

# **ASSIGNMENT BOOKLET**

## **Post Graduate Diploma in Environmental Studies (PGDEVS)**

### **Assignments July 2023 - July 2024 Session**

**Tutor Marked Assignments (TMA) for  
MEV 011; MEVE 019; MEV 015; MEVE 017; MSD  
019; MEV 016; MEVE 011; MEV 017; MEVE 016;  
MEV 014**



**School of Inter-disciplinary and  
Trans-disciplinary Studies  
Indira Gandhi National Open University  
Maidan Garhi, New Delhi-110068**

Dear Learner,

Welcome to the Programme Post Graduate Diploma in Environmental Studies!

You are required to do one assignment for each Course of the Post Graduate Diploma in Environmental Studies. Each assignment is a Tutor Marked Assignment (TMA) and carries 100 marks. Each assignment covers the entire course. Answer any five questions in each assignment.

All questions carry equal marks. This TMA is concerned mainly with assessing your application and understanding of the course material. Please ensure that you read all the units of the course. It is important that you should write the answers to all the questions in your own words. You should remember that writing answers to assignment questions will improve your writing skills and prepare you for the term-end examination.

This booklet includes assignments for the following courses:

**MEV 011: Fundamentals of Environmental Science and Ecology**

**MEVE 019: Environmental Issues**

**MEV 015: Environmental Pollution, Control and Management**

**MEVE 017: Environment and Society**

**MSD 019: Global Strategies to Sustainable Development**

**MEV 016: Environmental Impact Assessment**

**MEVE 011: Global Climate Change**

**MEV 017: Environmental Legislations**

**MEVE 016: Urban Environment**

**MEV 014: Sustainable Natural Resource Management**

It is compulsory to submit the assignments within the stipulated time to be eligible for appearing the term-end examination. The assignments constitute the continuous component of the evaluation process and have 30% weightage in the final grading. Before you write the assignments, first go through the course material and then prepare the assignments carefully by following the instructions pertaining to assignments. Your responses should not be a verbatim reproduction of the textual materials provided for self-learning purposes but it should be in your own words.

If you have any doubt or problem pertaining to the course material and assignments, contact the Programme Coordinator or concerned programme in-charge or Academic Counsellor at your Study Centre for clarification. Once you are able to do the assignment satisfactorily, you will be ready to take the Term-end exam with confidence.

If you still have problems, do feel free to contact us at School of Interdisciplinary and Transdisciplinary Studies.

Wishing you all the best to complete the programme successfully.

**Programme Coordinators**

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New Delhi-11006**

**INSTRUCTIONS**

Before attempting the assignment, please read the following instructions carefully:

1. Read the detailed instructions about the assignment given in the Programme Guide.
2. Write your Enrolment Number, Name, Full Address and Date on the top right corner of the first page of your response sheet(s).
3. Write the Course Title, Assignment Number and the Name of the Study Centre you are attached to, in the centre of the first page of your response sheet(s).
4. Read the instructions related to assignments given in the programme guide.
5. Please note that unless you submit the assignments contained in this booklet within the stipulated time, you would not be permitted to appear for the term-end examination.
6. The top of the first page of your response sheet should be like the following:

NAME: .....
ENROLLMENT NO.: .....
CYCLE OF ADMISSION: .....
PROGRAMME CODE: .....
ASSIGNMENT CODE: .....
COURSE CODE: .....
COURSE TITLE: .....
ADDRESS: .....
CONTACT NUMBER: .....
DATE OF SUBMISSION: .....

## GUIDELINES FOR TMAs

You will find it useful to keep the following points in mind:

- **Planning:** Read the questions carefully. Go through the points on which they are based. Make some points regarding each question and then rearrange these in a logical order. And please write the answers in your own words. Do not reproduce passages from the units.
- **Oganisation:** Be a little more selective and analytic before drawing up a rough outline of your answer. In an essay-type question, give adequate attention to your introduction and conclusion. The introduction must offer your brief interpretation of the question and how you propose to develop it. The conclusion must summarize your response to the question. In the course of your answer, you may like to make references to other texts or books as this will add some depth to your analysis.

### **Note the following points before you start writing the assignments:**

1. Use only A4 paper size for your assignment and tag all the pages carefully.
2. Write the relevant question number with each answer.
3. You should write the answer in your own handwriting.

