

**METHODIST COLLEGE OF ENGINEERING AND  
TECHNOLOGY**

**DEPARTMENT OF HUMANITIES & SCIENCES**



**COURSE FILE  
OF  
ENVIRONMENTAL SCIENCES  
(MC101CE)**

**ACADEMIC YEAR: 2022-23**

**SEMESTER-I**

**SECTION: CSE (A&B)**

**COURSE INSTRUCTOR: Dr.K.SANTOSH KUMAR**



**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
(An UGC-AUTONOMOUS INSTITUTION)

Estd : 2008

Accredited by NAAC with A+ and NBA  
Affiliated to Osmania University & Approved by AICTE.



Course File Contents Verification Form

AY: 2022-23

Semester: I<sup>st</sup>

Class/Section: CSE(A+B)

Subject: Environmental Sciences

Faculty Name: Dr. K. Santosh Kumar

| S.No | Contents of Course file  | Remarks |
|------|--|---------|
| 1    | Institute V/M Statements - authorized by Principal   | Yes     |
| 2    | Department V/M/PEO Statements - authorized by HOD  | Yes     |
| 3    | POs /PSOs Statements - authorized by HOD   | Yes     |
| 4    | Course Syllabus with structure   | Yes     |
| 5    | Course Outcomes (CO)   | Yes     |
| 6    | Mapping CO with PO/PSO; Justification for Mapping of CO with PO/PSO                                    |         |
| 7    | Class Time-Table   | Yes     |
| 8    | Lesson plan (Including Taxonomy of topic, target CO & PO, Teaching methodologies & Assessment methods) | Yes     |
| 9    | Identification & addressing the Gaps within & beyond curriculum (if any)                               |         |
| 10   | Internal Question papers mapped with CO & BT   | Yes     |
| 11   | Scheme of evaluation (For Internal Exams)  | Yes     |
| 12   | Marks of Internal examinations (Question wise)   | Yes     |
| 13   | Assignment Question papers & Quiz mapped with CO and BT  | Yes     |
| 14   | Identification of Slow and Fast learners & their engagement documentation                              | Yes     |
| 15   | SEE (Semester End Examination) Question paper analysis   | Yes     |
| 16   | Result analysis after SEE results  | Yes     |
| 17   | CO Feedback form (For Indirect Rubrics)  |         |
| 18   | CO, PO/PSO attainment sheets   | Yes     |
| 19   | Observation for not attaining CO or for improvement  |         |
| 20   | Plan of action to improve CO attainment  |         |
| 21   | Attendance register  | Yes     |
| 22   | Lecture Material (Soft copy)   | Yes     |

*Santosh Kumar*  
Head of the Department  
Department of H & S  
Methodist College of Engg. & Tech.  
Abids, Hyderabad-500 003





# **METHODIST**

## **College of Engineering & Technology**

(Approved by AICTE, New-Delhi & Affiliated to Osmania University)

College Code : 1607

**Dr. Prabhu G Benakop**

B.E., M.E., Ph.D.

SM., IEEE, LMISTE, LMISOI


**Principal**

### **VISION**

To produce ethical, socially conscious and innovative professionals who would contribute to sustainable technological development of the society.

### **MISSION**

- To impart quality engineering education with latest technological developments and interdisciplinary skills to make students succeed in professional practice.
- To encourage research culture among faculty and students by establishing state of art laboratories and exposing them to modern industrial and organizational practices.
- To inculcate humane qualities like environmental consciousness, leadership, social values, professional ethics and engage in independent and lifelong learning for sustainable contribution to the society.

  
**PRINCIPAL**  
**PRINCIPAL**  
METHODIST COLLEGE OF ENGG.& TECH.  
King Koti Road, Abids, Hyderabad.

King Koti Road, Abids  
Hyderabad - 500 001. T.S. India  
Ph : 040-24753445, 24755999  
[www.methodist.edu.in](http://www.methodist.edu.in)





# METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Osmania University, - College Code - 1607

Department of Computer Science & Engineering

## VISION

To become a leader in providing Computer Science & Engineering education with emphasis on knowledge and innovation.

## MISSION

- To offer flexible programs of study with collaborations to suit industry needs.
- To provide quality education and training through novel pedagogical practices.
- To expedite high performance of excellence in teaching, research and innovations.
- To impart moral, ethical valued education with social responsibility.

*[Signature]*  
Head of the Department  
Department of CSE  
Methodist College - Engg & Tech  
Abids, Hyderabad.





# METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Osmania University, - College Code - 1607

## Department of Computer Science & Engineering

### PROGRAM OUTCOMES

- PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.
- PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in

### Program Specific Outcomes

- At the end of 4 years, Computer Science and Engineering graduates at MCET will be able to:
- PSO1:** Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments.
- PSO2:** Develop software applications with open-ended programming environments.
- PSO3:** Design and develop solutions by following standard software engineering principles and implement by using suitable programming languages and platforms

*[Signature]*  
Head of the Department  
Department of CSE  
Methodist College - Fugg & Tad  
Abids, Hyderabad.





**METHODIST**

**COLLEGE OF ENGINEERING & TECHNOLOGY**

Approved by AICTE, New Delhi & Affiliated to Osmania University

Accredited by NAAC with A+ and NBA for UG Courses



College Code:1607

**DEPARTMENT OF CIVIL ENGINEERING**

**ENVIRONMENTAL SCIENCE**

**Semester II**

| L | T | P | Credits |
|---|---|---|---------|
| 2 | 0 | 0 | Nil     |

Subject code – MCI01CE

Prerequisites:

| Course Objectives:   | Course Outcomes:  |
|--|---|
| <p>The objective of this course is to make the student</p> <ul style="list-style-type: none"> <li>➤ Describe various types of natural resources available on the earth surface.</li> <li>➤ Explain the concepts of an ecosystem and the biotic and abiotic components of various aquatic ecosystems.</li> <li>➤ Identify the values, threats of biodiversity, endangered and endemic species of India along with the conservation of biodiversity.</li> <li>➤ Explain the causes, effects and control measures of various types of environmental pollutions.</li> <li>➤ Describe the methods for water conservation, the causes, effects of global warming, climate change, acid rain, ozone layer depletion, population explosion.</li> </ul> | <p>After completion of the course, the student will be able to</p> <p>CO.1. Describe the various types of natural resources.</p> <p>CO.2 Differentiate between various biotic and abiotic components of ecosystem.</p> <p>CO.3 Examine the values, threats of biodiversity, the methods of conservation, endangered and endemic species of India.</p> <p>CO.4 Illustrate causes, effects, control measures of various types of environmental pollutions.</p> <p>CO.5 Explain the methods of water conservation, causes, effects of climate change, global warming, acid rain and ozone layer depletion, population explosion.</p> |

**Unit-I: (08 Hrs)**

**The Multidisciplinary Nature of Environmental Studies:** Definition, scope and importance, need for public awareness.

**Natural Resources:** Water Resources – Use and over utilization of surface and ground water, flood, drought, conflicts over water, Dams: Benefits and Problems. Food Resources –World Food Problems, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, Forest Resources –Use and over exploitation, deforestation & its effect on tribal people. Land

Resources –Land Degradation, environmental effect of mining, man induced landslides, soil erosion and desertification. Energy Resources –Growing energy needs, Renewable and Non-renewable energy resources.

**Unit-II: (06 Hrs)**

**Ecosystems:** Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in ecosystem, food chains, ecological pyramids, ecological succession, types of ecosystems (marine, pond, river, forest, grassland, desert)

**Unit-III: (06 Hrs)**

**Biodiversity:** Levels of Biodiversity, Bio-geographical classification of India, Value of biodiversity, Threats to biodiversity, endangered and endemic species of India, Conservation of biodiversity, global and national efforts.

**Unit-IV: (07 Hrs)**

**Environmental Pollution:** Definition, Causes, effects and control measures of air pollution, water pollution, soil pollution, noise pollution, thermal pollution, solid waste management.

**Environment Protection Act:** Air, water, forest and wildlife Acts, issues in the enforcement of environmental legislation

**Unit-V: (06 Hrs)**

**Social Issues and the Environment:** Watershed management and environmental ethics. Climate change, global warming, acid rain, ozone layer depletion.

**Environmental Disaster Management:** Types of disasters, impact of disasters on environment, infrastructure, and development. Basic principles of disaster mitigation, disaster management, and methodology. Disaster management cycle and disaster management in India.

**Field Work:**

- Visit to a local area to document environmental issues- agricultural area/ pond/lake/terrestrial ecosystem
- Visit to a local polluted area- market/slum area/Industrial area/traffic area

**Text Books:**

- T1. Deswal S. and Deswal A., A Basic Course on Environmental studies, Dhanpat Rai & Co Pvt. Ltd. 2013. (Unit 1 – 5)
- T2. Perspectives in Environmental Studies, Anubha Kaushik & C.P Kaushik, New Age International Publishers, 6<sup>th</sup> Edition 2018). (Unit 1 – 5)

**References/ Suggested Reading**

- R1. Benny Joseph, —Environmental Studies", Tata McGraw Hill (3<sup>rd</sup> Edition 2017).
- R2. Suresh K. Dhameja, Environmental Studies, S.K. Kataria & Sons, 2010.
- R3. Rajagopalan R., Environmental Studies, Second Edition, Oxford University Press, 2013.
- R4. V.K. Sharma, Disaster Management, National Centre for Disaster Management, IPE, 1999
- R5. Environmental studies by Erach Bharucha 2005, University Grants Commission, University Press.





