

Semester: 5th

SI No	USN	STUDENT NAME	1	2	2/11	d'	16	3/	3/	O's	2	业	11%	号	13	14.	15	16	17	18	19	20	21	22	2
01	1KH8ME003	Ananthkumar C T	0	1	1	9	2	3	4	4	4	5	6	2											
02	1K118ME010	Roshan Dev	0	1	1	1	1	1	9	3	2	4	4	5											
03	1K118ME026	Rakshith G G	0	1	1	9	9	9	2	3	3	4	5	5											
04	1KI18ME031	Udayraj K B	0	0	0	ī	1	1	2	2	2	3	4	5											
05	1KI19ME001	Ahhishek G	0	1	1	2	3	4	5	5	5	6	7	8											
06	1KI19ME003	Akarsh Naga	0	1	1	2	2	2	3	3	4	5	6	6											
07	1KI19ME004	Akash G R	0	i	1	1	9	3	4	5	6	7	8	9											
08	1KI19ME006	Chandan G L	1	9	2	3	4	5	5	6	2	4	9	To											
09	1KI19ME007	Durshan H S	1	1	1	,	1	1	2	3	4	5	6	7											
10	1KH9ME008	Dhanurakshith T.R.	0	1	1	,	9	3	4	4	4	6	6	2											
11	1KI19ME009	Harsha B	0	1	1	9	2	4	4	3	6	2	8	9											Г
12	1KI19ME010	Jasim Mohammed M	1	,	9	3	3	7	i	5	6	7	7	8											Г
13	1KI19ME011	Joevan K J	1	9	9	,	2	3	ç	1	4	5	6	2											
14	1KI19ME012	Joshun S	0	1	I	1	9	7	4	4	F	1	7	8					П	П					
15	1KI19ME013	Mahendra P	0	1	ı	,	1	1	9	3	4	6	8	-2			T								
6	1KI19ME014	Mallikarjun K V	0	1	1	,	9	7	2	2	4	5	6	2		7	П			T					
7	1KH9ME015	Manoj M	1	,	9	2	9	2	2	3	4	4	5	2		T				T					
18	1KI19ME016	Mithun Raj B L	0	1	1	1	1	9	2	H	4	5	6	7		T		T							
19	1KI19ME017	Mohammed Maaz	0	1	t	1	1	V	2	7	2	4	5	6		7			T	T					
20	1KI19ME018	Mohammed Musaib	0	1	1	1	,	1	9	3	4	5	6	1			T	T		T					
21	1K119ME019	Naveen G N	1	,	1	2	1	3	4	5	6	7	8	8					T	T					
22	1KI19ME020	Pramod N S	0	1		1	2	7	4	5	6	K	7	8		T	T	T	T	T	П			П	
23	1KI19ME021	Rajath L A	0	i	9	3	4	6	1	7	8	9	9	_			T	T		T					
24	1KJ19ME022	Rohan M S	0	í	1	1	2	9	3	3	7	4	5	6	7	1	T	T	T	T					
25	1K119ME023	Sagar C	1	r	2	3	4	5	6	7	7	8	-	9		T	T	T	T	T				П	
26	1KI19ME024	Sanjay C J	0	1	1	1	1	1	2	3	4	5	6	2	T	1	1	T	T				T	П	Ĺ
27	1KI19ME025	Shakthi Singh Chib	0	0	0	0	0	0	1		3	4	5	7	1	T	1	7	T	T			T		
28	1KI19ME026	Shivakumar M R	0	1	2		4	6	5	6	7	8	9	10		1	1	1	1						
29	1KI19ME027	Shubhask M D	0	,	1	2	9	2	3	7	2	7	4	5	\forall	1	7	7	\forall	\forall					
30	1KI19ME028	Surya M K	1	i	1	1	2	7	4	4	4	6	1	1			1	1	\dagger	1					
31	1KH9ME029	Uttham H T	1	1	i	,	2	2	4	1	5	6	2	8	7			1		1					
32	1KI19ME030	Vikas Patil M S	1	,	2	2	7	3	4	4	4	4	5	2	1	1	+	+	+	\dagger	7	1			
33	1KI19ME031	Vishwanath S H	0	0	0	0	0	2	1	1	2	3	4	5	1		+	+	+	+					E
34	1KI19ME032	Yashwantha N	0	1	1		,		9	5	1	5	4	2	+	+	+	+	+	+	+	1			

