

Course Type	Course Code	Name of Course	L	T	P	Credit
DC	ESC 310	Environmental Impact Assessment	3	0	0	9

Course Objective

To develop the skills in the EIA so that the development projects with EC can realize real life environmental sustainability.

Learning Outcomes

- Understanding the significant and importance of carrying out EIA
- Understanding of EIA process
- The students will come out with skills in EIA /EMP formulation with follow-up EC practices of various development projects

Unit No.	Topics to be Covered	Lecture Hours	Learning Outcome
1	Evolution of EIA Process , National environmental policy act and its implementation;	04	Appreciation of the significance & importance of EIA
2	Planning and management of impact Assessment studies, EIA Process – Screening, Scoping, EIA EMP Preparation, Public Consultation. Decision Making, Post Monitoring and Auditing	08	Understanding the stages of EIA process
3	Methodologies for EIA – Impact identification checklists, matrices etc. , Environmental indices and indicators for describing the affected environment;	06	Help in understanding why and how EIA is carried out
4	Assessment , Prediction and Mitigation aspects in EIA, Air and Water Impact Assessment, Ecological Impact Assessment, social Impact Assessment.	11	Understanding how the specific individual specific environmental attribute is assessed & mitigated
5	Risk and Uncertainty in EIA. Documentation of EIA and EMP NABET accreditation aspects of EIA/EMP Preparation	07	Help in understanding the NABET accreditation aspects of carrying out EIA
6	Regional Environmental Impact Assessment(REIA), Strategic Environmental Assessment(SEA),	06	Understanding how EIA is carried out at regional as well national levels

Books :

- **Environmental Impact Assessment -Larry, W. Canter (latest ed), McGraw Hill Inc. Singapore,**
- **Environmental Assessment – Ravi Jain/L. V. Urban, McGraw-Hill, Latest Edition**

Reference:

- **Environmental and Social Impact Assessment – C. J. Barrow, Arnold Publication, Latest Edition**
- **EIA Notification 1994, 2006 and amendments**