### **Make sure that your answer:**

- (a) is logical and coherent;
- (b) has clear connections between sentences and paragraphs;
- (c) is written correctly giving adequate consideration to your expression, style and presentation;
- (d) Does not exceed the number of words indicated in the question.

**Submission:** The completed assignment should be sent to the Coordinator of the Study Centre allotted to you. Please read the instructions given in your Programme Guide. These assignment questions are valid for the **January 2023 - July 2024 Session**

- Keep a copy of the assignment answer sheets with you before submission for future reference.
- Answer each assignment on separate sheet.

- It is preferred to write all assignments neatly in your own handwriting. Write your name, course code, enrolment No. and cycle of admission on all the assignments in bold letters.
- Express your response in your own words. You are advised to restrict your response based on the marks assigned to it. This will also help you to distribute your time in writing or completing your assignments on time.

**Remember that you must submit your assignments before you can appear for the Term End Exams. Please remember to keep a copy of your completed assignment, just in case the one you submitted is lost in transit.**

**Good luck with your work!**

# MEV-011: FUNDAMENTALS OF ENVIRONMENTAL SCIENCE AND ECOLOGY

## TUTOR MARKED ASSIGNMENT

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<b>Course Code</b>	<b>: MEV-011</b>
<b>Course Title</b>	<b>: Fundamentals of Environmental Science and Ecology</b>
<b>Assignment Code</b>	<b>: MEV-012/TMA-01/2023-2024 January &amp; July session</b>
<b>Coverage</b>	<b>: All Blocks</b>

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. Give Definition, principles and scope of Environmental Science?
  2. Describe various environmental issues at global, regional and local levels.
  3. Define ecology and describe various environmental factors with suitable examples.
  4. Write short notes on any two of the followings
    - a. Ecological Succession,
    - b. Population Growth
    - c. Major Biomes
    - d. Carrying Capacity
  5. Explain the structure and function of Ecosystem with suitable examples.
  6. Explain the need, purpose and approaches to restoration ecology.
  7. Write short notes on any two of the followings
    - a. Environmental management standards
    - b. Foundations and Scope of Environmental Economics
    - c. Sustainable solutions to environmental Problems
  8. Give definition, concept and milestones for education for Environment and Sustainable Development.

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**MEVE-019: Environmental Issues**  
**TUTOR MARKED ASSIGNMENT**

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Course Code	: MEVE-019
Course Title	: Environmental Issues
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. Explain the formation and dissociation of Stratospheric Ozone.
  2. Discuss the causes of soil pollution.
  3. Discuss the causes of global climate change.
  4. Explain the causes and management of fluoride pollution in India.
  5. Explain the effects of agricultural intensification.
  6. Discuss the challenges to sustainable development.
  7. Explain the causes of marine pollution.
  8. Write short notes on the following:
    - a. Sustainable Buildings
    - b. Crop residue burning

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# MEV-015: Environmental Pollution, Control and Management

## TUTOR MARKED ASSIGNMENT

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Course Code	: MEV-015
Course Title	: Environmental Pollution, Control and Management
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. Name and describe any three control devices for the control of particulate emissions.
  2. Explain inversion. Elaborate on how inversion will affect the dispersion of pollutants
  3. Discuss any two aerobic methods available for sludge treatment
  4. Distinguish between loudness and annoyance
  5. Define criteria pollutants with example
  6. Differentiate between activated sludge process and trickling bed filter
  7. Differentiate between water quality characteristics of surface water and ground water resources.
  8. With the help of a neat sketch explain the principle, construction and working of a Cyclone Separator.

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**MEVE-017: Environment and Society**  
**TUTOR MARKED ASSIGNMENT**

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Course Code	: MEVE-017
Course Title	: Environment and Society
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. Describe the types and characteristics of society.
  2. Explain the importance of culture and environment.
  3. Discuss some of the major concepts and theories in the sub-discipline of Environmental Sociology.
  4. Define environmentalism. Discuss the ideology of environmentalism.
  5. Establish the relationship between Environment and Society.
  6. Explain the Relevance of Survival of the Fittest and The Struggle for Existence in the current scenario.
  7. How does modernization lead to environmental degradation? Explain.
  8. Write a detailed note on the eco social movements highlighting their role in environment conservation.