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52	1KIZ0ME416	Vinaylcumar N M	0	1	1	9	3	7	5	6	7	8	9	117		\Box			
51	1KI20ME415	Spandana G	0	1	1	2	2	3	3	+	2	6	E	-	-	+	+		
0	1KI20ME414	Sharath C S	0	1	1	1	2	3	4	54	5	5	6	8	-	+	+		
19	1KI20ME413	Sanjay N	0	1	1	1	1	2	2	3	3	1	13	4	-	+		+	
8	1KI20ME412	Sanjay J M	0	1	9	3	4	5	5	6	6	6	子	3	-	++			
7	1KI20ME411	Sameer Pasha M Q	4	1	2	2	3	4	4	5	5	6	7	8	-	++	-		+
5	1KI20ME410	Pramod C S	0	1	1	2	3	4	5	6	7	8	9	16	-	++	+		+
5	1KI20ME409	Prajwal P G	0	0	0	1	2	3	4	4	5	5	5	6	-	++	+	-	-
	1K120ME408	Nagendra M R	0	1	2	3	4	5	6	7	8	9	10	n	-	++	+	+	-
	1K120ME407	Monika M S	0	1	1	2	3	4	5	6	7	8	9	10	-	+	+	-	-
	1KI20ME406	Mallikarjuna C	0	ì	2	3	4	5	6	7	2	8	9	to	-	-		+-	-
	1K120ME405	Mahamadadnan	0	1	0	0	0	d.	D	3	4	5	6	7	-	\vdash	+	\vdash	+
	1KI20ME404	Jeevan Kumar P	0	1	1	1	2	3	4	5	6	F	8	9	-	-	-	+	+
8	1KI20ME403	Harsha G N	0	0	0	0	0		2	3	4	5	6	2	-	1	+	1	-
1	1KI20ME402	Deepak R J	0	+	1	-	9	3	3	4	4	5	6	7		-	+	\vdash	-
-	1KI20ME401	Durshan C	D	F	9	2	4	5	6	2	7	7	4	9		1	+	1	+
7	1KIZOME400	Arunkumar B P	0	1	1	1		2	3	4	5	6	4	5			-	11	+
5	1KH9ME033	Yathish H M	1	1	2	2	2	3	3	4	5	6	7	8	+	+	+	1	+

TABLE TO SERVICE

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KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR-572 201

(Affiliated to Visvesvarnya Technological University, Belgaum & Recognised by A.L.C.T.E, New Delhi)

Department of Civil Engineering

5th Semester First Internal Test NOV-2021

Sub: Environmental studies (18civ59)

DATE:06/12/2021 MaxMarks:40

Note: Each question carries 1 marks

Q.1 Boron, Zinc and Manganese are usually referred to as

- A- Micro materials
- B- Macro materials
- c- Soil Vitamins
- D- MBZ nutrients

Q.2 Which of the following is not the environment effect of industrialization in general?

A-Solid waste B- Water pollution C- Air pollution D- Economic growth

Q.3 The noise pollution is measured in terms of A- Decibel B- Dobson units C- Hertz D- Candela

Q.4 Which of the following are major environmental issues involved in mining?

