

# **ASSIGNMENT BOOKLET**

**Master of Arts (Environmental Studies) (MAEVS)**

**Assignments**

**January 2025 to July 2026 Sessions  
(Valid from Jan 2025 to December 2026)  
Second Year**

**Tutor Marked Assignments (TMA)**



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

Dear Learner,

Welcome to the Programme Master of Arts (Environmental Studies) (MAEVS)!

You are required to do one assignment for each Course of the Master of Arts (Environmental Studies). Each assignment is a Tutor Marked Assignment (TMA) and carries 100 marks. Each assignment covers the entire course. 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.

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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## 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.
- **Organisation:** 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 2025 to July 2026 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 019: RESEARCH METHODOLOGY FOR ENVIRONMENTAL SCIENCE**

## **TUTOR MARKED ASSIGNMENT**

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**Course Code:** MEV-019

**Course Title:** Research Methodology for Environmental Science

**Assignment Code:** MEV-019/TMA-01/January 2025 to July 2026 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 types and approaches of research. Explain the importance of formulating research questions, objectives and hypothesis.
2. Explain the different types of sampling designs. Explain the different methods of data collection.
3. Write short notes on the following:
  - a. Frequency distribution
  - b. Data tabulation
  - c. Diagrammatic representation
  - d. Measures of central tendency
4. Explain the different types of remote sensing. Explain the advantages and disadvantages of remote sensing.
5. Write short notes on the following:
  - a. Measures of dispersion
  - b. GIS

- c. Copyright
  - d. Research ethics
6. Discuss the applications of geospatial technologies in natural resource management.
7. Write short notes on the following: (20 marks)
- a. Spearman's Rank correlation coefficient
  - b. Student's t distribution
  - c. Plagiarism
  - d. Type-I and Type-II error
8. Explain the concept of regression. Explain the properties of regression coefficients. measures of Central Tendency. (20 marks)

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# MEVE-014 : BIODIVERSITY CONSERVATION AND MANAGEMENT

## TUTOR MARKED ASSIGNMENT

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Course Code	: MEVE-014
Course Title	: <b>Biodiversity Conservation and Management</b>
Assignment Code	: MEVE-014/TMA-01/January 2025 to July 2026 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 different types of biodiversity and biodiversity indices.
  2. Write short notes on the following:
    - a. Tropical forests
    - b. Agroecosystem
    - c. Coastal ecosystem
    - d. Boreal forests
  3. Explain the causes and consequences of habitat destruction and fragmentation.
  4. Explain the multi-dimensional aspects of conservation biology. Discuss the characteristic features of biodiversity hotspots in India.
  5. Explain the approaches to ecosystem restoration. Discuss the benefits of restoring degraded ecosystem.
  6. Explain the principles of sustainable harvesting. Explain the benefits of sustainable harvesting of agriculture and forest resources.
  7. Write short notes on the following:
    - a. Bishnoi movement
    - b. Chipko movement
    - c. Save silent valley movement
    - d. Appiko movement
  8. Write short notes on the following:
    - a. Green Consumerism
    - b. Sustainable Cities
    - c. Green Infrastructure
    - d. Participatory Forest management

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# **Tutor Marked Assignment**

## **MEV 024: Climate Change Assessment Tools**

**Course Code: MEV 024**

**Assignment Code: MEV-024/TMA**

**Max. Marks: 100**

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

**Answer any five questions.** All question carries equal marks. The marks for each question are indicated against it within brackets on the right-hand side.

Please write all answers in your own words.

