# ASSIGNMENT BOOKLET

## Post Graduate Diploma in Environmental Studies (PGDEVS)

## Assignments
## January 2025 to July 2026 Sessions
## (Valid from Jan 2025 to December 2026)

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

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. 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**

Prof. Shachi Shah, sshah@ignou.ac.in
Dr. V. Venkat Ramanan, vvramanan@ignou.ac.in
Dr. Deeksha Dave, deekshadave@ignou.ac.in

**School of Interdisciplinary and Transdisciplinary Studies**
**Indira Gandhi National Open University, Maidan Garhi,**
**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.
- **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 **S**tudy 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-011 : FUNDAMENTALS OF ENVIRONMENTAL SCIENCE AND ECOLOGY

## TUTOR MARKED ASSIGNMENT

| | |
|---|---|
| **Course Code** | **: MEV-011** |
| **Course Title** | **: Fundamentals of Environmental Science and Ecology** |
| **Assignment Code** | **: MEV-011/TMA-01/January 2025 to July 2026 session** |
| **Coverage** | **: All Blocks** |

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 key principles of the ecosystem approach to conserving natural resources.
2. Explain the human impact on ecosystem functioning, global energy flow, food security and public health.
3. Discuss the causes of land degradation. Explain the strategies for ecosystem restoration.
4. Write short notes on any two of the followings
    a. Sustainable Development
    b. Carbon footprint
    c. Kyoto Protocol
    d. Biodiversity
5. Describe the processes that affect community organisation. Explain interspecific and intraspecific interactions with suitable examples.
6. Explain the causes, types and processes of succession.
7. Explain the structure and function of ecosystem.

8. Explain the biogeochemical cycling of nitrogen and phosphorus.

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# MEVE-019 : ENVIRONMENTAL ISSUES

## TUTOR MARKED ASSIGNMENT

| | |
|---|---|
| Course Code | : MEVE-019 |
| Course Title | : **Environmental Issues** |
| Assignment Code | : MEVE-019/TMA-01/**January 2025 to July 2026 session** |
| Coverage | : All Blocks |

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 drivers and extent of biodiversity loss.
2. Write short notes on the following:
   a. In-situ conservation
   b. Ex-situ conservation
   c. Biomass burning
   d. Biomass management practices
3. Explain the health impacts of Persistent Organic Pollutants and Radioactive wastes. Discuss the management strategies of Persistent Organic Pollutants and Radioactive wastes.
4. Discuss the genesis of Sustainable Development Goals. Explain the challenges to sustainable development.
5. Discuss the impacts of urbanization. Explain the challenges to sustainable urbanization.
6. Discuss the sources, causes, mechanism and process of eutrophication.
7. Discuss the causes, effects and management strategies of soil pollution.
8. Discuss the causes, impacts and management of inland water pollution.

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**MEV-015: ENVIRONMENTAL POLLUTION, CONTROL AND MANAGEMENT**

**TUTOR MARKED ASSIGNMENT**

| | |
|---|---|
| Course Code | : MEV-015 |
| Course Title | : **Environmental Pollution, Control and Management** |
| Assignment Code | : MEV-015/TMA-01/**January 2025 to July 2026 session** |
| Coverage | : All Blocks |

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 pollutants based on the source, state, polluted area and location with suitable examples. Explain the concept of primary and secondary pollutants. Explain the concept of source-transport receptor approach for pollution management.
2. Explain the effects of air pollutants on plant and animal health, and materials. Describe the influence of weather parameters on air pollutant dispersion.
3. Explain the concept of water quality. Explain the influence of various natural processes to determine the water quality. Discuss the effects of the contaminated water on environment.
4. Write short notes on the following:
    a. Soil Pollution
    b. Effects of radioactive pollution
    c. Thermal pollution
    d. Noise pollution