A- Air pollution from dust B- Water pollution C- Soil degradation D- All of the above

Q.5 Incineration of Municipal waste involves

A-Oxidation B- Deduction C- Redox action D- Disintegration

Q.6 Sustainable development means

A-Meeting present needs without compromising on the future B-Progress in human well beings C-Balance between human needs and the ability of Earth to provide the resources D-All the above

Q.7 The word Tsunami is derived from two Japanese words A-Tsu(big) and nami(flow) B-Tsu(harbour) and nami(wave) C-Tsu (big wave) and nami(wave) D-None of the above

Q.8 The most important remedy to avoid negative impact due to industrialization is

A-Industry should be closed B-Don't allow new industrial units C-Industry should treat all the wu, generated by it before disposal D-Industries should shifted far away from human habitats

Q.9 Green house gases are A-Chloro fluro carbon B-Oxygen C-Chlorine D-Chloro benzene

Q.10 Taj Mahal at Agra may be damaged by A-Sulphur dioxide B-Chlorine C-Earth quake D-All of these

Q.11 Ozone day is observed on A-January 30 B-April 21 C-September 16 D-December 25

Q.12 Green house effect is related to A-Green trees on house B-Global warming C-Grass lands D-Greenary in country

Q.13 ELISA test is used to detect A-Malaria B-AIDS C-Cholera D-Tuberculosis

Q.14 Karnataka state "pollution control board" was established in the year A-1974 B-1982 C-D-1976 1986

Q.15 "Earth day" is observed on A-1st December B-5th June C-April 22nd D-1st January

Q.16 Environmental protection Act 1986 deals with A-Air B-Water C-Land D-All of these

Q.17 Environmental pollution is due to B-Deforestation C-Afforestation D-A andB A-Rapid urbanization

Q.18 Which of the following are natural sources of air pollution? A-Volcanic eruption B-Solar flair C-Earth quake D-All of these

Q.19 Lead poisoning may cause

A-Reduction in hemoglobin B-Kidney damage C-Mental retardation D-All of these

Q.20 Noise pollution limits at residential area is A-45 dB B-80 dB C-55 dB D-90 dB

B-Sodium isothio A-Potassium cyanate Q.21 Gas leaked in Bhopal tragedy was D-Methyl isocyanate C-Ethyl isocyanate cyanate

B-To check pollution due to A-To conserve & preserve minerals Q.22 Mining means C-To extract minerals and ores D-None mineral resources

Q 23 E.I.A can be expanded as A-Environment & Industrial ActB-Environment & Impact ActivitiesC-Environment Impact AssessmentD-Environmentally Important Activity

B-Efficient equipment process A-Resource conservation Q.24 E.I.A is related to D-All of the above C- Waste minimization

Q.25 in order to protect the health of people living along the adjoining areas of roads, one should B-Not allow diesel driven vehicles A-Plant trees alongside of the roads D-None of the above C-Shift them (people) to other places

C-Nilgiri B-Agastyamala Q.26 First Biosphere reserve in India A-Chinnar D+ Eravikulam

Q.27 The pollution caused by transportation/vehicular activities depends on A-Type of the vehicle* engine B-Age of the vehicle C-Traffic congestion D-All of the above

Q.28 Sustainable development will not aim at A-Social economic development which optimizes the economic and societal benefits available in the present, without spoiling the likely potential for similar benefits in the future B-Reasonable and equitably distributed level of economic well being that can be perpetuated continually C-Development that meets the needs of the present without compromising the ability of future generations tomeet their own needs