## METHODIST

### COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad  
Estd : 2008 Address : King Koti Road, Abids, Hyderabad, Telangana, 500001 | Email : principal@methodist.edu.in

### DEPARTMENT OF CIVIL ENGINEERING

Class: B.E I Sem Course: Environmental Science Code: MC201CE AY: 2022-23

### COURSE OUTCOMES

After completing this course, the student will be able to:

| CO No. | Course Outcome  | Taxonomy Level |
|--------|---|----------------|
| CO1    | Describe the various types of natural resources   | Understanding  |
| CO2    | Differentiate between various biotic and abiotic components of ecosystem  | Understanding  |
| CO3    | Define the values, threats of biodiversity, the methods of conservation, endangered and endemic species of India  | Remembering    |
| CO4    | Illustrate causes effects, control measures of various types of environmental pollutions  | Analysing      |
| CO5    | Explain the methods of water conservation, causes, effects of climate change, global warming, acid rain and ozone layer depletion, population explosion | Understanding  |

### MAPPING OF COs WITH POs & PSOs

Correlation Level: High – 3; Medium – 2; Low – 1

| PO / CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PS01 | PSO2 | PSO3 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| CO.1    | -   | -   | -   | -   | -   | 3   | 3   | -   | -   | -    | -    | 3    | -    | -    | -    |
| CO.2    | -   | -   | -   | -   | -   | 1   | 2   | -   | -   | -    | -    | 2    | -    | -    | -    |
| CO.3    | -   | -   | -   | -   | 3   | 1   | 3   | -   | -   | -    | -    | 3    | -    | -    | -    |
| CO.4    | -   | -   | -   | -   | 3   | 3   | 3   | 3   | -   | -    | -    | 3    | -    | -    | -    |
| CO.5    | -   | -   | -   | -   | -   | -   | 3   | 2   | -   | -    | -    | 3    | -    | -    | -    |
| 201     |     |     |     |     | 3   | 2   | 3   | 2.5 |     |      |      | 3    |      |      |      |

Prepared by: Dr.K. Santosh Kumar

Signature:

Date:

HOD





**METHODIST**

**COLLEGE OF ENGINEERING & TECHNOLOGY**

(An UGC Autonomous Institution)

Approved by AICTE, New Delhi & Affiliated to Osmania University

Accredited by NBA and NAAC with A+



College Code: 1607

**DEPARTMENT OF HUMANITIES AND BASIC SCIENCES**

**Class Time - Table**

Class: I BE CSE - A      A.Y-2022 - 2023      Semester: I      W.E.F:09- 11 - 2022      LH:A-101

|     | I<br>9:30 - 10:30 | II<br>10:30 - 11:30 | III<br>11:30 - 12:30 | 12:30 - 01:15         | IV<br>01:15 - 02:15 | V<br>02:15 - 03:15 | VI<br>03:15 - 04:15 |
|-----|-------------------|---------------------|----------------------|-----------------------|---------------------|--------------------|---------------------|
| MON | PHYSICS /EEEE LAB | PHYSICS /EEEE LAB   |                      | L<br>U<br>N<br>C<br>H | ES<br>PHY           | PHY<br>M-I         | PPS<br>MENTORING    |
| TUE | EEEE              | ENGG GRAPHICS       |                      |                       |                     |                    |                     |
| WED | PHY               | M-I                 | PPS                  |                       |                     |                    |                     |
| THU | M-I               | PHY                 | EEEE                 |                       |                     |                    |                     |
| FRI | EG                | ENGG GRAPHICS       |                      | ES                    | PHYSICS /EEEE LAB   |                    |                     |
| SAT | PPS               | M-I                 | ES                   | PPS                   | EEEE                | PPS LAB            | M-I                 |
|     |                   |                     |                      | EEEE                  |                     | PPS LAB            |                     |

| Course Code | Course Name   | Name of the Faculty | Course Code | Course Name              | Name of the Faculty                    |
|-------------|---|---------------------|-------------|--------------------------|--|
| BS101HS     | M-I-Engg Mathematics-I                                | Mr.T.Joseph         | BS151HS     | Physics Lab              | Dr.A.Arun Kumar / Dr.K.Veerabhadra Rao |
| BS104HS     | A.P.-Applied Physics                                  | Dr.A.Arun Kumar     | ES151CS     | PPS Lab                  | Mr.Senthil kumar                       |
| ES101CS     | PPS-Programming for Problem Solving                   | Mr.Senthil kumar    | ES152EE     | EEEE Lab                 | Mr.G Mohan Krishna/Mr.K Pulla Reddy    |
| ES102EE     | EEEE-Elements of Electrical & Electronics Engineering | Mr.G Mohan Krishna  | ES152CE     | Engineering Graphics Lab | Mr.Mohd.Shahed Ali/Ms.Jyostna          |
| MC101CE     | E-S-Environmental Science                             | Dr.K.Santosh Kumar  |             | MENTORING                | Mr.T.Joseph /Mr.Nagaraju               |

Class Coordinator: Mr.T.Joseph

Class In - Charge

Time Table Coordinator.

Head of the Department  
Head of the Department  
Department of H & S  
Methodist College of Engg. & Tech,  
Abids, Hyderabad-500 001



College Code: 1607

**DEPARTMENT OF HUMANITIES AND BASIC SCIENCES**

Class: I BE CSE - B A.Y-2022 - 2023 Semester: I W.E, F:09-11 - 2022 : LH- A201

Class Time - Table

|     | I                  | II                   | III                  | 12:30 - 01:15        | IV                       | V             | VI |
|-----|--------------------|----------------------|----------------------|----------------------|--------------------------|---------------|----|
| MON | 9:30 - 10:30<br>ES | 10:30 - 11:30<br>PHY | 11:30 - 12:30<br>PPS | 01:15 - 02:15<br>M-I | 02:15 - 03:15<br>PPS LAB | 03:15 - 04:15 |    |
| TUE | M-I                | M-I                  | PPS                  | EEEE                 | ENGG GRAPHICS            |               |    |
| WED | EEEE               | PPS                  | PHY                  | M-I                  | ES                       | MENTORING     |    |
| THU | EG                 | ENGG GRAPHICS        |                      | PHYSCS/EEEE LAB      |                          |               |    |
| FRI | PPS                | PHY                  | M-I                  | EEEE                 | PPS LAB                  |               |    |
| SAT |                    | PHYSCS/EEEE LAB      |                      | ES                   | PHY                      | EEEE          |    |

| Course Code | Course Name                                    | Name of the Faculty  | Course Code | Course Name              | Name of the Faculty                    |
|-------------|--|----------------------|-------------|--------------------------|--|
| BS101HS     | M-I-Engg Mathematics-I                         | Mrs.G.Swapna         | BS151HS     | Physics Lab              | Dr.A.Arun Kumar / Dr.K.Veerabhadra Rao |
| BS104HS     | A.P-Applied Physics                            | Dr.K.Veerabhadra Rao | ES151CS     | PPS Lab                  | Mrs.Deepthi Jyothi                     |
| ES101CS     | PPS-Programming for Problem Solving            | Mrs.Deepthi Jyothi   | ES152EE     | EEEE Lab                 | Mr.G Mohan Krishna/Mr.J Ramesh Babu    |
| ES102EE     | EEEE-Elements of Electrical & Electronics Engg | Mr.G Mohan Krishna   | ES152CE     | Engineering Graphics Lab | Mr.Mohd.Shahed Ali/Ms.Jyostna          |
| MC101CE     | E.S-Environmental Science                      | Dr.K.Santosh Kumar   | MENTORING   |                          | Mrs.G.Swapna/Mrs.Girija/Mrs.Rekha      |

Class Coordinator: Mrs.G.Swapna

Class In - Charge

Time Table Coordinator

Head of the Department  
Department of H & B S  
Methodist College of Engg. & Tech.  
Abids, Hyderabad-500 084





**METHODIST**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
 Accredited by NAAC with A+ and NBA  
 Estd : 2008 Affiliated to Orissa University & Approved by AICTE



**DEPARTMENT OF CIVIL ENGINEERING**  
**LESSON PLAN**

**Course Name:** Environmental Sciences

**Name of the Faculty:** Dr.K.Santosh Kumar

**Course Code:** MC10ICE

**Department:** Civil Engineering

**Semester:** I

**A.Y:** 2022-23

The course plan is meant as a guideline. There may probably be changes.

| S. No. | Unit | Topic   | No. of Periods | CO's | Teaching Methodology |
|--------|------|---|----------------|------|----------------------|
| 1      | I    | <b>Introduction:</b> Course Introduction, Dissemination of CO's, PO's, PSO's and Mapping, Introduction to Engineering Sciences useful to engineering. | 1              | -    | T1, T5, T16          |
| 2      |      | <b>Environmental Studies:</b> Definition, scope and importance, need for public awareness   | 1              | CO1  | T1, T5, T16          |
| 3      |      | <b>Natural resources:</b> Water resources; use and over-utilization of surface and ground water.  | 1              | CO1  | T1, T5, T16          |
| 4      |      | <b>Natural resources:</b> Floods, drought, conflicts over water, dams: benefits and problems.   | 1              | CO1  | T1, T5, T16          |
| 5      |      | <b>Natural resources:</b> Effects of modern agriculture, fertilizer- pesticide problems, water logging and salinity.                                  | 1              | CO1  | T1, T7, T12, T16     |
| 6      |      | <b>Energy resources:</b> Growing energy needs, renewable and non-renewable energy sources.  | 1              | CO1  | T1, T5, T16          |
| 6      | II   | <b>Ecosystems:</b> Concept of an ecosystem, structure and function of an ecosystem.   | 1              | CO2  | T1, T5, T16          |

| S. No. | Unit | Topic   | No. of Periods | CO's | Teaching Methodology |
|--------|------|---|----------------|------|----------------------|
| 7      |      | <b>Ecosystems:</b> Producers, consumers and decomposers, energy flow in ecosystem, food chains.   | 1              | CO2  | T1, T5, T16          |
| 8      |      | <b>Ecosystems:</b> Ecological pyramids, aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries).                                     | 1              | CO2  | T1, T5, T16          |
| 9      |      | <b>Energy flow</b> in ecosystem, food chains, ecological pyramids.  | 1              | CO2  | T1, T5, T7, T12, T16 |
| 11     | III  | <b>Biodiversity:</b> Genetic species and ecosystem diversity, bio-geographical classification of India.   | 1              | CO3  | T1, T5, T16          |
| 12     |      | <b>Biodiversity:</b> Value of biodiversity, threats to biodiversity, endangered and endemic species of India, conservation of biodiversity.       | 1              | CO3  | T1, T5, T16          |
|        |      | <b>Environment Protection Act:</b> Air, water, forest and wildlife Acts, issues in the enforcement of environmental legislation                   | 1              | CO3  | T1, T7, T12, T16     |
| 13     | IV   | <b>Environmental Pollution:</b> Causes, effects and control measures of air pollution, water pollution, soil pollution.                           | 1              | CO4  | T1, T16, T21         |
| 14     |      | <b>Environmental Pollution:</b> Causes, effects and control measures of noise pollution and thermal pollution; Solid and liquid waste management. | 1              | CO4  | T1, T7, T12, T16     |
| 15     |      | <b>Environment Protection Act:</b> Air, water, forest and wild life Acts, enforcement of environmental legislation.                               | 1              | CO4  | T1, T7, T12, T16     |
| 16     | V    | <b>Social Issues and the Environment:</b> Water conservation, watershed management, and environmental ethics.                                     | 1              | CO5  | T1, T5, T16          |
| 17     |      | <b>Social Issues and the Environment:</b> Climate change, global warming, acid rain, ozone layer depletion.                                       | 1              | CO5  | T1, T16              |

