

योजना तथा वास्तुकला विद्यालय, विजयवाड़ा  
School of Planning and Architecture, Vijayawada  
An Institute of National Importance, Ministry of Education, Govt. of India

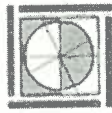
**Department of Planning,**  
**Lecture Plan, Odd Semester, A.Y. 2024-25**

**Name of Course:** Environmental Impact Assessments Techniques (MEPM213)

<b>Programme &amp; Sem:</b>	<b>Master of Environmental Planning &amp; Management (PG), Semester Three</b>
Course Duration:	Odd Semester 2024-25
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/ Unit/ Assignment
Week 1 (16 <sup>th</sup> August 2024)	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 (Unit 1)
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 (Unit 1,2)
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.; Conceptual Approach; Proposal, Study Formulation, Responsibilities assignment.	Lecture, Tutorial (Unit 1,2)
Week 4		
Week 5	<b>Internal Assessment – 1 : Assignment –</b> Understanding Sector specific guidelines and Assessment of Impacts on Resources; and  EIA Case Studies in India* (ongoing Classroom Activity) a) Townships, b) Highways, c) Ports and Harbours, d) Power projects e) Mining, f) Manufacturing/ Processing Industries etc.	PPT Presentation and Poster submission – 15 Marks
Week 6 & 7	<b>STUDIO FIELD VISIT (27<sup>th</sup> August to 08<sup>th</sup> September 2024)</b>	--
Week 8	Screening of Projects for EIA in Indian context; Process Flow of EIA. Continuation of Week 5 Exercise in class.	Lecture (Unit 2)



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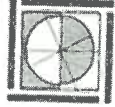
Week 9	<b>Mid-Semester Assessment Week (17<sup>th</sup> to 21<sup>st</sup> September 2024)</b>	Written Assessment -- 20 marks
Week 10	Guidelines and Terms of Reference for EIA. Baseline preparation for Impact identification.	Lecture, Tutorial (Unit 2,3)
Week 11 & 12	EIA methods – Check List Methods, Matrices Methods, Network Methods etc.; prioritization and assessment; Determination of Environmental Impact Importance and Determination of Weightages	Lecture (Unit 3, 4)
Week 13 & 14	Measurement of Impacts: Methods and models for prediction; Cost—benefit analysis and monetary valuation techniques; Scoring and weighting and multi-criteria methods.	Special Lecture, Tutorial (Unit 4)
Week 15	Strategic Environmental Assessment	Lecture (Additional)
Week 16	<b>Internal Assessment – 3</b> : Mini-Project – Students shall attempt to carry out an academic EIA appraisal for selected projects in a given study location  Mode: Seminar by students followed by inputs by Faculty.	Presentation, Interactive Session & Case Study Discussion. (Unit 5) – 15 Marks
Week 17	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 (14 <sup>th</sup> November 2024)	Lecture (Unit 5)

**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](https://environmentclearance.nic.in/report/User_eia_manuals.aspx)
- 2) UNDP (2006) "A Guide To Strategic Environmental Assessment". UNDP, NY.



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- 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.