D-Maximizing the present day benefits through increased resource consumption

- Q.29 Which of the following is a key element of EIA? A-Scoping B-Screening C-Identifying and evaluating alternatives D-All the above
- Q.30 Extraphication is A-An improved quality of water in lakes B-A process in carbon cycle C-The result to accumulation of plant nutrient in water bodies D-A water purification technique
- Q.31 Major purpose of most of the dams around the world is A-Power generation B-Drinking water supply C-Flood control D-Irrigation
- Q.32 Which of the following is the most environmental friendly agriculture practice? A-Using chemical fertilities B-Using insecticides C-Organic farming D-None of the above
- Q.33 The adverse effect of modern agriculture is A-Water pollution B-Soil pollution C-Water logging D-All the above
- Q.34 Herpetology is a branch of Science which deals with A-Reptiles B-Aves C-Fishes D- Mammals
- Q.35 Sail erosion surface soil which contains
- A-Organic matter B-Plant nutrients C-Both a and b D-None
- Q.36 Water logging is a phenomenon in which A-Crop patterns are rotated B-Soil root zone becomes saturated due to over irrigation C-Erosion of soil occurs D-None of the above
- Q.37 The impact of construction of dams
 A-Submerges forest B-Loss of wild life habitat C-Damages downstream ecosystem
 D-All of the above
- Q.38 Which of the following statement is false
- A-Soil erosion effects the productivity of agriculture fields
- B-It takes 300 years for one inch of agriculture top soil to form
- C-The amount of erosion depends on soil type, slope, drainage pattern and crop management practices D-Soil erosion helps to retain water and nutrients in the root zone
- Q.35. I aren of the following statement is false
- A-Surface runoff carry pesticides into streams
- B-Water percolating downward through agriculture lands carries with it dissolved chemicals
- C-Present agricultural practice does not contaminate water
- D-None of the above
- Q.40 termers have a tendency to
- A-Use optimum quantity of water
- B-To conserve water
- C-To over irrigate their crops
- D-All of the above



KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR-572 201

(Affiliated to Visvesvaraya Technological University, Belgaum & Recognised by A.I.C.T.E, New Delhi) Department of Civil Engineering

5º Semester Phys Internal Test NOV-2021

Sub: Environmental studies (18CIV59) Second

DATE:03/01/2022 MaxMarks:40

	Note: Each question carries I marks
	Q.1 Major causes of deforestation are
	A-Shifting cultivation B-Fuel requirements C-Raw materials for industries D-Ali of these
	Q.2 Blue baby syndrome (methacmoglobinemia) is caused by the Contamination of water due to A-Phosphates B-Sulphur C-Americ D-Nitrates
	Q.3 India has the largest share of which of the following? A-Manganese B-Mica C-Copper D-Diamond
	Q.4 Out of the following nutrients in fertilizer, which one causes minimum waterpollution? A-Nitrogen B-Phosphorus C-Potassium D-Organic matter
	Q.5 What is the minimum allowable concentration of fluorides in drinking water? A-1.0 milligrams per liter B-1.25 milligram per liter C-1.50 milligrams per liter D-1.75 milligrams per liter
	Q.6 Conservation of aramonium to NO3 by chemical oxidation is termed as A-Mineralization B-Leaching C-Nitrification D-Denitrification
•	Q.7 Sulphur occurs in roll and rocks in the form of
	Q.8 Conversion of nitrates into gases of nitrogen is called A-Nitrification B-Nitrogen fixing C-Reduction D-Denitrification
	Q.9 Forest rich area in Kamataka is found in A-Western ghats B-Bandipur C-Nagarhole D-Mangalore
	Q.10 Expand GIS A-Geographical Information Source C-Geographical Information System D-Graphical Information system
	Q.11 Important factor that causes water borne diseases is A-Using contaminated sewage for irrigation B-Leaching of untreated Fecal and urinary discharges into water bodies. C-Discharge of Industrial waste water. D-By eating contaminated food.

