

SSLC, HSE, DIPLOMA, B.E/B.TECH, M.E/M.TECH, MBA, MCA

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OCE751 ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT

DETAILED SYLLABUS

OBJECTIVE:

- To impart the knowledge and skills to identify, assess and mitigate the environmental and social impacts of developmental projects

UNIT I INTRODUCTION

Impacts of Development on Environment – Rio Principles of Sustainable Development
Environmental Impact Assessment (EIA) – Objectives – Historical development – EIA Types
– EIA in project cycle –EIA Notification and Legal Framework.

UNIT II ENVIRONMENTAL ASSESSMENT

Screening and Scoping in EIA – Drafting of Terms of Reference, Baseline monitoring,
Prediction and Assessment of Impact on land, water, air, noise, flora and fauna - Matrices –
Networks – Checklist Methods - Mathematical models for Impact prediction.

UNIT III ENVIRONMENTAL MANAGEMENT PLAN

Plan for mitigation of adverse impact on water, air and land, water, energy, flora and fauna –
Environmental Monitoring Plan – EIA Report Preparation – Public Hearing-Environmental
Clearance

UNIT IV SOCIO ECONOMIC ASSESSMENT

Baseline monitoring of Socio-economic environment – Identification of Project Affected
Personal – Rehabilitation and Resettlement Plan- Economic valuation of Environmental
impacts – Cost benefit Analysis

UNIT V CASE STUDIES

EIA case studies pertaining to Infrastructure Projects – Roads and Bridges – Mass Rapid
Transport Systems - Airports - Dams and Irrigation projects - Power plants.

OUTCOMES:

The students completing the course will have ability to

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- carry out scoping and screening of developmental projects for environmental and social assessments
- explain different methodologies for environmental impact prediction and assessment
- plan environmental impact assessments and environmental management plans
- evaluate environmental impact assessment reports

TEXT BOOKS:

1. Canter, R.L, "Environmental impact Assessment ", 2nd Edition, McGraw Hill Inc, New Delhi,1995.
2. Lohani, B., J.W. Evans, H. Ludwig, R.R. Everitt, Richard A. Carpenter, and S.L. Tu, "Environmental Impact Assessment for Developing Countries in Asia", Volume 1 – Overview, Asian Development Bank,1997.
3. Peter Morris, Riki Therivel "Methods of Environmental Impact Assessment", Routledge Publishers,2009.

REFERENCES:

1. Becker H. A., Frank Vanclay,"The International handbook of social impact assessment" conceptual and methodological advances, Edward Elgar Publishing,2003.
2. Barry Sadler and Mary McCabe, "Environmental Impact Assessment Training Resource Manual", United Nations Environment Programme,2002.
3. Judith Petts, "Handbook of Environmental Impact Assessment Vol. I and II", Blackwell Science New York, 1998.
4. Ministry of Environment and Forests EIA Notification and Sectoral Guides, Government of India, New Delhi, 2010.