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# **MSD-019: Global Strategies to Sustainable Development**

## **TUTOR MARKED ASSIGNMENT**

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Course Code	: MSD-019
Course Title	: Global Strategies to Sustainable Development
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**4x25=100**

**Note:** This assignment is based on the entire course.

Answer all the questions. All questions carry 25 marks each.

Please write all answers in your own words.

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1. Define the term poverty. Write a brief note on SDG 1 and India's achievement.
  2. What are the major targets and indicators of SDG-3?
  3. Why gender equality is important for Sustainable Development? Discuss the major India's challenges for achieving SDG -5
  4. Explain the different dimensions of development in context of SDG 11.

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**MEV-016: Environmental Impact Assessment**  
**TUTOR MARKED ASSIGNMENT**

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Course Code	: MEV-016
Course Title	: Environmental Impact Assessment
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. Explain the guiding principles of EIA in detail.
  2. Describe the Screening and Scoping Stages of EIA.
  3. Highlight the role of capacity building and public participation in EIA.
  4. Write a detailed note on the recent advanced in EIA governance.
  5. What factors affect the site planning and development of an industrial estate? Explain.
  6. Throw light on the purpose and method of information collection in EIA.
  7. Discuss the process of “Decision Making” in EIA.
  8. What is Risk Assessment? Explain the stages of Risk Assessment.

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## **MEVE-011: Global Climate Change TUTOR MARKED ASSIGNMENT**

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Course Code	: MEVE-011
Course Title	: Global Climate Change
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. Explain the Anthropogenic drivers of climate change.
2. Explain the Milankovitch Oscillations.
3. Explain the sources of palaeoclimatic data.
4. Explain the impacts of climate change on ocean ecosystem.
5. Explain the impacts of climate change on human health.
6. Explain the salient features of Paris Agreement on Climate Change.
7. Explain the National Action Plan on Climate change.
8. Explain the impacts of climate change on agriculture.

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**MEV-017: Environmental Legislations**  
**TUTOR MARKED ASSIGNMENT**

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Course Code	: MEV-017
Course Title	: Environmental Legislations
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. Discuss the fundamental rights provisions pertaining to environment in the Indian Constitution.
2. Explain the significance of National Air Quality Monitoring Programme.
3. Explain the salient features of Environmental Protection Act, 1986.
4. Explain the features of National Health Policy 2002.
5. Explain the features of Paris Agreement on Climate Change.
6. Explain the features of Hazardous Wastes (Management and Handling) Rules, 1989.
7. Write short notes on the following
  - a. Prevention and control of Fluorosis
  - b. Ecomark
8. Write short notes on the following:
  - a. Forest Conservation Act, 1980
  - b. UNFCCC

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**MEVE-016: Urban Environment**  
**TUTOR MARKED ASSIGNMENT**

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Course Code	: MEVE-016
Course Title	: Urban Environment
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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- 1 Define urbanization. What are the causes of urbanization?
- 2 What are urban wetlands? Suggest methods to conserve them.
- 3 Elucidate the importance and process of urban planning.
- 4 How does population growth affect the growth of a city?
- 5 Write short notes :
  - i) Green infrastructure
  - ii) Urban Climatology
- 6 Elucidate the importance of energy conservation in designing smart cities.
- 7 Throw light on the initiatives of Government in sustainable urban development.
- 8 What is the Green transportation? Describe the obstacles in achieving green transportation in urban areas.

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## **MEV-014: Sustainable Natural Resource Management**

### **TUTOR MARKED ASSIGNMENT**

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Course Code	: MEV-014
Course Title	: Sustainable Natural Resource Management
Assignment Code	: MEV-013/TMA-01/2023-2024 January & July session
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

**Note:** This assignment is based on the entire course.

Answer any five questions. All question carries equal marks.

Please write all answers in your own words.

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1. What are natural resources? Classify the natural resources based on their availability.
2. What is a mineral and describe its types? Describe the importance of mineral resources.
3. Describe soil and land resources and their conservation practices.
4. Discuss status and distribution of forests in India. Discuss the impacts of deforestation.
5. Describe approaches for natural resource conservation.
6. Describe various Government schemes and Programmes for Natural Resource Conservation and Sustainable Livelihood.
7. Describe fresh water and marine resources of India and discuss their conservation practices.
8. Write notes on:
  - i. Solar energy
  - ii. Wind energy
  - iii. Geothermal energy
  - iv. Hydropower energy

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