

School of Planning and Architecture, Vijayawada

Department of Planning

Lecture Plan

Name of Course: Environmental Impact Assessments Techniques (MEPM214)

Programme & Sem: Master of Environmental Planning & Management (PG), Semester Three

Course Duration: Odd Semester 2023-24

Course Coordinator: Rajeev R., Assistant Professor, Dept. of Planning (rajeevnair@spav.ac.in)

Number of Credits: 03

Subject Category: Theory

Total Periods/Week: 03 (See Time Table for details)

Internal Assessment: 50 (minimum pass marks 50%)

End Evaluation: 50 (minimum pass marks 50%) – Written Exam.

Total Marks: 100 (to be converted to CGPA credit pattern as per regulations)

Subject Objective: To introduce a theoretical base for application of environmental impact assessment in development planning.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode (Optional)
Week 1	Need for EIA: What constitutes 'environment' and 'environmental impact'; Understanding 'impact' within the context of environment; EIA and its relation with planning practise.	Orientation & Lecture
Week 2	Nature & Purpose of environmental impact assessment; Understanding varying typologies of impacts and varying perspectives of stakeholders in large projects; Current issues in environmental impact assessment; Origin and Development of EIA in global context.	Lecture, and Interactive Session – Role Playing
Week 3	Legislative context of EIA in India; the process of general EIA – key 6 theoretical steps; Steps as entailed in the MoEF Notification - Govt of India.	Lecture
Week 4		
Week 5	Internal Assessment – 1 : Assignment – Understanding Sector specific guidelines and Assessment of Impacts on Resources	PPT Presentation and Poster submission
Week 6 & 7	STUDIO FIELD VISIT	--
Week 8	Screening of Projects for EIA in Indian context; Process Flow of EIA.	Lecture
Week 9	Mid-term Assessment	Written Assessment
Week 10	Guidelines and Terms of Reference for EIA. Baseline preparation for Impact identification.	
Week 11	EIA methods – Check List Methods, Matrices Methods, Network Methods etc.; prioritization and assessment	Lecture
Week 12		
Week 13	Measurement of Impacts: Methods and models for prediction; Cost—benefit analysis and monetary valuation techniques; Scoring and weighting and multi-criteria methods.	Special Lecture
Week 14	Strategic Environmental Assessment	Lecture
Week 15	Internal Assessment – 3 : Appraisal of Sector specific EIA Case Studies in India – a) Townships,	Presentation, Interactive Session & Case

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	b) Highways, c) Ports and Harbours, d) Power projects e) Mining, etc. Mode: Seminar by students followed by inputs by Faculty.	Study Discussion.
Week 16	Concept of Social Impact Assessments: Types; Basic Steps; Prediction and Changes in Socio-economic Factors; Case Study; People's participation in Environmental Impact Assessments Finalisation & Display of Internal Assessment and Attendance	Lecture

Suggested Readings/ References from Library:

- 1) Glasson J., Therivel R. and Chadwick A. (2005) "Introduction to Environmental Impact Assessments – 3rd Edition", Routledge. London.
- 2) Richard K. Morgan, (2002) "Environmental impact assessment - A Methodological Perspective". Kluwer Academic Publishers, Boston.
- 3) Morris P. and Therivel Riki, (2010) "Methods of EIA – 3rd Edition". Routledge, London.
- 4) Sachithanandan A. N. "Environmental impact assessment" – Associateship Examination Reader Volume, ITPI

Additional Readings/ References/ Materials - Online:

- 1) Ministry of Environment and Forests (2012), Terms Of Reference [ToR] For EIA Report. Govt of India, Delhi. viz. "Environmental Impact Assessment Guidance Manual for Building, Construction, Townships And Area Development Projects". Gol, Delhi etc.
https://environmentclearance.nic.in/report/User_eia_manuals.aspx
- 2) UNDP (2006) "A Guide To Strategic Environmental Assessment". UNDP, NY.
- 3) Fischer B. T. (2007) "The Theory and Practice of SEA – Towards a more systematic approach" "SEA & Land Use Planning : An International Evaluation", Edited by Jones C. et. al. (2005).
- 4) Environmental Impact Assessment - Analyzing Benefits and Actions :
<https://www.youtube.com/watch?v=3fbEVytyJCK>
- 5) NPTEL/SWAYAM Course videos on Environmental Impact Assessment

Note:

1. Any other closed holidays as declared by SPAV shall supercede the above lecture plan. Holidays shown above may alter as per Notice from time to time.
2. Assessment Sessions may be re-scheduled, with prior intimation.
3. Reading lists provided is not exhaustive and is subject to addition – students are advised to follow progression of class to keep abreast of the new reading lists, if any.