5. Discuss the sources and effects of oil pollution. Explain the strategies to control and manage oil spills with suitable case studies and examples.
6. Describe the various methods for control of suspended particulates, volatile organic compounds and pollutant gases
7. Write short notes on the following:
    a. Activated sludge method
    b. Flocculation
    c. Chemical precipitation
    d. Reverse osmosis and electrodialysis
8. Write short notes on the following:
    a. Municipal Waste management
    b. Electronic Waste management
    c. Waste hierarchy
    d. Incineration

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# MEVE-017 : ENVIRONMENT AND SOCIETY

## TUTOR MARKED ASSIGNMENT

| | |
|---|---|
| Course Code | : MEVE-017 |
| Course Title | : **Environment and Society** |
| Assignment Code | : MEVE-017/TMA-01/**January 2025 to July 2026 session** |
| Coverage | : All Blocks |

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 society. Explain the types of material and non-material society.
2. Define social change. Explain the processes of social change in India.
3. Discuss some of the major concepts and theories pertaining to Environmental Sociology.
4. Explain the causes and consequences of environmental inequality.
5. Throw light on the various eco-social movements highlighting the works of various environmentalists and their contribution to society.
6. What is environmental crisis? Elaborate the importance of environmental conservation for societal welfare.
7. Describe the historical development of science and technology.
8. Describe the concept of eco-feminism. Elucidate the role of women in environment protection.

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# MSD 019 : GLOBAL STRATEGIES TO SUSTAINABLE DEVELOPMENT

## TUTOR MARKED ASSIGNMENT

| | |
|---|---|
| Course Code | : MSD 019 |
| Course Title | : **Global Strategies to Sustainable Development** |
| Assignment Code | : MSD-019//TMA-01/**January 2025 to July 2026 session** |
| Coverage | : All Blocks |

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 any three social protection measures of the Government of India for poverty reduction in India.

2. Explain any three major targets of SDG 5- Gender equality and its indicators with special reference to India.

3. Highlight India's progress on any two targets of SDG 11: Sustainable Cities and Communities.

4. Analyse SDG-17 as an essential approach to the SDGs.

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**MEV-016: ENVIRONMENTAL IMPACT ASSESSMENT**

**TUTOR MARKED ASSIGNMENT**

| | |
|---|---|
| Course Code | : MEV-016 |
| Course Title | : **Environmental Impact Assessment** |
| Assignment Code | : MEV-016/TMA-01/**January 2025 to July 2026 session** |
| Coverage | : All Blocks |

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 objectives and scope of EIA. Discuss the steps involved in EIA process.
2. Discuss the various methodologies used in EIA process. Explain the Strategic Environmental Assessment.
3. Explain the provisions of Environmental Protection Act 1986 and EIA Notification 2006.
4. Classify industries based on raw materials, source of raw materials, size and ownership. Explain the contributions of capacity building in EIA.
5. Explain the objectives of environmental setting in EIA. Explain the importance of decision making in EIA process.
6. Write short notes on the following:
    a. EIA reporting
    b. EIA Quality
    c. EIA review process
    d. Environmental Management Plan

7. Discuss the features of Environmental Impact Statement. Explain the concept of EIA governance.
8. Explain the scope and stages of risk assessment. Explain the human and ecological risk assessment.

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# MEVE-011 : GLOBAL CLIMATE CHANGE

## TUTOR MARKED ASSIGNMENT

| | |
|---|---|
| **Course Code** | **: MEVE-011** |
| **Course Title** | **: Global Climate Change** |
| **Assignment Code** | **: MEVE-011/TMA-01/January 2025 to July 2026 session** |
| **Coverage** | **: All Blocks** |

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 vertical structure and composition of atmosphere. Explain the global energy budget with a suitable diagram.
2. Explain Milankovitch oscillations with suitable diagrams. Explain the factors affecting amount of energy flux received at the earth's surface.
3. Write short notes on any two of the following:
    a. Atmospheric window
    b. Greenhouse Effect
    c. Emissions from wetlands
    d. El Nino
4. Explain the negative impacts of agriculture on environment. Explain the impacts of urbanization on environment.
5. Discuss the National Action Plan on Climate Change. Explain the capacity building from the perspective of UNFCCC.
6. Write short notes on any two of the following:

a. Drought
b. Timberline
c. Kyoto Protocol
d. Glacial Lake Outburst Floods

7. Discuss the different types of climate models.
8. Explain the climate change impacts on physical and chemical properties of ocean.