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1. Explain the application of geoinformatics in disaster risk reduction. (20 marks)
2. Describe the methods for analysing vulnerability to climate change. (20 marks)
3. Define geographic information system. Explain its components. (20 marks)
4. Explain the different stages of life cycle assessment study. (20 marks)
5. Explain the following: (20 marks)
  - a. Spectral signatures of common earth surface features
  - b. Vector data Model
6. Explain the features and applications of crop simulation models. (20 marks)

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## MEV-002 : ENVIRONMENTAL AND OCCUPATIONAL HAZARDS

### TUTOR MARKED ASSIGNMENT

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Course Code	: MEV-002
Course Title	: <b>Environmental and Occupational Hazards</b>
Assignment Code	: MEV-002/TMA-01/ <b>January 2025 to July 2026 session</b>
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. Classify the various types of biological hazards with suitable examples.
  2. Describe the causes, types, and impacts of earthquakes.
  3. Discuss the impacts of floods.
  4. Explain the various psychosocial and ergonomic hazards faced in the health sector.
  5. Describe the various health hazards faced by employees in the corporate and office sectors.
  6. Write short notes on:
    - a) Radiation hazards
    - b) Chemical hazards.
  7. Differentiate hazards and disaster. What are the steps involved in hazard assessment? Explain.

# **MEV 025: Climate Change and Society**

## **Tutor Marked Assignment**

**Course Code: MEV 025**

**Assignment Code: MEV-025/TMA/**

**Max. Marks: 100**

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

**Answer any five questions.** All question carries equal marks. The marks for each question are indicated against it within brackets on the right-hand side.

Please write all answers in your own words.

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1. Explain the impacts of climate change on human society. (20 marks)
2. Explain the measures taken by the Indian government to address climate change. (20 marks)
3. Explain how climate change challenges sustainable development. (20 marks)
4. Explain the impacts of climate change on critical infrastructure. (20 marks)
5. Explain how gender mainstreaming aid in addressing climate change. (20 marks)
6. Explain the salient features of Paris Agreement on climate change. (20 marks)

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## **MSD 023 : SOCIAL ECOLOGY, GLOBALISATION AND SUSTAINABILITY**

### **TUTOR MARKED ASSIGNMENT**

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Course Code	: MSD 023
Course Title	: Social Ecology, Globalisation and Sustainability
Assignment Code	: MSD-023//TMA-01/ <b>January 2025 to July 2026 session</b>
Coverage	: All Blocks

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Maximum Marks 100

**4x25=100**

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

Answer all questions. All question carries equal marks.

Please write all answers in your own words.

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1. Discuss the limitations and future scope of the Global Biodiversity Fund and the Global Carbon Fund.
2. Explain how globalization influences the economic growth of different nations across the world, with special reference to developing countries.
3. What are the different phases of socio-technical transition. Explain each phase with suitable examples.
4. Discuss the different zones of centrism ideologies.

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# **MEV 018: ENVIRONMENTAL HEALTH AND ECOTOXICOLOGY**

## **TUTOR MARKED ASSIGNMENT**

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**Course Code:** MEV-018

**Course Title:** Environmental Health and Ecotoxicology

**Assignment Code:** MEV-018/TMA-01/January 2025 to July 2026 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 interactions between environment and human health. Explain the importance of a healthy environment and lifestyle.
2. Explain the concept of ecotoxicology. Write briefly the differences between biodegradable and non-biodegradable substances. Describe the influence of environmental factors on toxicity.
3. Explain the factors affecting concentration of toxicants in environment. Explain the biochemical aspect of toxicants.
4. Explain the pathways, dispersion and transportation of the toxic substances. Explain the concept of bio-accumulation and bio-magnification.
5. Describe the concept of well-being. Explain the dimensions and determinants of health.
6. Explain the importance of public health surveillance and environmental health. Discuss the Government initiatives to promote environmental sanitation.
7. Explain various food borne diseases, their classification, pathogenesis, prevention and control.
8. Write short notes on the following:
  - a. Environmental monitoring

- b. Absorption of Toxicants
- c. Dose Response Relationship
- d. Mechanism of Carcinogenicity and teratogens

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## **MED-003: ENERGY AND ENVIRONMENT**

### **TUTOR MARKED ASSIGNMENT**

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**Course Code:** MED-003

**Course Title:** Energy and Environment

**Assignment Code:** MED-003/TMA-01/January 2025 to July 2026 session

**Coverage:** All Blocks

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Maximum Marks 100

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

Answer all questions. All questions are compulsory.