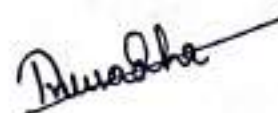


| S. No. | Unit | Topic   | No. of Periods | CO's | Teaching Methodology |
|--------|------|---|----------------|------|----------------------|
| 18     |      | <b>Environmental Disaster Management:</b> Types of disasters, impact of disasters on environment, infrastructure, and development.  | 1              | CO5  | T1, T5, T16          |
| 19     |      | <b>Environmental Disaster Management:</b> Basic principles of disaster mitigation, disaster management, and methodology. Disaster management cycle, and disaster management in India.                       | 1              | CO5  | T1, T16, T21         |
| 20     |      | <b>Disaster management cycle and disaster management in India.</b>  | 1              | CO5  | T1, T5, T7, T12, T16 |
| 21     |      | <b>Field Work:</b> Visit to a local area to document environmental issues- agricultural area/pond/lake/terrestrial ecosystem. Visit to a local polluted area- market/slum area/Industrial area/traffic area | 1              | CO5  | T1, T5, T16          |

- T1            Chalk and Talk  
T5            Assignments  
T7            Student Seminars  
T12          Flipped Class  
T16          PowerPoint Presentation  
T21          Video Lectures

Total no of Teaching techniques used: 3  
No of ICT techniques used: 3

Signature of Faculty

Head of Department

Hall Tick No:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Osmia University & Approved by AICTE



Department of Humanities & Sciences

BE I Semester I – Internal Examination Jan-2023

Sub: Environmental Sciences

Date: 11-01-2023

Branch: CSE (A&B) Time: 1h.:10m. Max Marks: 25

Note: 1. Answer all the Questions in PART-A

2. Answer Any three Questions in PART-B

| PART-A |   |       |     |               |
|--------|---|-------|-----|---------------|
| Q.No   | Questions                                   | Marks | CO  | BT            |
| 1      | What is the scope of environmental studies? | 2     | CO1 | Remembering   |
| 2      | What is soil erosion?                       | 2     | CO1 | Remembering   |
| 3      | Discuss the major uses of forests.          | 2     | CO1 | Understanding |
| 4      | Define food chain & food web.               | 2     | CO2 | Remembering   |
| 5      | Define Ecological Pyramids?                 | 2     | CO2 | Remembering   |

| PART-B |  |       |     |               |
|--------|--|-------|-----|---------------|
| Q.No   | Questions  | Marks | CO  | BT            |
| 6      | Discuss with the help of a case study, how big dams have affected forests and the tribals. | 5     | CO1 | Understanding |
| 7      | Explain the major causes and consequences of deforestation?                                | 5     | CO1 | Understanding |
| 8      | Explain the biotic and abiotic structure of an ecosystem.                                  | 5     | CO2 | Understanding |
| 9      | Define an ecosystem. Explain the energy flow in ecosystems with the help of a diagram.     | 5     | CO2 | Remembering   |



Hall Tick No:

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|



Estd : 2008

**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Affiliated to Osmanta University & Approved by AICTE



Department of Humanities & Sciences

**BE I Semester I – Internal Examination Jan-2023**

**Sub: Environmental Sciences**

**Date: 11-01-2023**

**Branch: CSE (A&B)**

**Time: 1h.:10m.**

**Max Marks: 25**

**Note:** 1. Answer all the Questions in PART-A

2. Answer Any three Questions in PART-B

| PART-A |  |       |     |               |
|--------|--|-------|-----|---------------|
| Q.No   | Questions  | Marks | CO  | BT            |
| 1      | Define environment.  | 2     | CO1 | Remembering   |
| 2      | Classify renewable and non-renewable resources? Give examples. | 2     | CO1 | Understanding |
| 3      | Define ecology and ecosystems.                                 | 2     | CO1 | Remembering   |
| 4      | Define food chain & food web.                                  | 2     | CO2 | Remembering   |
| 5      | Define Ecological Pyramids?                                    | 2     | CO2 | Remembering   |

| PART-B |  |       |     |               |
|--------|--|-------|-----|---------------|
| Q.N    | Questions  | Marks | CO  | BT            |
| 6      | Discuss with the help of a case study, how big dams have affected forests and the tribals. | 5     | CO1 | Understanding |
| 7      | Explain the major causes and consequences of deforestation?                                | 5     | CO1 | Understanding |
| 8      | Explain the biotic and abiotic structure of an ecosystem.                                  | 5     | CO2 | Understanding |
| 9      | What are the different zones in a lake ecosystems ?  | 5     | CO2 | Understanding |





Hall Tick No:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



Estd : 2008

**METHODIST**

COLLEGE OF ENGINEERING &amp; TECHNOLOGY

Accredited by NAAC with A+ and NBA

Affiliated to Orissa University &amp; Approved by AICTE

Department of Humanities & SciencesBE I Semester 2<sup>nd</sup> – Internal Examination Feb/March -2023

Sub: Environmental Sciences

Date: 28-02-2023

Branch: CSE/AIDS

Time: 1h.:10m.

Max Marks: 25

Note: 1. Answer all the Questions in PART-A

2. Answer Any three Questions in PART-B

| PART-A |  |       |     |               |
|--------|--|-------|-----|---------------|
| Q.No   | Questions  | Marks | CO  | BT            |
| 1      | Distinguish between species and genetic diversity?                           | 2     | CO3 | Remembering   |
| 2      | Define noise pollution. Name any two controlling aspects of noise pollution? | 2     | CO4 | Remembering   |
| 3      | What are the causes and effects of air pollution?.                           | 2     | CO4 | Remembering   |
| 4      | Explain the possible consequences of greenhouse effects.                     | 2     | CO5 | Understanding |
| 5      | Write short notes on Environmental Ethics?                                   | 2     | CO5 | Understanding |

| PART-B |  |       |     |               |
|--------|--|-------|-----|---------------|
| Q.No   | Questions  | Marks | CO  | BT            |
| 6      | Enumerate biogeographical classification of India?   | 5     | CO3 | Remembering   |
| 7      | Explain solid waste management hierarchy and briefly discuss various solid waste disposal methods? | 5     | CO4 | Understanding |
| 8      | What is water conservation and watershed management?   | 5     | CO5 | Understanding |
| 9      | Write a short notes on: a) Ozone layer depletion<br>b) Mention the causes of deforestation.        | 5     | CO5 | Understanding |

Hall Tick No:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



Estd : 2008

**METHODIST**

COLLEGE OF ENGINEERING &amp; TECHNOLOGY

Accredited by NAAC with A+ and NBA

Affiliated to Orissa University &amp; Approved by AICTE

Department of Humanities & SciencesBE I Semester 2<sup>nd</sup> – Internal Examination Feb/March -2023

Sub: Environmental Sciences

Date: 28-02-2023

Branch: CSE/AIDS

Time: 1h.:10m.

Max Marks: 25

Note: 1. Answer all the Questions in PART-A

2. Answer Any three Questions in PART-B

| PART-A |   |       |     |               |
|--------|---|-------|-----|---------------|
| Q.No   | Questions   | Marks | CO  | BT            |
| 1      | Discuss the importance of biodiversity for the existence of humans?                     | 2     | CO3 | Understanding |
| 2      | Write the salient features of the water (prevention and control of pollution) Act 1974. | 2     | CO4 | Understanding |
| 3      | What are the causes and effects of air pollution?                                       | 2     | CO4 | Remembering   |
| 4      | Explain the possible consequences of greenhouse effects.                                | 2     | CO5 | Understanding |
| 5      | Write short notes on Environmental Education?   | 2     | CO5 | Understanding |

| PART-B |  |       |     |               |
|--------|--|-------|-----|---------------|
| Q.No   | Questions  | Marks | CO  | BT            |
| 6      | Discuss value of biodiversity and threats to biodiversity?   | 5     | CO3 | Remembering   |
| 7      | Define thermal pollution. Discuss the causes, effects and control measures for the thermal pollution.                        | 5     | CO4 | Remembering   |
| 8      | What is water conservation and watershed management?   | 5     | CO5 | Understanding |
| 9      | Write a short notes on: a) Role of IT in environment b) Only if we take care of nature, nature will take care of us explain? | 5     | CO5 | Understanding |





Hall Tick No:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

|    |   |     |     |             |
|----|---|-----|-----|-------------|
|    | a) Chemicals    b) Phenols    c) Acids    d) All of these   | ( ) |     | Remembering |
| 5  | Dissolved oxygen in water comes from<br>a) Photosynthesis of aquatic plants    b) Atmosphere<br>c) None of these    d) Both of these                                      | ( ) | CO4 | Remembering |
| 6  | Itai-itai disease in Japan was caused by consumption of rice contaminated with<br>a) Mercury    b) Iron    c) Cadmium    d) Zinc  | ( ) | CO4 | Remembering |
| 7  | Thermal pollution can be controlled by<br>a) Cooling ponds    b) Spray ponds    c) Cooling towers    d) All of these  | ( ) | CO4 | Remembering |
| 8  | Oil in water affects fish by affecting<br>a) Gills    b) Scales    c) Eyes    d) None of these  | ( ) | CO4 | Remembering |
| 9  | Bhopal gas tragedy occurred due to leakage of<br>a) MIC    b) DDT    c) SO <sub>2</sub> d) Dioxins  | ( ) | CO4 | Remembering |
| 10 | Which of the following enhance the frequency of earthquakes?<br>a) Big Dams    b) Underground nuclear testing<br>c) Deep well disposal of liquid waste    d) All of these | ( ) | CO4 | Remembering |

