

# **ASSIGNMENT BOOKLET**

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

**Assignments  
July 2024 Session  
Second Year**

**Tutor Marked Assignments (TMA) for  
MEV 019; MEVE 014; MEV 024; MEV 002; MEV 025; MSD 023; MEV 018; MED  
003; MEVE 012; MEVE 015; MEDS 042**



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

Dear Learner,

Welcome to the Programme M.A. (Environmental Studies)!

You are required to do one assignment for each Course of the M.A. (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.

### Second Year Courses

This booklet includes assignments for the following courses:

#### Semester III

<b>S. No</b>	<b>Course Title</b>	<b>Credits</b>
MEV 019	Research Methodology for Environmental Science	4
MEVE 014	Biodiversity Conservation and Management	4
<b>CHOOSE ANY THREE COURSES FROM THE FOLLOWING</b>		
MEV 024	Climate Change Assessment Tools	4
MEV 002	Environmental and Occupational Hazards	4
MEV 025	Climate Change and Society	4
MSD 023	Social Ecology, Globalization and Sustainability	4
MEV 018	Environmental Health and Ecotoxicology	4
MED 003	Energy and Environment	4
	Total Credits	20

## Semester IV

S. No	Course Title	Credits
MEVE 012	Environmental Management	4
MEVE 015	Disaster Management	4
MEDS 042	Issues and Challenges in Urban Planning and Development	6
MEVP-012	Project/Dissertation	6
	Total Credits	20

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

Prof. Shachi Shah, [sshah@ignou.ac.in](mailto:sshah@ignou.ac.in)

Dr. V. Venkatramanan, [vvramanan@ignou.ac.in](mailto:vvramanan@ignou.ac.in)

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New Delhi-1100**

## 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 **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-019: RESEARCH METHODOLOGY FOR  
ENVIRONMENTAL SCIENCE**

**TUTOR MARKED ASSIGNMENT**

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<b>Course Code</b>	<b>: MEV-019</b>
<b>Course Title</b>	<b>: Research Methodology for Environmental Science</b>
<b>Assignment Code</b>	<b>: MEV-019/TMA-01/July 2024 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 questions carry equal marks.

Please write all answers in your own words.

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1. Discuss the factors affecting the selection of a research topic. (20 marks)
2. Explain the different types of frequency distribution. (20 marks)
3. Explain the significance of diagrammatic representation of data. (20 marks)
4. Write short notes on the following: (20 marks)
  - a. Research Ethics
  - b. Copyright
5. Write short notes on the following: (20 marks)
  - a. Level of significance
  - b. Chi-square distribution
6. Explain the measures of Central Tendency. (20 marks)
7. Explain the different objectives of data tabulation. (20 marks)
8. Explain the principles of research designs. (20 marks)

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# MEVE-014: BIODIVERSITY CONSERVATION AND MANAGEMENT

## TUTOR MARKED ASSIGNMENT

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<b>Course Code</b>	: MEVE-014
<b>Course Title</b>	: Biodiversity Conservation and Management
<b>Assignment Code</b>	: MEVE-014/TMA-01/July 2024 session
<b>Coverage</b>	: 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 questions carry equal marks.

Please write all answers in your own words.

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1. Define Biodiversity. Differentiate between genetic diversity, species diversity and ecosystem diversity with suitable examples.
  2. Describe biodiversity values. Explain interlinkages between biodiversity and ecosystem services.
  3. Explain human impacts on biodiversity with suitable examples/case studies.
  4. Give type of extinction and IUCN threatened category. Explain how biodiversity loss can be prevented.
  5. What is indigenous knowledge? Describe the role of traditional knowledge in biodiversity conservation.
  6. What is conservation Biology? Explain the criteria for protection of habitats and species.
  7. Describe various national laws and legislations for conservation and management of biodiversity.
  8. What is Endemism? Give an account of status of Indian biodiversity as mega biodiversity center.

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## MEV 024: Climate Change Assessment Tools

### Tutor Marked Assignment

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<b>Course Code</b>	: MEV 024
<b>Course Title</b>	: Climate Change Assessment Tools
<b>Assignment Code</b>	: MEV 024/TMA-01/July 2024 session
<b>Coverage</b>	: 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. 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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<b>Course Code</b>	: MEV 002
<b>Course Title</b>	: ENVIRONMENTAL AND OCCUPATIONAL HAZARDS
<b>Assignment Code</b>	: MEV 002/TMA-01/July 2024 session
<b>Coverage</b>	: 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. 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. Classify the various types of chemical hazards with suitable examples.
2. Describe the causes, types, and impacts of Tsunamis and earthquakes.
3. Describe the causes of drought.
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) Biological hazards.
7. Differentiate hazards and disaster. What are the steps involved in hazard assessment? Explain.