A-Provide of	tremely important beca lean water and clean hectic urban life D-A	air B-Provide	: habitat for wild life	C-Recreation
Q.13 Which of the A-Precipitat	following is not a part tion B-Infiltratio	of the hydrological eye n C-Transpiration	D-Perspiration	
Q.14 Which of the A-CNG	following is considere B-Kerosene C-C	ed as an alternate fuel nai D-Petrol	?	
	y kind of electrical and Domestic waste		lled te (d) e-waste	
 Father of green M.S. Swaminsch 	revolution in India san b) Harikris	hna jain c) '	Vandana shiva	d) Dr.B.P.Pal
.17da a) 20th Nov	b) 25th Nov	national day for the el c) 27th Nov	imination of violence d) 30th Nov	against Women
a) By increasing ilb) By increasing or		ess, cardiovascular dis h as asthma and allerg	ease and kidney disea	isc
a) 4.5 b) 5.6				
20 Tsunami is a) Volcenic and d) None of the at		ake in ocean crust	c) Earthquake on	land mass
21. World health of a) March-7	day is celebrated on b) func-7	every year c) May-7	d) April-7	
 a) It gives a proposition b) It teaches them 	value based education or direction to our your the distinction between to be peace-loving, go	h, It includes a positive right and wrong		
b) Cough for mo-	AIDS includes or more than one mont re than one month and need count of blood pta	TB attack		

24. Which instrume a) Mist Collector	nt is fitted in the exhi b) Biofilters	o) Air Filter	e to reduce the air d) Fuel Max	Pollution and Thermo rea	ictor
25 Which oil can a) Castor oil	be used as a substitut b) Jatropha oil	e for diesel? c) Cotton	seed oil	d) Flax seed	oil
26. The major comp a) Carbohydrates	oonent of food is b) Protein	c) Lipids	d) Al	I the above	
27. World food day a) 10 ^a October	is celebrated on b) 12* Oc	tober c) 14 ^s October	d) 16	* October
	spiratory Syndrome espiratory Symptoms				
29. Tuberculosis is b) Mycobacterium b) Cynobacterium c) Cynobacterium d) Mycobacterium	tuberculosis tuberculosis tuberosis				
(b) People move fr (c) People move f	neans rom rural to cities to rom cities roral to get rom rural to cities for rom cities rural due l	clean environment availability			
31, One billion_ which are tempora		id live in inadequate	nousing, mostly in	slum areas, the	majority of
a) Rural people	b) Urban	people c) Village people	d) T	own people
32. Changes in our pattern of our bent	r environment induce	ed byin nearly	y every sphere of	life had an Infl	uence on the
a)Human activities		d activities c) Natural activities	d) Natura	disasters
33, Public health	depends on sufficien	nt amounts of good o	uality safe	drinking	ind adequate
a) Fond, Water ar c) Shelter, fixed as	nd Shelter ed water (c	(b) Water, food and s l) Water, shelter and f	helter		
		deraies of malaria and diseases (c) Soil		(d) Sun bu	rns



KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR-572 201

(Affiliated to Visvesvaraya Technological University, Belgaum & Recognised by A.L.C.T.E, New Delhi)

Department of Civil Engineering

5" Semester Third Internal Test Jan-2022

Sub: Environmental studies (18CIV59)

DATE:25/1/2022

Note : Each	question car	ries 1 marks			MaxMarks:40
a) Carbon d b) Sulphur o c) Sulphur o	ioxide and car dioxide and ca	bon monoxide rbon dioxide trogen dioxide	in contribut	ors to acid rain?	
Q.2 Which page 2 (2) Mawsyni		receives the hig Cherrapunji	hest annual c) Siju	rainfall? d) Phyllut	
Q. 3 Who d a) George B b) James T. c) Robert A d) Charles I	Brown Stewart ngus Smith	phenomenon of	acid rain?		
Q.4 Which a) Organic of b) Black can c) Brown ca d) All of the	carbon rbon urbon	ng gases is respo	onsible for t	he yellowing of the	Taj Mahal?
O.5 What i	s the pH requ	ired for the surv	ival of agua	tic animals and plan	nts?
a) 7	b) 7.5	c) 6.5	d) 4.8	10000000000000000000000000000000000000	
Q.6 The flu	oride concent	ration for preven	ntion of den	ital caries is	
a) Img/I	b) 2mg/l	c) 3mg/l	d) 4mg/	1	
Q.7 In which		e fluoride conter b) Fluorida		s raised? c) Defluoridation	d) Flocculation
a) Sodium fb) Sodium sc) Hydroflu		ng is not used as	a fluoride	compound?	