## UNIT-V

| Q.No | Ans  | Ans | CO  | BT          |
|------|--|-----|-----|-------------|
| 1    | Which one of the following is not associated with reducing the run-off loss of water<br>a) Contour cultivation    b) chemical wetting<br>c) Surface crop residues    d) Fallow Soil                    | ( ) | CO5 | Remembering |
| 2    | Rainwater harvesting has the following advantages<br>a) Avoids flooding of roads    b) Recharges ground water<br>c) Reduce run-off loss    d) All the above  | ( ) | CO5 | Remembering |
| 3    | Which of the following gases has maximum contribution to enhanced greenhouse effects?<br>a) CFC's    b) CH <sub>4</sub> c) CO <sub>2</sub> d) N <sub>2</sub> O   | ( ) | CO5 | Remembering |
| 4    | Cattle, sheep and termites are responsible for the release of the following greenhouse gas<br>a) Methane    b) Carbon dioxide    c) Nitrous oxide    d) All of these                                   | ( ) | CO5 | Remembering |
| 5    | The most important agents for ozone depletion are<br>a) Methane    b) CFCs    c) Nuclear fallout    d) Nitrous oxide   | ( ) | CO5 | Remembering |
| 6    | Maximum depletion of ozone occurs on<br>a) Equator    b) North pole    c) South pole    d) Tropics   | ( ) | CO5 | Remembering |
| 7    | Chernobyl disaster is associated with<br>a) Nuclear accident    b) Landslide    c) Earthquake    d) Acid rain  | ( ) | CO5 | Remembering |
| 8    | Which article in constitution recognizes environmental protection as one of the fundamental duties of every citizen of India?<br>a) Article 42    b) Article 48A    c) Article 51A(g)    d) Article 52 | ( ) | CO5 | Remembering |
| 9    | As per the forest act, cultivation of which of the following is a non-forest activity<br>a) Tea    b) Rubber    c) Mulberry    d) All of these   | ( ) | CO5 | Remembering |
| 10   | Chemicals or agents that cause cancer are called<br>a) Carcinogenic    b) Mutagenic    c) Teratogenic    d) Neurotoxins  | ( ) | CO5 | Remembering |





Estd : 2008

**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Affiliated to Osmania University & Approved by AICTE



Branch: CSE, Sec-A&B

Subject: Environmental Sciences (Set-1) Max Marks-25

Date of Examination: 11-01-2023

---

**SCHEME OF EVALUATION (Internal-1)**

**Section-A**

**5 X 2 = 10**

- 1) Scope-1 mark; Definition - 1 mark
- 2) Soil erosion – 2 mark
- 3) Major uses of forest- 2 mark
- 4) Food Chain-1 mark, Food Web-1 mark.
- 5) Ecological Pyramid – 2 marks

**Section-B**

**3 X 5 = 15**

- 6) Dams Advantages- 3 marks, Dams Disadvantages- 3 marks.
- 7) Deforestation causes -3 marks, Consequences-2 marks.
- 8) Biotic structure – 3 marks; Abiotic Structure – 2 marks
- 9) Ecosystem - 2marks; energy flow in an ecosystem with diagram – 3 marks



**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Osmania University & Approved by AICTE



Branch: CSE, Sec-A&B      Subject: Environmental Sciences (Set-1)      Max Marks-25  
Date of Examination: 28-2-2023

---

**SCHEME OF EVALUATION (Internal-2)**

**Section-A**

**5 X 2 = 10**

- 1) Species Diversity-1 mark; Ecosystem Diversity - 1 mark
- 2) Noise Pollution-1 mark; Control Measures - 1 mark
- 3) Air Pollution causes-1 mark; effects - 1 mark
- 4) Greenhouse gases consequences – 2 marks
- 5) Environmental Ethics – 2 marks

**Section-B**

**3 X 5 = 15**

- 6) Biogeographical Classification - 5 marks.
- 7) Solid waste management -3 marks, Disposal -2 marks.
- 8) Water conservation – 3 marks; watershed management – 2 marks
- 9) Ozone layer depletion - 2marks; Causes of deforestation – 3 marks





# METHODIST

COLLEGE OF ENGINEERING & TECHNOLOGY

Accredited by NAAC with A+ and NBA

Estd : 2008 Affiliated to Osmania University & Approved by AICTE



| S No | Hall Ticket No | Student Name                | Marks           | 2022-23 |      |      |      |      |      |               |      |      |  |  |  | Total |    |
|------|----------------|-----------------------------|-----------------|---------|------|------|------|------|------|---------------|------|------|--|--|--|-------|----|
|      |                |                             |                 | I - Mid |      |      |      |      |      | Class : CSE-A |      |      |  |  |  |       |    |
|      |                | Dr.K.Santosh Kumar          | Attempted       | 60      | 55   | 62   | 52   | 46   | 60   | 61            | 23   | 24   |  |  |  |       |    |
|      |                |                             | Above base mark | 60      | 53   | 62   | 51   | 45   | 42   | 42            | 13   | 11   |  |  |  |       |    |
|      |                |                             | Average         | 1.77    | 1.75 | 1.76 | 1.79 | 1.74 | 3.07 | 2.98          | 3.04 | 2.38 |  |  |  |       |    |
|      |                |                             | Student Name    | 1       | 2    | 3    | 4    | 5    | 6    | 7             | 8    | 9    |  |  |  |       |    |
|      |                |                             | Marks           | 2       | 2    | 2    | 2    | 2    | 5    | 5             | 5    | 5    |  |  |  |       |    |
| 1    | 160722733001   | BOYAPALLY J RAHUL GOUD      |                 | 2       | 2    | 2    | 2    | 2    | 3    | 4             |      |      |  |  |  |       | 18 |
| 2    | 160722733002   | S M HASANUDDIN              |                 | 2       | 2    | 2    | 2    | 2    | 4    | 4             | 5    |      |  |  |  |       | 23 |
| 3    | 160722733003   | MUKUNDRAJ PAWAR             |                 | 2       | 2    | 2    | 2    | 2    | 5    | 3             |      |      |  |  |  |       | 23 |
| 4    | 160722733004   | MOHAMMED SHAFI OMAIR        |                 | 1       | 1    | 1    |      | 1    | 2    | 1             |      |      |  |  |  |       | 7  |
| 5    | 160722733005   | MIRUPATHI SATHVIK REDDY     |                 | 2       | 2    | 2    | 2    | 1    | 3    | 3             |      | 1    |  |  |  |       | 16 |
| 6    | 160722733006   | MUKKA NITHIN                |                 | 2       | 2    | 2    | 1    | 0    | 3    | 4             |      |      |  |  |  |       | 14 |
| 7    | 160722733007   | MALLIKANTI BHARATH KUMAR    |                 | 2       | 2    | 2    | 2    | 2    | 5    | 4             | 4    |      |  |  |  |       | 23 |
| 8    | 160722733008   | DIVAKARUNI NAGA ASHWIN      |                 | 2       | 2    | 2    | 2    | 2    | 4    | 4             | 4    |      |  |  |  |       | 22 |
| 9    | 160722733009   | DHARMAPURI SATHVIK          |                 | 2       | 2    | 2    | 2    | 2    | 3    | 3             | 3    |      |  |  |  |       | 19 |
| 10   | 160722733010   | VMS SAINATH CHAKRAVADHANULA |                 | 2       | 2    | 2    | 2    | 2    | 5    | 5             | 4    |      |  |  |  |       | 24 |
| 11   | 160722733011   | YALLAM KUSHENDRA            |                 | 1       |      | 1    | 1    |      | 2    | 2             |      |      |  |  |  |       | 7  |
| 12   | 160722733012   | MOHAMMED AAMIR              |                 | 1       | 0    | 1    | 1    |      | 2    | 2             |      | 1    |  |  |  |       | 8  |
| 13   | 160722733013   | ROHIT KUMAR SHARMA          |                 | 2       | 2    | 2    | 2    | 1    | 4    | 4             |      | 3    |  |  |  |       | 20 |
| 14   | 160722733014   | AMER ALI KHAN               |                 | 1       | 1    | 2    | 1    | 1    | 3    | 2             | 2    |      |  |  |  |       | 13 |
| 15   | 160722733015   | KANCHANAPALLY CHARAN        |                 | 2       | 2    | 2    | 2    | 2    | 4    | 4             | 5    |      |  |  |  |       | 23 |
| 16   | 160722733016   | MOHAMMED FAISAL MOHIUDDIN   |                 | 2       | 2    | 2    | 2    | 2    | 3    | 2             | 0    |      |  |  |  |       | 15 |
| 17   | 160722733017   | M MANISH                    |                 | 2       | 2    | 2    | 2    | 2    | 4    | 4             | 2    |      |  |  |  |       | 20 |
| 18   | 160722733018   | ABDUL QADIR SYED QUADRI     |                 | 1       | 1    | 1    |      |      | 1    | 1             |      | 0    |  |  |  |       | 5  |
| 19   | 160722733019   | YEDDALA INDRAJEET           |                 | 2       | 2    | 2    | 2    | 2    | 4    | 3             | 2    |      |  |  |  |       | 19 |
| 20   | 160722733020   | MOHAMMED MUSTAFA            |                 | 2       | 2    |      |      |      | 3    | 3             |      |      |  |  |  |       | 10 |











