BCE:703 ENVIRONMENTAL IMPACT ASSESSMENT

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MODULE I

Evolution of EIA : EIA at project; Regional and policy levels; Strategic EIA; EIA process; Screening and scoping criteria; Rapid and comprehensive EIA; Specialized areas like environmental health impact assessment

MODULE II

Environmental risk analysis; Economic valuation methods; Cost-benefit analysis; Expert system and GIS applications; Uncertainties; Practical applications of EIA; EI methodologies; Baseline data collection; Prediction and assessment of impacts on physical, biological and socio-economic environment

MODULE III

Environmental management plan; Post project monitoring, EIA report and EIS; Review process. Case studies on project, regional and sectoral EIA; Legislative and environmental clearance procedures in India and other countries, Siting criteria; CRZ; Public participation; Resettlement and rehabilitation.

Text Books::

1. B. M. Noble, Introduction to Environmental Impact Assessment: A Guide to Principles and Practice. Oxford University Press, USA, 2005.

2. J. Glasson, Introduction to Environmental Impact Assesment: Principles, and Procedures, Process, Practice and Prospects (The Natural and Built Environment Series), Routledge; 3rdedition, 2005.

References:

1. P. Morris, Methods of Environmental Impact Assessment (The Natural and Built Environment Series), Spon Press, USA, 2ndedition, 2001.

2. R. K. Jain, L. V. Urban, G. S., Stacey, Harold, E. Balbach, Environmental Assessment, McGraw-Hill Professional; 2 edition, 2001.

3. B. B. Marriott, Environmental Impact Assessment: A Practical Guide, McGraw-Hill Professional, 1 edition, 1997.

4. D. P. Lawrence, Environmental Impact Assessment: Practical Solutions to Recurrent Problems, Wiley-Interscience; 1stedition, 2003.

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