

7th Semester	REV7D002	Environmental Impact Assessment	L-T-P 3-0-0	3 Credits
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Module-I:**(10 hours)**

Introduction Impact of development projects – Sustainable development- Need for Environmental Impact Assessment (EIA) - Environmental Impact Statement (EIS) – EIA capability and limitations – Legal provisions on EIA-Stages of EIA, Types of EIA

Module-II:**(10 hours)**

Methodologies Methods of EIA – Check lists – Matrices – Networks – Cost-benefit analysis – Analysis of alternatives

Module-III:**(10 hours)**

Prediction and assessment Assessment of Impact on land, water, air, social & cultural activities and on flora & fauna- Mathematical models- Public participation

Module-IV:

Environmental management plan Plan for mitigation of adverse impact on environment – Options for mitigation of impact on water, air, land and on flora & fauna - Addressing the issues related to the Project Affected People. Post project monitoring Case studies EIA for infrastructure projects – Dams – Highways – Multi-storey Buildings – Water Supply and Drainage Projects – Waste water treatment plants.

Books:

- [1] Canter, R.L., “Environmental Impact Assessment”, McGraw Hill Inc., New Delhi, 1996.
- [2] Shukla, S.K. and Srivastava, P.R., “Concepts in Environmental Impact Analysis”, Common Wealth Publishers, New Delhi, 1992.
- [3] John G. Rau and David C Hooten “Environmental Impact Analysis Handbook”, McGraw Hill Book Company, 1990.
- [4] “Environmental Assessment Source book”, Vol. I, II & III. The World Bank, Washington, D.C., 1991.
- [5] Judith Petts, “Handbook of Environmental Impact Assessment Vol. I & II”, Blackwell Science, 1999.