|    |              |                          |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----|--------------|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| 21 | 160722733021 | NAGARI ROSHAN            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 19 |
| 22 | 160722733022 | REVOJU AKHIL             |   | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |   |   |   | 9  |
| 23 | 160722733023 | MOHAMMED ABUBAKR SIDDEEQ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |   |   | 3 | 19 |
| 24 | 160722733024 | GOPALAPURAM VISHNU PRIYA | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 |   |   | 3 | 20 |
| 25 | 160722733025 | GOUNI SAHITHI            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 3 | 2 | 3 | 21 |
| 26 | 160722733026 | ARYAN ASTHANA            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 |   |   | 22 |
| 27 | 160722733027 | VALABOJU HARSHITH        | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 19 |
| 28 | 160722733028 | CHIKOTI VARSHITH         | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 22 |
| 29 | 160722733029 | MOHAMMED HUSSAIN MOHEET  | 2 |   | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   | 8  |
| 30 | 160722733030 | E AJAY KUMAR             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |   | 3 | 3 | 3 | 19 |
| 31 | 160722733031 | BALAMANI RATHOD          |   |   | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |   | 9  |
| 32 | 160722733032 | SANKERNENI OMKAR         | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 |   |   | 3 | 21 |
| 33 | 160722733033 | PALLELA ANURAG           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |   | 3 | 4 | 4 | 21 |
| 34 | 160722733034 | MUHAMMAD AHMED ALI ZULFI | 1 | 2 | 2 | 2 | 1 |   | 3 |   | 2 |   |   |   | 11 |
| 35 | 160722733035 | SYED MOUZZAM ALI         | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   | 3 | 3 | 3 | 3 | 19 |
| 36 | 160722733036 | SYED SAJF HASHMI         | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 19 |
| 37 | 160722733037 | MIR WAJID ALI            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |   | 2 |   | 2 | 16 |
| 38 | 160722733038 | KOMARAVELLI VEDHARTH     | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 3 |   |   | 18 |
| 39 | 160722733039 | MORE PRATHIK             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 1 |   |   |   | 15 |
| 40 | 160722733040 | DAMMU VINAY KUMAR        | 2 | 2 | 2 | 2 | 1 | 2 |   | 2 | 3 | 2 | 3 | 2 | 16 |
| 41 | 160722733041 | GADDAM ESHA              | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 |   |   |   | 22 |
| 42 | 160722733042 | SYED ZABI UDDIN AHMED    | 1 | 2 | 2 | 2 | 2 | 1 |   | 3 | 2 | 2 | 2 | 2 | 15 |
| 43 | 160722733043 | KODIGANTI VISHNU         | 1 |   | 2 | 2 | 2 | 2 | 1 |   | 2 | 2 | 2 | 2 | 12 |
| 44 | 160722733044 | MOHD ABDUL BASEER        | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 17 |
| 45 | 160722733045 | CHILLA SAIKUMAR          |   |   | 1 | 2 | 2 | 3 | 3 |   |   |   |   |   | 14 |
| 46 | 160722733046 | MADUGULA CHARANYA        |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 47 | 160722733047 | MOHAMMED LATEEF UDDIN    | 1 | 1 | 2 | 1 | 2 |   |   | 3 | 3 | 3 | 3 | 3 | 16 |
| 48 | 160722733048 | ZAIN ABDUL HAI           | 2 | 2 | 2 | 1 | 2 | 3 | 3 | 2 |   |   |   |   | 17 |
| 49 | 160722733049 | U AKHILA                 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |   |   |   | 3 | 19 |
| 50 | 160722733050 | SHAWAR MAHMOOD           | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   | 3 | 3 | 2 | 3 | 18 |
| 51 | 160722733051 | VIPPARTHI RISHITH        | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   | 3 | 3 | 2 | 2 | 18 |
| 52 | 160722733052 | KOMMU SHIVA TEJA         |   |   | 1 |   |   |   |   |   |   |   |   |   | 1  |
| 53 | 160722733053 | MAHIN FAREEHA            | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 19 |
| 54 | 160722733054 | KOPPU THARUN             |   |   |   |   |   |   | 2 |   | 2 |   | 3 | 3 | 5  |







**METHODIST**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
 Accredited by NAAC with A+ and NBA  
 Estd : 2008 Affiliated to Osmania University & Approved by AICTE



| Subject             | ES                 | 2022-23                  |  |  |  |  |  |  |  |  |  |  |  | Class : CSE-B |      |      |      |      |      |      |      |      |  |  |    |
|---------------------|--------------------|--------------------------|--|--|--|--|--|--|--|--|--|--|--|---------------|------|------|------|------|------|------|------|------|--|--|----|
|                     |                    | I - Mid                  |  |  |  |  |  |  |  |  |  |  |  |               |      |      |      |      |      |      |      |      |  |  |    |
| Name of the Faculty | Dr.K.Santosh Kumar | Attempted                |  |  |  |  |  |  |  |  |  |  |  |               |      |      |      |      |      |      |      |      |  |  |    |
|                     |                    | Above base mark          |  |  |  |  |  |  |  |  |  |  |  |               |      |      |      |      |      |      |      |      |  |  |    |
|                     |                    | Average                  |  |  |  |  |  |  |  |  |  |  |  |               |      |      |      |      |      |      |      |      |  |  |    |
| S No                | Hall Ticket No     | Student Name             |  |  |  |  |  |  |  |  |  |  |  | Total         |      |      |      |      |      |      |      |      |  |  |    |
|                     |                    | Marks                    |  |  |  |  |  |  |  |  |  |  |  |               |      |      |      |      |      |      |      |      |  |  |    |
| 1                   | 160722733065       | PRAN DUTT AVASTHI        |  |  |  |  |  |  |  |  |  |  |  | 62            | 56   | 63   | 61   | 51   | 58   | 62   | 39   | 14   |  |  |    |
| 2                   | 160722733066       | MOHMED MUBAREZ UDDIN     |  |  |  |  |  |  |  |  |  |  |  | 61            | 54   | 63   | 60   | 48   | 31   | 34   | 16   | 4    |  |  |    |
| 3                   | 160722733067       | ZUNAIRA FATIMA           |  |  |  |  |  |  |  |  |  |  |  | 1.68          | 1.68 | 1.83 | 1.79 | 1.61 | 2.62 | 2.76 | 2.36 | 2.00 |  |  |    |
| 4                   | 160722733068       | MOHAMMED OMER ASADI      |  |  |  |  |  |  |  |  |  |  |  | 1             | 2    | 2    | 2    | 2    | 2    | 5    | 5    | 5    |  |  | 25 |
| 5                   | 160722733069       | GUTAM SRIRAM             |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 1    | 1    | 2    |      |      |  |  | 7  |
| 6                   | 160722733070       | BAKLIWAL KSHAMA JAIN     |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 1    | 3    | 3    | 4    |  |  | 19 |
| 7                   | 160722733071       | SADIYA MARFUA            |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 3    | 3    | 2    | 2    |  |  | 14 |
| 8                   | 160722733072       | SYED SHOAIB AHMED        |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 1    | 2    |      |      |  |  | 11 |
| 9                   | 160722733073       | BOINI SINDHUJA           |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 2    | 1    | 3    | 3    |  |  | 18 |
| 10                  | 160722733074       | SALMAN ABDULLAH          |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 2    | 3    | 3    |      |  |  | 16 |
| 11                  | 160722733075       | K. AYYAPPA               |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 1    |  |  | 17 |
| 12                  | 160722733076       | MUSTAFA MOHAMMED MERAJ   |  |  |  |  |  |  |  |  |  |  |  | 2             | 1    | 1    | 1    | 1    | 1    | 2    | 2    | 1    |  |  | 11 |
| 13                  | 160722733077       | THANEERU HARSHINI        |  |  |  |  |  |  |  |  |  |  |  | 1             |      | 2    | 2    | 2    | 1    | 2    | 2    | 1    |  |  | 11 |
| 14                  | 160722733078       | SRI VARDHAN JANDHYALA    |  |  |  |  |  |  |  |  |  |  |  | 1             | 1    | 2    | 2    | 0    | 2    | 3    |      |      |  |  | 11 |
| 15                  | 160722733079       | VUPPALA SAHIL            |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 3    | 3    | 2    |      |  |  | 18 |
| 16                  | 160722733080       | MOHAMMED MAZHER UL HASAN |  |  |  |  |  |  |  |  |  |  |  | 1             | 1    | 1    | 1    | 1    |      | 2    |      |      |  |  | 6  |
| 17                  | 160722733081       | PANDIRI VAISHNAVI        |  |  |  |  |  |  |  |  |  |  |  | 1             | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 1    |  |  | 11 |
| 18                  | 160722733082       | SOLLETI ROHITH REDDY     |  |  |  |  |  |  |  |  |  |  |  | 1             | 1    | 1    | 1    | 1    | 1    | 2    | 2    |      |  |  | 11 |
| 19                  | 160722733083       | MIR AYAN ALI             |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 2    | 3    | 2    |      |  |  | 18 |
| 20                  | 160722733084       | POOJITHA SETTIPALLY      |  |  |  |  |  |  |  |  |  |  |  | 2             | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 2    |  |  | 18 |





|    |              |                        |   |   |   |   |   |   |   |   |   |    |
|----|--------------|------------------------|---|---|---|---|---|---|---|---|---|----|
| 55 | 160722733119 | MOHAMMED ABDUL MUGEES  | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 1 | 19 |
| 56 | 160722733120 | POLE HEMANTH KIRAN     |   |   |   |   |   |   |   |   |   | 0  |
| 57 | 160722733121 | UTNOOR ROOPIKA         | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 |   | 20 |
| 58 | 160722733122 | HAMZA MOHD GHOUSE      | 1 |   | 2 | 1 |   | 1 | 2 |   |   | 7  |
| 59 | 160722733123 | JEEDIMADLA PRAGNA      | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |   | 19 |
| 60 | 160722733124 | GARE BLESSY            | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 2 |   | 14 |
| 61 | 160722733125 | MAMILLA PARUSHURAM     | 1 | 1 | 2 | 2 | 1 | 1 | 2 |   | 1 | 11 |
| 62 | 160722733126 | CHELMILA MANASA        | 1 | 0 | 1 | 1 | 1 | 2 | 2 | 1 |   | 9  |
| 63 | 160722733127 | KOTHULAPURAM HARSHITHA | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   | 16 |
| 64 | 160722733128 | BIRADAR YASH           | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 1 |   | 14 |