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# MEV 017: ENVIRONMENTAL LEGISLATIONS

## TUTOR MARKED ASSIGNMENT

**Course Code: MEV-017**

**Course Title: Environmental Legislations**

**Assignment Code: MEV-017/TMA-01/January 2025 to July 2026 session**

**Coverage: All Blocks**

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 duties provisions pertaining to environment in the Indian Constitution. Discuss the features of National conservation strategy for the conservation of the natural resources.

2. Explain the salient features of Environmental Protection Act, 1986. Explain the features of National Green Tribunal Act, 2010.

3. Write Short notes on the following:

   a. Pitambar Committee

   b. Tiwari Committee

   c. Central Pollution Control Board

   d. State Pollution Control Board

4. Explain the key mechanisms of Kyoto protocol. Explain the features of Paris Agreement on Climate Change.

5. Write short notes on the following

a. EIA

b. Public Liability Insurance Act 1991

c. Noise Pollution Control Laws

d. Forest Conservation Act, 1980

6. Write short notes on the following:

a. Johannesburg declaration on sustainable development

b. The Antarctic Treaty, 1959

c. Montreal Protocol

d. Cartagena protocol on biosafety

7. a. Explain the salient features of Biomedical wastes (Management and handling) Rules 1998, and Municipal solid waste (Management and handling) Rules 2000.

8. Explain the features of Scheduled Tribes and other traditional forest dwellers (Recognition of forest rights) Act 2006. Explain the importance of Biological Diversity Act, 2002.

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# MEVE-016 : URBAN ENVIRONMENT

## TUTOR MARKED ASSIGNMENT

| | |
|---|---|
| Course Code | : MEVE-016 |
| Course Title | : **Urban Environment** |
| Assignment Code | : MEVE-016/TMA-01/**January 2025 to July 2026 session** |
| Coverage | : All Blocks |

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. Write a note on the meteorological factors affecting the urban environment?
2. Highlight the importance of sustainable urban development in generating jobs and securing livelihoods.
3. Explain the factors responsible for urbanization.
4. Define urban ecology. Explain its importance from sociological point of view.
5. Explain the difference between smart cities and eco cities.
6. Explain the concept of Rank size Rule. What are the key points in rank size distribution of cities.
7. How should the resource planning be done in urban areas to equalise the distribution of amenities?
8. What are urban forests? What steps must be taken to improve the area under forests in urban areas.

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## MEV 014: SUSTAINABLE NATURAL RESOURCE MANAGEMENT

## TUTOR MARKED ASSIGNMENT

| | |
|---|---|
| **Course Code** | **: MEV-014** |
| Course Title | : Sustainable Natural Resource Management |
| **Assignment Code** | **: MEV-014/TMA-01/January 2025 to July 2026 session** |
| **Coverage** | **: All Blocks** |

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 different feedstock sources for bioenergy production. Discuss the salient features of National Policy on Biofuels.
2. Explain the steps in resource conservation planning. Discuss the schemes and programmes for natural resource management and sustainable livelihood.
3. Discuss the reasons for biodiversity loss. Discuss the features of sustainable livestock rearing.
4. Explain the challenges to inland water fisheries development in India. Explain the issues that affect marine aquatic resources.
5. Explain the sources, types, advantages and disadvantages of geothermal energy.
6. Explain the ecological services provided by forest and land resources.
7. Explain the distribution, characteristics and uses of ferrous and non-ferrous minerals.
8. Explain the major forest types and their characteristics. Explain the causes and consequences of deforestation.

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