Q.9 Which of the following	g is the nure compound?
	b) Sodium silico fluoride
	d) Sodium fluro carbonate
O.10 As far as safer handli	ng is considered, which of the following is used for fluoridation?
a) Sodium fluoride	b) Sodium silico fluoride
c) Hydrofluosilicic acid	d) Sodium fluro carbonate
O 11 What hannens when y	water contains 8-20 ppm of fluoride concentration?
a) Blue baby disease	b) Crippling fluorosis
c) Dental fluorosis	d) Mottling of teeth
Q.12 Which of the following	ng is an example of climate?
C a)An intense thunderst	orm in Houston
	Boston in the fall E d) A foggy day in San Francisco
	70 78-201 T
Q.13 How are warming oc	ean temperatures impacting whales, fish, & other marine mammals?
C a) They aren't as hung	ry because it's so hot b) Warmer water makes them sleepy
F . They aren't as hung	ry occause it s so not = by warner water makes them sleepy
c) Their migratory pati	terns are changing d) Summer seems longer so fish are schooling les
Q.14 The order of the atmo	ospheric layers, starting from closest to the surface to the top of the atmosphere
is	
그렇게 되었다면서 그리지 아이를 하게 되면 되면 되면 되고 있고 있다면 되었다.	ere, Thermosphere, Stratosphere
	ere, Mesosphere, Thermosphere
	here, Troposphere, Stratosphere
(a) Froposphere, Mesosph	ere, Stratosphere, Thermosphere
O.15 How much would the	e sea level rise if all of the Arctic sea ice melted?
(a) 0 m (b) 5 m	(c) 10 m (d) 50 m
Q.16 When did the Earth for	orm?
(a) 10 billion years ago	(b) 4.6 billion years ago
(c) 446 million years ago	(d) 6,000 years ago
Q.17 What place experience	ces the greatest seasonal variability in temperature?
(a) The North Atlantic Oc	ean (b) Central Canada
(c) Costa Rica, Central An	nerica (d) Mumbai, India.
Q.18 Cloud burst phenome	non is associated with which type of precipitation?
a. Convection	b. Orographic
c. Stratiform	d. All of the above
O.19 The ocean thermal ener	ray conversion(OTEC) is uses

a) Energy dif c) Temperati	re differe	nce d) Kinetic di	fference	e		
Q.20 OTEC	is develop	sed in					
Q.20 OTEC a) 1880		b) 1926	c) 18	390	d) 1930		
Q.21 The by	-product o	of the ocean	thermal en	ergy con	version is		
a) Hot water		b) Cold w	ater	c) Cl	hemicals	d) Gases	
Q.22 Closed	cycle sys	tems use th	e fluid havis	ng			
a) High boili	ng points	b	Low boilir	ng points	5		
a) High boilic) High visco	sity	d) low viscos	sity	20		
O 23 Warm	eurface se	u water ic n	umpad thro	unh n		to vaporise the fluid.	
						_ to vaporise the maid.	
a) Heat exchc) Evaporato	anger	d	Condenses				
Q.24 The he	at exchan	ger	the v	apour in	to a liquid	which is recycled.	
a) Condenses		b) Heats	c) C	ools	d) Evap	oorates	
Q.25 Open c	ycle OTE	Cuses	surfac	ce water	directly to	make electricity.	
a) Hot	b) Wa	rm c) Cool	d) Ic	y		
Q.26 The sto	am leave	s the				AAGSQIGTHII'	
a) Salts	b) Alu	minium	c) Co	opper		d) Silver	
Q.27 The op	en cycle s	vstem prod	uces		water.		
a) Desalinate	d	ь) Impure				
a) Desalinate c) Contamina	ated	d) Chlorinate	ed			
O 28 In	770	athod the co	n motor anti-	are a time	uum ahami	ber and flash evaporated.	
a) Closed cy			a water enti	cis a vac	uum chami	ber and nasn evaporated.	
b) Open cycl	-						
c) Hybrid O'l	CONTRACTOR OF THE PARTY OF THE						
d) Neither cl		pen system	E				
O 20 Dames	diam'r a		100000		*******		
Q.29 Deper a) Closed cy					tecumque ş ybrid	generate power from hydro elec	ctric turbine
a) Closed Cyl	cie	b) Open o	ycie	c) H	yona	d) Steam lift pump	
Q.30 W hen	was the te	rm 'Sustain	able Develo	opment'	came into	existence?	
a)1987	b)198	0 0	1978	d)19	992		
1722						condition for achieving	
A Social dev		- and the second	- Prem adm	The same	y	same to assisting	
B Economica		ment					
C Sustainabl							
D Ecological							