# METHODIST

COLLEGE OF ENGINEERING & TECHNOLOGY

Accredited by NAAC with A+ and NBA

Estd : 2008 Affiliated to Osmania University & Approved by AICTE



| S No | Hall Ticket No | Name of the Faculty | Subject | 2022-23                  |      |      |      |      |      |      |      |      |       |    | Class : CSE-B |    |  |  |  |
|------|----------------|---------------------|---------|--------------------------|------|------|------|------|------|------|------|------|-------|----|---------------|----|--|--|--|
|      |                |                     |         | II - Mid                 |      |      |      |      |      |      |      |      |       |    |               |    |  |  |  |
|      |                | Attempted           |         | 57                       | 55   | 61   | 59   | 58   | 44   | 52   | 42   | 27   |       |    |               |    |  |  |  |
|      |                | Above base mark     |         | 57                       | 55   | 61   | 59   | 58   | 40   | 44   | 28   | 22   |       |    |               |    |  |  |  |
|      |                | Average             |         | 1.75                     | 1.87 | 1.90 | 1.81 | 1.76 | 3.27 | 3.27 | 2.95 | 3.04 |       |    |               |    |  |  |  |
|      |                | Student Name        |         | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | Total |    |               |    |  |  |  |
|      |                | Marks               |         | 2                        | 2    | 2    | 2    | 2    | 5    | 5    | 5    | 5    |       |    |               |    |  |  |  |
| 1    | 160722733065   | DR.K.SANTOSH KUMAR  | ES      | PRAN DUTT AVASTHI        | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 5     | 5  | 4             | 24 |  |  |  |
| 2    | 160722733066   |                     |         | MOHIMMED MUBAREZ UDDIN   |      |      |      |      |      |      |      |      |       |    |               | 6  |  |  |  |
| 3    | 160722733067   |                     |         | ZUNAIRA FATIMA           | 2    | 2    | 2    | 2    | 2    | 4    | 4    |      | 3     | 3  | 21            |    |  |  |  |
| 4    | 160722733068   |                     |         | MOHAMMED OMER ASADI      | 2    |      |      |      |      | 3    | 3    | 3    | 3     | 3  | 11            |    |  |  |  |
| 5    | 160722733069   |                     |         | GUTAM SRIRAM             |      | 1    | 1    | 1    | 2    |      | 2    | 2    | 2     | 2  | 9             |    |  |  |  |
| 6    | 160722733070   |                     |         | BAKLIWAL KSHAMA JAIN     | 2    | 2    | 2    | 2    | 2    | 4    |      | 4    |       |    | 18            |    |  |  |  |
| 7    | 160722733071   |                     |         | SADIYA MARFUA            | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 3    |       |    | 19            |    |  |  |  |
| 8    | 160722733072   |                     |         | SYED SHOAIB AHMED        | 2    | 2    | 2    | 2    | 2    | 1    | 3    | 3    |       |    | 17            |    |  |  |  |
| 9    | 160722733073   |                     |         | BOINI SINDHUJA           | 1    | 2    | 2    | 2    | 1    |      | 3    | 3    |       |    | 14            |    |  |  |  |
| 10   | 160722733074   |                     |         | SALMAN ABDULLAH          | 2    | 2    | 2    | 2    | 1    |      | 2    |      |       |    | 11            |    |  |  |  |
| 11   | 160722733075   |                     |         | K AYYAPPA                | 2    | 2    | 2    | 1    | 2    | 4    | 4    |      | 3     | 20 |               |    |  |  |  |
| 12   | 160722733076   |                     |         | MUSTAFA MOHAMMED MERAJ   | 2    | 2    | 2    | 2    | 2    | 3    | 3    |      | 3     | 19 |               |    |  |  |  |
| 13   | 160722733077   |                     |         | THANEERU HARSHINI        | 2    | 2    | 2    | 2    | 2    |      | 3    | 2    | 3     | 18 |               |    |  |  |  |
| 14   | 160722733078   |                     |         | SRI VARDHAN JANDHYALA    | 2    | 2    | 2    | 2    | 2    |      | 3    | 2    | 2     | 17 |               |    |  |  |  |
| 15   | 160722733079   |                     |         | VUPPALA SAHIL            | 2    | 2    | 2    | 2    | 1    | 3    |      |      | 3     | 15 |               |    |  |  |  |
| 16   | 160722733080   |                     |         | MOHAMMED MAZHER UL HASAN | 1    | 2    |      | 1    | 1    | 4    | 1    |      |       | 10 |               |    |  |  |  |
| 17   | 160722733081   |                     |         | PANDIRI VAISHNAVI        | 2    | 2    | 2    | 2    | 2    | 3    | 3    |      | 3     | 19 |               |    |  |  |  |
| 18   | 160722733082   |                     |         | SOLLETI ROHITH REDDY     | 1    | 1    | 1    | 1    | 1    | 3    | 3    |      | 3     | 14 |               |    |  |  |  |
| 19   | 160722733083   |                     |         | MIR AYAN ALI             | 2    | 2    | 2    | 2    | 2    | 5    | 5    | 4    |       | 24 |               |    |  |  |  |
| 20   | 160722733084   |                     |         | POOJITHA SETTIPALLY      | 2    | 2    | 2    | 2    | 1    | 4    | 4    | 2    |       | 19 |               |    |  |  |  |











**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Osmia University & Approved by AICTE



**DEPARTMENT OF HUMANITIES AND SCIENCES**

**ENVIRONMENTAL SCIENCES**

**Assignment Questions**

**Unit - 1**

| S.No             | Questions  | BTL           | Course Outcomes |
|------------------|--|---------------|-----------------|
| <b>SECTION-A</b> |  |               |                 |
| 1.               | Define environment   | Remembering   | CO1             |
| 2.               | What is the scope of environmental studies?  | Remembering   | CO1             |
| 3.               | What is an aquifer? Discuss its types.   | Remembering   | CO1             |
| 4.               | What is soil erosion?  | Remembering   | CO1             |
| 5.               | Discuss the major uses of forests.   | Understanding | CO1             |
| 6.               | Classify renewable and non renewable resources? Give examples.                             | Understanding | CO1             |
| <b>SECTION-B</b> |  |               |                 |
| 7.               | Explain the major causes and consequences of deforestation?                                | Understanding | CO1             |
| 8.               | Briefly discuss drought and floods with respect to their occurrence and impacts.           | Understanding | CO1             |
| 9.               | Discuss with the help of a case study, how big dams have affected forests and the tribals. | Understanding | CO1             |
| 10.              | What are the environmental impact of ground water usage?                                   | Understanding | CO1             |
| 11.              | How do different disciplines contribute to environmental studies?                          | Understanding | CO1             |
| 12.              | Why is it necessary to create environmental awareness?                                     | Understanding | CO1             |

**Note: 1. Assignment should be written in A4 Papers**



Estd : 2008

**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Affiliated to Osmia University & Approved by AICTE



**DEPARTMENT OF HUMANITIES AND SCIENCES**

**ENVIRONMENTAL SCIENCES**

**Assignment Questions**

**Unit – 2**

| S.No             | Questions  | BTL           | Course Outcomes |
|------------------|--|---------------|-----------------|
| <b>SECTION-A</b> |  |               |                 |
| 1.               | Define food chain & food web.  | Remembering   | CO2             |
| 2.               | Define Ecological Pyramids?  | Remembering   | CO2             |
| 3.               | Define ecology and ecosystems.   | Remembering   | CO1             |
| <b>SECTION-B</b> |  |               |                 |
| 4.               | Explain the concept of ecological succession?  | Understanding | CO2             |
| 5.               | Define an ecosystem. Explain the energy flow in ecosystems with the help of a diagram. | Remembering   | CO2             |
| 6.               | Explain the biotic and abiotic structure of an ecosystem.                              | Understanding | CO2             |
| 7.               | What are the different zones in a lake ecosystems?                                     | Understanding | CO2             |

**Note: 1. Assignment should be written in A4 pages.**





Estd : 2008

**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Affiliated to Osmania University & Approved by AICTE



**DEPARTMENT OF HUMANITIES AND SCIENCES**

**ENVIRONMENTAL SCIENCES**

**Assignment & Important Questions**

**Unit – 3**

| S.No | Questions  | BTL           | Course Outcomes |
|------|--|---------------|-----------------|
| 1.   | Distinguish between species and genetic diversity?   | Remembering   | CO3             |
| 2.   | Discuss value of biodiversity and threats to biodiversity?   | Remembering   | CO3             |
| 3.   | Enumerate biogeographical classification of india?   | Remembering   | CO3             |
| 4.   | Discuss the importance of biodiversity for the existence of humans?                                      | Understanding | CO3             |
| 5.   | Explain the possible threats to the biodiversity and how you would plan to control loss of biodiversity. | Understanding | CO3             |



Estd : 2008

**METHODIST**

**COLLEGE OF ENGINEERING & TECHNOLOGY**

Accredited by NAAC with A+ and NBA

Affiliated to Osmania University & Approved by AICTE



**DEPARTMENT OF HUMANITIES AND SCIENCES**

**ENVIRONMENTAL SCIENCES**

**Assignment & Important Questions**

**Unit - 4**

| S.No | Questions   | BTL           | Course Outcomes |
|------|---|---------------|-----------------|
| 1.   | Define thermal pollution. Discuss the causes, effects and control measures for the thermal pollution. | Remembering   | CO4             |
| 2.   | Define noise pollution. Name any two controlling aspects of noise pollution?                          | Remembering   | CO4             |
| 3.   | What is water pollution? Mention causes, effects and remedial measures?                               | Remembering   | CO4             |
| 4.   | Write the salient features of the water (prevention and control of pollution) Act 1974                | Understanding | CO4             |
| 5.   | What are the causes and effects of air pollution?   | Remembering   | CO4             |
| 6.   | Explain solid waste management hierarchy and briefly discuss various solid waste disposal methods?    | Understanding | CO4             |





Estd : 2008

**METHODIST**

**COLLEGE OF ENGINEERING & TECHNOLOGY**

Accredited by NAAC with A+ and NBA

Affiliated to Osmania University & Approved by AICTE



**DEPARTMENT OF HUMANITIES AND SCIENCES**

**ENVIRONMENTAL SCIENCES**

**Assignment Questions**

**Unit – 5**

| S.No | Questions   | BTL           | Course Outcomes |
|------|---|---------------|-----------------|
| 1.   | Write short notes on Environmental Ethics?  | Understanding | CO5             |
| 2.   | What is water conservation and watershed management?  | Understanding | CO5             |
| 3.   | Explain the possible consequences of greenhouse effects?  | Understanding | CO5             |
| 4.   | Write a short notes on:<br>a) ozone layer depletion<br>b) Mention the causes of deforestation.  | Understanding | CO5             |
| 5.   | Discuss the following:<br>a) Clean development mechanism (CDM)<br>b) Role of IT in environment<br>c) Only if we take care of nature, nature will take care of us explain?<br>D) Environmental Education | Understanding | CO5             |

**METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY**

(An Autonomous Institution)  
**B.E. (CSE/AI&DS) I-Semester (AICTE) Examination, March-2023**