## MEV 025: Climate Change and Society

### Tutor Marked Assignment

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<b>Course Code</b>	: MEV 025
<b>Course Title</b>	: Climate Change Assessment Tools
<b>Assignment Code</b>	: MEV 025/TMA-01/July 2024 session
<b>Coverage</b>	: 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. 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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<b>Course Code</b>	: MSD 023
<b>Course Title</b>	: Social Ecology, Globalisation and Sustainability
<b>Assignment Code</b>	: <b>MSD 023/TMA-01/July 2024 session</b>
<b>Coverage</b>	: <b>All Blocks</b>

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Maximum Marks 100

**4x25=100**

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

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. Write an essay on social changes due to global conventions.
  2. Discuss any two environmental issues due to colonisation.
  3. What are the major significances of second wave of globalisation?
  4. Define Globalisation indicators. What are its limitations?

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## MEV 018 Environmental Health and Ecotoxicology

### Tutor Marked Assignment

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<b>Course Code</b>	: MEV 018
<b>Course Title</b>	: <b>Environmental Health and Ecotoxicology</b>
<b>Assignment Code</b>	: <b>MEV 018/TMA-01/July 2024 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. 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. Define health. Explain the relationship between environmental quality and human health.
  2. Elucidate the importance of maintaining sanitation for safeguarding human health
  3. Differentiate between degradable and non-degradable toxic substances giving appropriate examples.
  4. Highlight the influence of ecological factors on toxicity of substances.
  5. How does maintaining healthy lifestyle contribute towards achieving Sustainable Development Goal 3?
  6. Explain the mechanism of absorption and distribution of toxicants.
  7. Explain the causes and control measures of Goitre.
  8. Describe the importance and objectives of environmental monitoring

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## **MED-003: Energy and Environment**

### **TUTOR MARKED ASSIGNMENT**

**Course Code: MED-003**

**Assignment Code: MED-003/TMA/2024**

**Maximum Marks: 100**

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

**\* All questions are compulsory. Marks for the questions are shown within brackets on the right-hand side.**

**\* Please answer in your own words; do not copy from the course material.**

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

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1. What is solar photovoltaic technology? Discuss its underlying principle and applications. (5+10=15)
  2. Explain how the carrying capacity of the Earth can be estimated using various parameters. (10)
  3. Give a brief description of the future projection of world energy demand as per EIA International Energy Outlook2004. (10)
  4. Discuss the advantages and limitations of Clean Development Mechanism to help meet the challenge of combating climate change. (5+5=10)
  5. Discuss the factors that need to be kept in view while formulating the energy policy. (10)
  6. What is energy economics? Explain the factors that need to be considered in energy economics. (2+8=10)
  7. Describe the positive and negative impacts of the solar energy technology on the environment. (5)
  8. Discuss the working of a wind energy system with the help of a suitable diagram. (5)
  9. Discuss the advantages and limitations of small hydropower plant. (5)
  10. Write short notes on the following: (4x5=20)
    - (i) Functions of the components of a thermal power plant
    - (ii) Benefits of carbon taxation
    - (iii) Working of a biogas plant
    - (iv) Fuel switching
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**MEVE-012: ENVIRONMENTAL MANAGEMENT**  
**TUTOR MARKED ASSIGNMENT**

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Course Code	: MEVE-012
Course Title	: Environmental Management
Assignment Code	: MEVE-012/TMA-01/ <b>July 2024</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.**

1. Enumerate various indicators of sustainability and explain how they contribute towards environmental management.
2. Differentiate between product stewardship and green business.
3. Explain the Environmental audit in detail.
4. What are ISO, ISO 14000, and ISO 14001? How are these standards developed?
5. What is a business charter? Discuss briefly the principles for business charter for achieving sustainable development.
6. List different components of environmental management. Giving suitable examples, discuss how cultural and social subsystems affect it.
7. Highlight the role of IT and digital interventions in Environmental Management.
8. Explain Life Cycle Assessment giving suitable example.

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**MEVE-015: DISASTER MANAGEMENT**  
**TUTOR MARKED ASSIGNMENT**

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Course Code: MEVE 015

Course Title: Disaster Management

Assignment Code: MEVE-015/TMA-01/July 2024

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. 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 basic concepts in disaster management. What are the challenges of disasters?
2. Discuss disaster preparedness with suitable examples.
3. Explain risk and vulnerability with reference to natural Disasters.
4. Explain disaster medical management with suitable examples.
5. Explain risk and vulnerability assessment for hydrological hazards.
6. Discuss environmental health, hygiene and sanitation issues during disasters.
7. Describe the roles and responsibilities of difference agencies in disaster preparedness.
8. Discuss public health response and relief measures in disaster management.

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**MEDS 042: Issues and Challenges in Urban Planning and Development**

**TUTOR MARKED ASSIGNMENT**

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Course Code: MEDS 042

Course Title: **Issues and Challenges in Urban Planning and Development**

Assignment Code: MEDS 042/TMA-01/July 2024

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. 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. 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.

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