A Air emission B Material consumption C Solid waste generation D Acid mine drainage Q.33 Underground and open caste is the methods of: A Agriculture B Mining C Housing D Transportation O.34 Electronic waste is the adverse effect of: A Industry B Agriculture C Housing D Mining Q.35Extraction of mineral and metal form the earth is: A Agriculture B Transportation C Mining D Sustainable development Q.36 Sustainable development will not aim at: A Social economic development which optimise the economic and societal benefits available in the present, without spoiling the likely potential for similar benefits in the future B Reasonable and equitable distributed level of economic well being that can be perpetuated continually C Development that meets the need of the present without compromising the ability of future generation meet their own needs D Maximising the present day benefits through increased resource consumption Q.37 Stockholm Convention on Persistent Organic Pollutants is an international environmental treaty, signed in 2001 and effective from: A2004 B 2005 C 2009 D 2010 Q.38 Which of the following is not a Biomedical waste? a) Animal waste b) Microbiological waste c) Chemical waste d) Domestic waste Q.39 Which of the following is categorized as an incineration waste? a) Incineration ash b) Animal waste c) Solid waste d) Cytotoxic drugs Q.40 Which of the following requires special treatment of bacteria? a) Packaging of waste b) Labelling of waste c) Transport of waste d) Degradation of waste



KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR

Department of Mechanical Engineering CALENDAR OF EVENTS FOR 3rd, 5th&7th Semester ODD SEMESTERS 2021-22



Week No.	Month	Mon	Tue	Wed	Thu	Fri	Sat	No. of Working days	EVENTS
01						1		01	91" Oct 2021 Commencement of Odd Semester for 5th and 7th Sem B E , 02td Oct 2021, Gandhi Jayanthi
02	227	4	5	16	7	. 8	9	05	06th Oct 2021 Mahalaya Amavasya
03	Oct	11	12	13	14	45	16	04	14th Oct 2021 Ayudha Pooja 15th Oct 2021 Vijaya dashmi
04	18		19	50	21	22	23	04	18th Oct 2020 Commencement of 3th Semester B E 19th Oct 2021 Eid Milad 20th Oct 2021 Valamiki Jayanthi
05		25	26	27	28	29	30	06	
06			2		4	3	6	03	01* Nov 2021 Kannada Rajoyotsava 03** Nov 2021 Deepavali Amavasaya@5** Nov2021 Deepava
07	Nov	8	9	10	-11	12	13	06	
08	100000	15	16	17	18	19	20	06	22 ^{nt} Nov 2021 Kanaka dasa Jayunthi
09		22	23	24	25	26	27	05	23rd to 25th Nov 2021 Test-1 for 5th and 7th Sem B E
10	29		30					02	3,000
11				1	2	3	4	04	02 nd to 04 th Dec 2021 Test-1 for 3 rd Sem B E.
12		6	7	8	9	10	11	06	THE PERSON NAMED IN COLUMN 1 OF THE PERSON NAMED IN COLUMN 1 O
13	Dec	13	14	15	16	17	18	06	
14		20	21	22	23	.24	28	05	25th Dec 2021 Christmas
15		27	28	29	30	31		0.5	27th to 29th Dec 2021 Test-2 for 5th and 67th Sem B E
16							1	01	
17		3	4	5	6	7.	8	96	06 th to 08 th Jan 2022 Test-2 for 3 rd Sem B E
18	Tor.	10	11	12	13	14	15	03	14th Jan 2022 Sankraethi
19	Jan	17	18	19	20	21	22	06	
20		24	25	26	27	28	29	05	26 th Jan 2022 Republic Day
21	1	31		W.		Section	(49)	17.50	27th to 29th Jan 2022 Test-3 for 5th and 7th Som R E
22	200		1	2	3	4	5	01	31* Jan 2022 Last working day for Odd Sem B E
23	Feb	7	8	9	10	11	12	06	
24		14	15	16	17	18	19	06	14th to 16th Feb 2022 Test-3 for 3rd Sem B E 19th Feb 2022 Last Working day for 3rd Sem B E