**Subject: ENVIRONMENTAL SCIENCE**

**Time: 3 hours**

**Max.Marks:60**

**Note: Missing data, if any, maybe suitably assumed.**

**PART-A**

**Answer All the questions.**

| Q.No. | Questions                                 | Marks | CO | BTL |
|-------|---|-------|----|-----|
| 1 a   | What is Desertification?                  | 2     | 1  | L1  |
| b     | Distinguish Food chain & Food Web         | 2     | 2  | L4  |
| c     | Discuss about Ecosystem                   | 2     | 2  | L5  |
| d     | Define Biodiversity                       | 2     | 3  | L1  |
| e     | Define Disaster                           | 2     | 5  | L1  |
| f     | Determine Noise pollution                 | 2     | 4  | L5  |
| g     | Define Drought                            | 2     | 1  | L1  |
| h     | Define Salinity                           | 2     | 1  | L1  |
| i     | Summarize about Environmental legislation | 2     | 4  | L2  |
| j     | What is mean by Biogeography              | 2     | 3  | L1  |



## PART-B

Answer Any Five questions.

| Q.No. | Questions  | Marks | CO | BTL |
|-------|--|-------|----|-----|
| 2     | a Explain Benefits of Dam.   | 8     | 1  | L2  |
|       | b Explain about Fertilizer problems in modern Agriculture.           |       |    |     |
| 3     | a Classify structure of Ecosystem.                                   | 8     | 2  | L2  |
|       | b Explain about Types of Ecological pyramids.                        |       |    |     |
| 4     | a Relate the threats of Biodiversity.                                | 8     | 3  | L1  |
|       | b Explain about endangered species of India.                         |       |    |     |
| 5     | a Analyze the Causes and effects of Air pollution.                   | 8     | 4  | L4  |
|       | b Distinguish about Forest conservation & wild life protection acts. |       |    |     |
| 6     | a Analyze mitigation measures for Ozone layer depletion.             | 8     | 5  | L3  |
|       | b Categorize Types and impacts of Disasters on environment.          |       |    |     |
| 7     | a Analyze Mitigation Measures for Soil Erosion.                      | 8     | 1  | L3  |
|       | b Categorize important Renewable resources.                          |       |    |     |
| 8     | a Explain about endemic species found in India.                      | 8     | 3  | L2  |
|       | b Categorize Types of Disasters in environment.                      |       |    |     |
| 9     | a Explain about Deforestation & its effects on tribal people.        | 8     | 1  | L2  |
|       | b Define Global warming write about its causes and effects.          |       |    |     |

\*\*\*\*\*



**METHODIST**

**COLLEGE OF ENGINEERING & TECHNOLOGY**

**Accredited by NAAC with A+ and NBA**

**Affiliated to Osmania University & Approved by AICTE**

Estd : 2008



|                       |                        |  |
|-----------------------|------------------------|--|
| Course Name with Code | ENVIRONMENTAL SCIENCES |  |
| Class                 | I SEM - CSE-A          |  |
| Faculty Name          | Dr.K.SANTOSH KUMAR     |  |

| Question | Max Marks of Question | CO Number | Taxonomy Verb |
|----------|-----------------------|-----------|---------------|
| 1 (a)    | 2                     | CO1       | Remembering   |
| b        | 2                     | CO2       | Understanding |
| c        | 2                     | CO2       | Understanding |
| d        | 2                     | CO3       | Applying      |
| e        | 2                     | CO5       | Evaluating    |
| f        | 2                     | CO4       | Analysing     |
| g        | 2                     | CO1       | Remembering   |
| h        | 2                     | CO1       | Remembering   |
| i        | 2                     | CO4       | Analysing     |
| j        | 2                     | CO3       | Applying      |
| 2 (a)    | 4                     | CO1       | Remembering   |
| 2 (b)    | 4                     | CO1       | Remembering   |
| 3(a)     | 4                     | CO2       | Understanding |
| 3(b)     | 4                     | CO2       | Understanding |
| 4(a)     | 4                     | CO3       | Applying      |
| 4(b)     | 4                     | CO3       | Applying      |
| 5(a)     | 4                     | CO4       | Analysing     |
| 5(b)     | 4                     | CO4       | Analysing     |
| 6(a)     | 4                     | CO5       | Evaluating    |



|      |   |     |             |
|------|---|-----|-------------|
| 6(b) | 4 | CO5 | Evaluating  |
| 7(a) | 4 | CO1 | Remembering |
| 7(b) | 4 | CO1 | Remembering |
| 8(a) | 4 | CO3 | Applying    |
| 8(b) | 4 | CO3 | Applying    |
| 9(a) | 4 | CO1 | Remembering |
| 9(b) | 4 | CO1 | Remembering |

| CO No.       | Marks     | %Marks         |
|--------------|-----------|----------------|
| CO1          | 30        | 35.71          |
| CO2          | 12        | 14.29          |
| CO3          | 20        | 23.81          |
| CO4          | 12        | 14.29          |
| CO5          | 10        | 11.90          |
| <b>Total</b> | <b>84</b> | <b>#DIV/0!</b> |

| Taxonomy      | Marks     |
|---------------|-----------|
| Remembering   | 30        |
| Understanding | 12        |
| Applying      | 20        |
| Analysing     | 12        |
| Evaluating    | 10        |
| <b>Total</b>  | <b>84</b> |

Faculty Signature





**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Osmania University & Approved by AICTE



**DEPARTMENT OF CSE**

AY: 2022-2023

Course: Environmental Sciences

Class: B.E I Sem (Sec A&B)

**LIST OF SLOW LEARNERS AS PER INTERNAL-I**

| S. No. | Roll No.     | Name of the Student      |
|--------|--------------|--------------------------|
| 1      | 160722733004 | MOHAMMED SHAFI OMAIR     |
| 2      | 160722733011 | YALLAM KUSHENDRA         |
| 3      | 160722733012 | MOHAMMED AAMIR           |
| 4      | 160722733018 | ABDUL QADIR SYED QUADRI  |
| 5      | 160722733029 | MOHAMMED HUSSAIN MOHEET  |
| 6      | 160722733031 | BALAMANI RATHOD          |
| 7      | 160722733036 | SYED SAIF HASHMI         |
| 8      | 160722733037 | MIR WAJID ALI            |
| 9      | 160722733038 | KOMARAVELLI VEDHARTH     |
| 10     | 160722733042 | SYED ZABI UDDIN AHMED    |
| 11     | 160722733046 | MADUGULA CHARANYA        |
| 12     | 160722733047 | MOHAMMED LATEEF UDDIN    |
| 13     | 160722733052 | KOMMU SHIVA TEJA         |
| 14     | 160722733061 | KUDUMULA SMILEY          |
| 15     | 160722733062 | MOHD LUQMAAN MOHIUDDIN   |
| 16     | 160722733066 | MOHMED MUBAREZ UDDIN     |
| 17     | 160722733069 | GUTAM SRIRAM             |
| 18     | 160722733072 | SYED SHOAIB AHMED        |
| 19     | 160722733080 | MOHAMMED MAZHER UL HASAN |
| 20     | 160722733092 | MOHAMMED AQIB ABDULLAH   |
| 21     | 160722733099 | K MOUNIKA                |
| 22     | 160722733101 | MOHAMMED UZAIR SIDDIQUI  |
| 23     | 160722733114 | KUDIKILLA CHANDANA       |
| 24     | 160722733116 | MD. SHOAIB AHMED         |
| 25     | 160722733117 | B NIKHIL                 |
| 26     | 160722733122 | HAMZA MOHD GHOUSE        |

Faculty:

HOD





**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Omania University & Approved by AICTE



**DEPARTMENT OF CIVIL ENGINEERING**

AY: 2022-2023 Course: Environmental Sciences Class: B.E I Sem (Sec A&B)

**LIST OF FAST LEARNERS AS PER INTERNAL-I**

| S. No. | Roll No.     | Name of the Student         |
|--------|--------------|-----------------------------|
| 1.     | 160722733007 | MALLIKANTI BHARATH KUMAR    |
| 2.     | 160722733010 | VMS SAINATH CHAKRAVADHANULA |
| 3.     | 160722733025 | GOUNI SAHITHI               |
| 4.     | 160722733026 | ARYAN ASTHANA               |
| 5.     | 160722733027 | VALABOJU HARSHITH           |
| 6.     | 160722733028 | CHIKOTI VARSHITH            |
| 7.     | 160722733065 | PRAN DUTT AVASTHI           |
| 8.     | 160722733085 | VIKAS                       |
| 9.     | 160722733102 | AMAN KUMAR MEENA            |
| 10.    | 160722733103 | MOHAMMED SAIF NAWAZ         |
| 11.    | 160722733108 | HEEREKAR SAIRAJ             |
| 12.    | 160722733109 | P PARVATHI                  |
| 13.    | 160722733112 | SANOBAR                     |
| 14.    | 160722733115 | GORRE RENUKA                |

Faculty:

HOD



**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Osmanta University & Approved by AICTE



Course Attainment

Academic Year 2022-2023

|                       |                        |
|-----------------------|------------------------|
| Course Name with Code | ENVIRONMENTAL SCIENCES |
| Class                 | I SEM - CSE-A          |
| Faculty Name          | Dr.K.SANTOSH KUMAR     |
| Type of Exam          | EXTERNAL               |

| Question number                        | University Examination |
|--|------------------------|
| Maximum External Marks                 | 60                     |
| Satisfactory mark set as a base mark   | D                      |
| No. of students scored above Base mark | 60                     |
| No. of students attempted              | 63                     |
| % Students scored above Base mark      | 95%                    |
| <b>CO Attainment</b>                   |                        |
| CO 1                                   | 95                     |
| CO 2                                   | 95                     |
| CO 3                                   | 95                     |
| CO 4                                   | 95                     |
| CO 5                                   | 95                     |
| CO 6                                   | 95                     |

