

Environmental Impact Assessment & Management

Unit:1

- 1.What is EIA? Discuss merits and demerits of EIA. Discuss its objectives.
- 2.Explain the classification of environmental parameters.
- 3.What is Initial environmental examination?
- 4.What are the important steps in EIA?
- 5.Give a brief account on cost benefit analysis of EIA.
- 6.Discuss about the need of EIA for engineering projects.
- 7.Describe possible changes in the environment by various project activities.
- 8.Describe the preparation of Environmental Base map
- 9.Describe systematic approach for using EIA as a planning tool for major Project activities in brief.
- 10.Explain about methods of evaluation step in EIA process

Unit-2: EIA Methodologies

- 1.Explain the necessity of Environmental impact Assessment. Justify how EIA will lead to sustainable development?

2. What are the basic parameters to be followed in selecting an impact assessment methodology? Explain matrix method of EIA.
3. What are the advantages of overlaying the techniques? State the limitations of cost benefit analysis.
4. How does the Matrix method help the project planner?
5. What is interaction - Matrix methodology? Explain.
6. List out different EIA methods. Explain Ad-hoc methods.
7. Describe Environmental media Quality Index method

Unit-3: Impact of Development Activities and Land Use

1. Explain the impact of developmental activities and land use on environment.
2. Discuss the mitigation measures for soil and groundwater impacts.
3. Explain the following: a) Environmental analysis b) Assessment of impact Significance
4. Explain the general impacts on soil environment by development activity
5. How to assess the impacts on soil and water by mining activity? Explain in detail.
6. Explain the methodology for the assessment of ground water.

Unit-4:

1. How do you identify various potential environmental impacts resulting from an engineering project? Explain briefly.
2. List the various Environmental indicators and indices. Explain the environmental indices for air quality description
3. Explain the Qualitative approaches for prediction of environmental impacts of engineering projects.
4. Explain the following approaches for prediction of environmental impacts of engineering projects a) Mass balance approaches b) Mathematical modeling approach.
5. Draw the schematic diagram for conceptual approach to the study focused on surface water Environment impacts.
6. Explain stepwise how do you predict and assess impacts in the Air environment.

Unit-5:

1. What is meant by Environmental audit? What are the different objectives of it? Explain.
2. Write short note on post Audit activities.
3. Explain stepwise how do you predict and assess impacts in the air environment.
4. Write a detailed note on identification of surface water quantity and quality impacts.
5. What are the advantages of Environment risk assessment?

Unit-6:

1. Write a short note on Environmental Impact of deforestation.
2. Write a short note on Audit protocol.
3. Discuss the need for public awareness on environment impact assessment.
4. Write a detailed case study on the Bhopal gas tragedy.
5. Write a note on Environmental pollution Act.
6. Discuss Environmental protection studies in industries. Give a case study.
7. Explain the Case Study of Environmental Impact Assessment on Thermal power station?
8. Write a note on Preparation of Audit Report
9. Write a note on Environmental legislation