No. of Working Days (NWD):- 109 days for 5th and 7th SEM. 99 days for 3rd SEM

Exams Schedule:

Important dates	3 ¹¹ Sem B E	5* Sem B E	1 98 C D.C
Last Working day	19-02-2022	31-01-2022	7 th Sem B E
Practical Examinations	21-02-2022 to 04-03-2022		31-01-2022
Theory Examinations	07-03-2022 to 25-03-2022	01-02-2022 to 10-02-2022	01-02-2022 to 10-02-2022
Commencement of EVEN SEM	THE RESERVE OF THE PARTY OF THE	11-02-2022 to 25-03-2022	11-02-2022 to 25-03-2022
Commencement of E. V.C. N. SENC	04-04-2022 .	04-04-2022	04-04-2022

I Test	II Test	III Test	9:30 am - 11: 00am	2.20
			5" & 7" Semester	2:30 pm - 4:00 pm
23/11/2021	27/12/2021	27/01/2022	18ME51: Management And Economics 18ME71: Control Engineering	18ME52: Design Of Machine Elements-1
24/11/2021	28/12/2021	28/01/2022	18ME53: Dynamics Of Machines 18ME734: Total Quality Management	18ME72: Computer Aided Design and Manufacturing 18ME54: Turbo Machines
25/11/2021	29/12/2021	29/01/2022	18ME55: Fluid Power Engineering 18CV753: Environmental Protection & Management	18ME741: Additive Manufacturing 18ME56: Operations Management
			18CIV59: Environmental Studies 3 rd Semester	
02/12/2021	06/01/2022	14/02/2022	18MAT31: Transform calculus, fourier series and Numerical techniques	18ME32: Mechanics of Materials
03/12/2021 04/12/2021	07/01/2022 08/01/2022	15/02/2022 16/02/2022	18ME33: Basic Thermodynamics 18ME35A: Metal Cutting and Forming 18KAK39: Andalitha Kannada	18ME34: Materials Science 18ME36A: Computer Aided Machine Drawing

B. E. MECHANICAL ENGINEEING Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V

	ENVIRONMENTAL ST	UDIES	
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02

Module - 1

Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. 02 Hrs

Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and

Module - 2

Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. 02 Hrs

Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.

Module - 3

Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution.02 Hrs Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.

Module - 4

Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.

Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship-NGOs. 03 Hrs

Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- . The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

SI. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textboo	ok/s		·	
1	Environmental Studies	Benny Joseph	Tata Mc Graw - Hill.	2 nd Edition, 2012

2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition: 2018
3	Environmental Studies – From Crisis to Cure	R Rajagopalan	Oxford Publisher	2005
Refer	ence Books			
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, AnoopSingh& Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition