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CO	1	To make them understand the basics of EIA and its limitations across sectoral issues and terms of references in EIA. It also includes the study of participation of Public and Non-Governmental Organizations in environmental decision making.												
CO2 To understand about the methods and components of EIA and to learn about the systems								expert						
CO	3	To understand in detail about the prediction tools for EIA along with the mathematical modeling for impact prediction												
CO	4		To improve the knowledge on the ethical and quality aspects of Environmental Impact Assessment											
CO:	5	To know in detail about the Case studies of EIA related to the various sectors in a country like infrastructure, sources of energy etc.										intry		
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List of Topics Covered

UNIT I INTRODUCTION

9

Environment Impact Assessment (EIA) - Environmental Impact statement – EIA in Project Cycle – Legal and Regulatory aspects in India according to Ministry of Environment and Forests – Types and Limitations of EIA- cross sectoral issues and terms of references in EIA- participation of Public and Non-Governmental Organizations in environmental decision making.

UNIT II COMPONENTS AND METHODS

9

Components of EIA – Processes – screening – scoping – setting – analysis - mitigation. Matrices-Networks – Checklists – connections and combinations of processes – Cost benefit analysis - Analysis of alternatives - Software packages for EIA-Expert systems in EIA.

UNITHI PREDICTION, ASSESSMENT OF IMPACTS AND REPORTING 9

Prediction tools for EIA-Mathematical modeling for impact prediction-Assessment of impacts-air-water-soil-noise-biological-socio-cultural environments-Cumulative Impact Assessment-Documentation of EIA findings-planning-organization of information and visual display materials-Report preparation.

UNIT IV ENVIRONMENTAL MANAGEMENT PLAN

9

Environmental Management Plan-preparation, implementation and review- Mitigation and Rehabilitation Plans-Policy and guidelines for planning and monitoring programmes - post project audit-Ethical and Quality aspects of Environmental Impact Assessment.

UNIT V CASE STUDIES

9

Case studies related to the following sectors-Infrastructure-Mining-industrial-Thermal Power –River valley and Hydroelectric-Nuclear Power.