  
Faculty Signature





**METHODIST**

**COLLEGE OF ENGINEERING & TECHNOLOGY**  
**Accredited by NAAC with A+ and NBA**

Estd : 2008

Affiliated to Osmania University & Approved by AICTE



**Course Attainment - Internal I**  
**Academic Year 2022-2023**

|                       |                                    |
|-----------------------|------------------------------------|
| Course Name with Code | Environmental Studies              |
| Class                 | B.E. (CSE) I Semester, Section A&B |
| Faculty Name          | Dr K Santosh Kumar                 |
| Type of Exam          | Internal-I                         |

| Question number                        | PART A |      |      |      |      | PART B |      |      |      | Assign ment | Quiz | Class Test |
|--|--------|------|------|------|------|--------|------|------|------|-------------|------|------------|
|  | 1      | 2    | 3    | 4    | 5    | 6      | 7    | 8    | 9    |             |      |            |
| Maximum Marks of the                   | 2      | 2    | 2    | 2    | 2    | 6      | 5    | 5    | 5    | 5           | 5    | 5          |
| Average marks of the                   | 1.72   | 1.71 | 1.72 | 1.73 | 1.71 | 2.37   | 2.33 | 2.36 | 2.03 | 50%         | 50%  | 50%        |
| Satisfactory mark set as               | 50%    | 50%  | 50%  | 50%  | 50%  | 50%    | 50%  | 50%  | 50%  | 50%         | 50%  | 50%        |
| No. of students scored above Base mark | 121    | 114  | 123  | 112  | 106  | 103    | 103  | 74   | 72   | 128         | 128  | 128        |
| No. of students                        | 122    | 117  | 124  | 114  | 108  | 122    | 123  | 85   | 86   | 128         | 128  | 128        |
| % Students scored                      | 99%    | 97%  | 99%  | 98%  | 98%  | 84%    | 84%  | 87%  | 84%  | 100%        | 100% | 100%       |

| CO Attainment |     |     |     |     |     |     |     |     |     |  |  |  | Overall |      |     |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|---------|------|-----|
| CO 1          | 99% | 97% | 99% |     |     | 84% | 84% |     |     |  |  |  | 100%    | 100% | 95% |
| CO 2          |     |     |     | 98% | 98% |     |     | 87% | 84% |  |  |  | 100%    | 100% | 95% |
| CO 3          |     |     |     |     |     |     |     |     |     |  |  |  |         |      |     |
| CO 4          |     |     |     |     |     |     |     |     |     |  |  |  |         |      |     |
| CO 5          |     |     |     |     |     |     |     |     |     |  |  |  |         |      |     |

Faculty Signature



**METHODIST**

**COLLEGE OF ENGINEERING & TECHNOLOGY**  
**Accredited by NAAC with A+ and NBA**

Estd : 2008 Affiliated to Osmania University & Approved by AICTE



**Course Attainment - Internal I**  
**Academic Year 2022-2023**

|                       |                                    |
|-----------------------|------------------------------------|
| Course Name with Code | Environmental Studies              |
| Class                 | B.E. (CSE) I Semester, Section A&B |
| Faculty Name          | Dr K Santosh Kumar                 |
| Type of Exam          | Internal-II                        |

| Question number            | PART A |      |      |      |      | PART B |      |      |      | Assig<br>nment | Quiz | Class<br>Test |
|----------------------------|--------|------|------|------|------|--------|------|------|------|----------------|------|---------------|
|                            | 1      | 2    | 3    | 4    | 5    | 6      | 7    | 8    | 9    |                |      |               |
| Maximum Marks of the       | 2      | 2    | 2    | 2    | 2    | 6      | 5    | 5    | 5    | 5              | 5    | 5             |
| Average marks of the       | 1.81   | 1.92 | 1.92 | 1.82 | 1.82 | 3.22   | 3.23 | 3.00 | 2.99 | 5              | 5    | 5             |
| Satisfactory mark set as a | 50%    | 50%  | 50%  | 50%  | 50%  | 50%    | 50%  | 50%  | 50%  | 50%            | 50%  | 50%           |
| No. of students scored     | 113    | 110  | 123  | 117  | 118  | 72     | 85   | 61   | 47   | 128            | 128  | 128           |
| No. of students attempted  | 113    | 110  | 123  | 117  | 118  | 84     | 103  | 85   | 63   | 128            | 128  | 128           |
| % Students scored above    | 100%   | 100% | 100% | 100% | 100% | 86%    | 83%  | 72%  | 75%  | 100%           | 100% | 100%          |

| CO Attainment |      |  |  |  |  |     |     |  |  | Overall |      |      |      |     |
|---------------|------|--|--|--|--|-----|-----|--|--|---------|------|------|------|-----|
| CO 1          |      |  |  |  |  |     |     |  |  |         |      |      |      |     |
| CO 2          |      |  |  |  |  |     |     |  |  |         |      |      |      |     |
| CO 3          | 100% |  |  |  |  | 86% |     |  |  |         | 100% | 100% | 100% | 96% |
| CO 4          |      |  |  |  |  |     | 83% |  |  |         | 100% | 100% | 100% | 97% |
| CO 5          |      |  |  |  |  |     |     |  |  | 75%     | 100% | 100% | 100% | 92% |

Faculty Signature





**METHODIST**  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Accredited by NAAC with A+ and NBA  
Estd : 2008 Affiliated to Osmanta University & Approved by AICTE



Course Attainment

Academic Year 2022-2023

|                       |                        |
|-----------------------|------------------------|
| Course Name with Code | ENVIRONMENTAL SCIENCES |
| Class                 | I SEM - CSE-A&B        |
| Faculty Name          | Dr.K.SANTOSH KUMAR     |
| Type of Exam          | EXTERNAL               |

| Question number                        | University Examination |
|--|------------------------|
| Maximum External Marks                 | 60                     |
| Satisfactory mark set as a base mark   | D                      |
| No. of students scored above Base mark | 113                    |
| No. of students attempted              | 126                    |
| % Students scored above Base mark      | 90%                    |
| <b>CO Attainment</b>                   |                        |
| CO 1                                   | 90%                    |
| CO 2                                   | 90%                    |
| CO 3                                   | 90%                    |
| CO 4                                   | 90%                    |
| CO 5                                   | 90%                    |
| CO 6                                   | 90%                    |

Faculty Signature



**METHODIST**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
 Accredited by NAAC with A+ and NBA  
 Affiliated to Omsasra University & Approved by AICTE



Estd : 2008

Academic Year 2022-2023

|                       |                                      |  |
|-----------------------|--------------------------------------|--|
| Course Name with Code | Environmental Studies                |  |
| Class                 | B.E. (CSE) I Semester, Section A & B |  |
| Faculty Name          | Dr K Santosh Kumar                   |  |

| CO Attainment                                     | Internal I | Internal II | External Examinatio | Overall % | Direct Attainment | In-Direct Attainment | Overall Attainment |
|---|------------|-------------|---------------------|-----------|-------------------|----------------------|--------------------|
| CO 1  | 100%       | -           | 95%                 | 98%       | 3                 | 2.9                  | 2.96               |
| CO 2  | 100%       | -           | 95%                 | 98%       | 3                 | 2.8                  | 2.92               |
| CO 3  | -          | 96%         | 95%                 | 96%       | 3                 | 2.95                 | 2.98               |
| CO 4  | -          | 97%         | 95%                 | 96%       | 3                 | 2.85                 | 2.94               |
| CO 5  | -          | 92%         | 95%                 | 94%       | 3                 | 2.9                  | 2.96               |
| DIRECT COURSE ATTAINMENTS (D.A)                   |            |             |                     |           |                   |                      |                    |
| INDIRECT COURSE ATTAINMENTS(I.A)                  |            |             |                     |           |                   |                      |                    |
| OVERALL COURSE ATTAINMENTS ( (0.6*D.A)+(0.4*I.A)) |            |             |                     |           |                   |                      |                    |
| SET TARGET FOR THE COURSE                         |            |             |                     |           |                   |                      |                    |
| COURSE ATTAINMENTS STATUS (YES/NO)                |            |             |                     |           |                   |                      |                    |
| YES   |            |             |                     |           |                   |                      |                    |

|                      |  |
|----------------------|--|
| Best Performing COs: |  |
| Least Performing COs |  |

|               |                      |
|---------------|----------------------|
| CO % score    | CO attainment rubric |
| %CO ≥ 60      | 3                    |
| 50 ≤ %CO < 60 | 2                    |
| %CO < 50      | 1                    |

  
 Faculty Signature



**PO/ PSO MAPPING AT PLANNING STAGE**

| PO/CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| CO.1  | -   | -   | -   | -   | -   | 3   | 3   | -   | -   | -    | -    | 3    | -    | -    | -    |
| CO.2  | -   | -   | -   | -   | -   | 1   | 2   | -   | -   | -    | -    | 2    | -    | -    | -    |
| CO.3  | -   | -   | -   | -   | 3   | 1   | 3   | -   | -   | -    | -    | 3    | -    | -    | -    |
| CO.4  | -   | -   | -   | -   | 3   | 3   | 3   | 3   | -   | -    | -    | 3    | -    | -    | -    |
| CO.5  | -   | -   | -   | -   | -   | -   | 3   | 2   | -   | -    | -    | 3    | -    | -    | -    |
| 101   |     |     |     |     | 3   | 2   | 3   | 2.5 |     |      |      | 3    |      |      |      |

**PO/ PSO MAPPING AT EXECUTION STAGE**

| PO/CO | CO ATTAINED | PO1 | PO2 | PO3 | PO4 | PO5  | PO6  | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|-------|-------------|-----|-----|-----|-----|------|------|-----|-----|-----|------|------|------|------|------|------|
| CO.1  | 2.96        | -   | -   | -   | -   | -    | 2.96 | 3.0 | -   | -   | -    | -    | 3.0  | -    | -    | -    |
| CO.2  | 2.92        | -   | -   | -   | -   | -    | 0.97 | 1.9 | -   | -   | -    | -    | 1.9  | -    | -    | -    |
| CO.3  | 2.98        | -   | -   | -   | -   | 2.98 | 0.99 | 3.0 | -   | -   | -    | -    | 3.0  | -    | -    | -    |
| CO.4  | 2.94        | -   | -   | -   | -   | 2.94 | 2.94 | 2.9 | 2.9 | -   | -    | -    | 2.9  | -    | -    | -    |
| CO.5  | 2.96        | -   | -   | -   | -   | -    | -    | 3.0 | 2.0 | -   | -    | -    | 3.0  | -    | -    | -    |
| 101   |             |     |     |     |     | 3.0  | 2.0  | 2.8 | 2.5 |     |      |      | 2.8  |      |      |      |