Please write all answers in your own words.

\* Write the answers in about 250 words for 5 marks questions and not exceeding 500 words for 10 marks questions.

Marks for the questions are shown within brackets on the right-hand side.

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1. Discuss the role of individuals in effecting energy savings and developing energy infrastructure. (10)
2. Explain the basic principle of electricity generation underlying the nuclear power plant. (10)
3. Highlight a few measures that can be used to save energy in the commercial and industrial sectors in India. (10)
4. Explain the working of a bio gas plant with neat diagram. (10)
5. Examine the perspective of developing countries regarding energy vis-à-vis environment. (10)

6. Elaborate on Power to the people: A Ten-Point agenda for change. (10)
7. What is home energy audit? Discuss the different aspects of conservation of energy in homes. (10)
8. Describe the process of extracting crude oil in an oil well and refining it in petroleum refineries. (10)
9. Write short notes on the following: (4x5=20)
- (i) Limitations of Clean Development Mechanism
  - (ii) Benefits of Demand Side Management
  - (iii) Advantages and limitations of small hydropower plant
  - (iv) Solar Photovoltaic Technology



**MEVE-012 : ENVIRONMENTAL MANAGEMENT**  
**TUTOR MARKED ASSIGNMENT**

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<b>Course Code</b>	<b>: MEVE-012</b>
<b>Course Title</b>	<b>: Environmental Management</b>
<b>Assignment Code</b>	<b>: MEVE-012/TMA-01/January 2025 to July 2026 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. Elaborate the functions of Environmental Management.
  2. What is sustainable business? Explain its components.
  3. Explain the factors affecting the evaluation of Environmental Performance.
  4. What are the principles and scope of Environmental Management.
  5. Elucidate the importance of manager in an organization. What is the difference between management and administration?
  6. What is environmental audit? How the environmental audit is conducted in a firm?
  7. Explain the concept of Environmental Management System.
  8. What is the role of service organizations in implementing CSR policy of the Government of India?

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# MEVE-015 : DISASTER MANAGEMENT

## TUTOR MARKED ASSIGNMENT

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Course Code	: MEVE-015
Course Title	: <b>Disaster Management</b>
Assignment Code	: MEVE-015/TMA-01/ <b>January 2025 to July 2026 session</b>
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 the types of natural and man-made disasters? Explain
  2. Highlight the importance of disaster preparedness in mitigating the effects of natural disasters.
  3. Discuss the role of Disaster management Governance.
  4. What the key components of Disaster Management Preparedness Framework.
  5. Write a note on the human health and sanitation related issues occurring during disasters.
  6. Explain the financing and insurance related policies for disaster reduction in India.
  7. What are the rules and regulations governing Disaster Management in India. Write briefly.
  8. Discuss the role of international agencies in managing disasters.

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## **MEDS-42 : ISSUES AND CHALLENGES IN URBAN PLANNING AND DEVELOPMENT**

### **TUTOR MARKED ASSIGNMENT**

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Course Code	: MEDS-42
Course Title	: Issues and Challenges in Urban Planning and Development
Assignment Code	: MEDS-42/TMA-01/ <b>January 2025 to July 2026 session</b>
Coverage	: All Blocks

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Maximum Marks 100

**5x20=100**

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

Answer all questions. All question carries equal marks.

Please write all answers in your own words.

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1. What are different sources of urban energy? Explain sustainable urban energy planning.
  2. Explain different challenges of urban law and order. Discuss urban revitalization measures to improve law and order.
  3. Describe typology of urban informal settlement. Explain causes and formation of informal settlements.
  4. Explain meaning and importance of urban heritage. What are challenges of urban heritage?
  5. Define poverty. Discuss the causes and consequences of urban poverty.