

## Lecture Plan

**Name of the College: Government College of Arts, Science and Commerce. Sanquelim- Goa**

**Name of Faculty:**

**Subject: Zoology**

**Paper code: ZOO 322**

**ENVIRONMENTAL IMPACT  
ASSESSMENT**

**Program: T.Y. BSc**

**Division: A**

**Academic year: 2025-  
2026**

**Semester:VI**

**Total Lectures: 45**

**Course Objectives:**

1. Acquaint the learners with an understanding and appreciation of impacts on the environment of developmental activities.
2. Familiarize with the impact appraisal methods and mitigation approach relevant to our country.
3. Understand the working of different organizations / groups involved in EIA.
4. Invest in future environment-friendly citizenry.

<p><b>Expected Course Outcome: At the end of this course, students will be able to:</b></p> <ol style="list-style-type: none"> <li><b>1. Understand relevance of EIA to India's fast pace of development.</b></li> <li><b>2. Acquire applied knowledge of EIA and contribute effectively to appraisal of developmental projects.</b></li> <li><b>3. Gain hands-on experience in conducting environmental risk assessments.</b></li> <li><b>4. Appreciate EIA proceedings.</b></li> </ol>								
<p><b>Student Learning Outcome:</b></p>								
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/Assignment	ICT Tools	Reference books	
December	01-12-2025	06-12-2025	03	<p>MODULE I: Introduction to Environmental Impact Assessment</p> <ul style="list-style-type: none"> <li>Link between Environmental Impact Assessment (EIA) and Sustainable Development.</li> <li>Global overview of genesis, history, and progression of EIA.</li> </ul>		PPT	<p>1. B. Marriott, Environmental impact assessment: a Practical Guide, McGraw-Hill, 1997.</p> <p>2. C. H. Eccleston, Environmental Impact Assessment: A Guide to Best</p>	

								Professional Practices, CBS Publications, New Delhi, 2011. 3. G. Colombo, Environmental Impact Assessment, Springer, New York, 1992.
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December	08-12-2025	13-12-2025	03	<ul style="list-style-type: none"> <li>• Evolution of EIA in India, purpose, and principles of EIA.</li> <li>• EIA Notification 2006 and Institutional Framework for conduct of EIA in India</li> </ul>		PPT	
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December	15-12-2025	20-12-2025	02	<ul style="list-style-type: none"> <li>• Constitution and role of</li> <li>• Expert Appraisal Committee (EAC), Ministry of Environment</li> <li>Forests and Climate Change, Govt. of India (MoEFCC, GoI).</li> <li>• State Environmental Impact Assessment Authority (SEIAA).</li> </ul>		PPT	

December	22-12-2025	24-12-2025	1	<ul style="list-style-type: none"> <li>• Constitution and role of</li> <li>• State Environmental Impact Assessment Authority (SEIAA).</li> <li>• State Experts Appraisal Committee (SEAC).</li> </ul>		PPT	
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January	02-01-2026	03-01-2026	01	<ul style="list-style-type: none"> <li>• Project Categories.</li> </ul>		PPT	
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January	05-01-2025	10-01-2025	03	<ul style="list-style-type: none"> <li>• Public Participation / Consultations in key stages of EIA and benefits thereof.</li> </ul> <p>Content:</p> <ul style="list-style-type: none"> <li>• Salient features of Draft EIA notification 2020.</li> </ul>		PPT	
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January	12-01-2025	17-01-2025	03	<p>MODULE II: EIA process and Environmental Clearance (EC)</p> <ul style="list-style-type: none"> <li>• Flowchart of a Generalized EIA process.</li> <li>• Application for EC, project profile and feasibility report.</li> </ul>		PPT	
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January	19-01-2026	24-01-2026	03	<p>Screening: Purpose and screening methods.</p> <ul style="list-style-type: none"> <li>• Scoping: Role and purpose of Scoping in EIA, Guiding principles, and objectives of scoping.</li> <li>• Standard Terms of References (ToR).</li> </ul>		PPT	
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January	27-01-2026	31-01-2025	03	<ul style="list-style-type: none"> <li>• Brief idea of Types of Environmental Impact Assessments (Rapid EIA, Comprehensive EIA, Cumulative Impact Assessment, Strategic EIA, Regional and Sectoral EIA, Project level EIA and Life Cycle Assessment).</li> <li>• Identification and consideration of alternatives.</li> </ul>		PPT	
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February	02-02-2026	07-02-2026	03	<p>Environmental Impact Assessment Methods by Checklists, Matrices, Networks, Map Overlays and Geographic information system (GIS).</p> <p>Procedure for Public Consultation and participation.</p>		PPT	.
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February	09-02-2026	14-02-2026	03	Appraisal by EAC/SEAC. Grant or Rejection of Environmental Clearance (EC) Cancelation, validity, and transfer of Environmental Clearance.			
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February	16-02-2026	21-02-2026	03	<p>Environmental Management Plan (EMP).</p> <p>Post EC Monitoring.</p> <p>The convention of Environmental Impact Assessment in a Trans-boundary Context.</p>		PPT	
February	23-02-2026	28-02-2026	03	<p>MODULE III: Functional Areas in EIA and capacity building for quality appraisal and accreditation of EIA consultants</p> <p>A brief idea of the 12 Functional Areas in EIA and scope of work in baseline data collection, Impact assessment and mitigation.</p>		PPT	

March	02-03-2026	07-03-2026	03	Land use, Air pollution monitoring, prevention, and control, Meteorology, air quality modelling and prediction, Water pollution monitoring, prevention and control, Ecology and biodiversity, Noise and vibration, Socioeconomics, Hydrology, Ground water and water conservation, Geology, Soil conservation, Risk assessment and hazard management		PPT	
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March	09-03-2026	14-03-2026	03	QCI-NABET as an Accreditation agency for EIA Consultants and its role in fair and transparent EIA. Brief idea of accreditation process, and cycles.		PPT	
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March	16-03-2026	21-03-2026	02	Requirements of accreditation and Key persons in an EIA Consultancy (EIA Coordinator, Associate EIA Coordinator, Functional Area Experts, Functional Area Associates, Team members and Mentors).		PPT	
March	23-03-2026	28-03-2026	02	Fraudulent data, the confidentiality clause and punitive action for misconduct by EIA Consultants.		PPT	

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March	30-03-2026	31-03-2026	01	<p>A Critical Evaluation of Environmental Impact Assessments: A Case Study of Goa Mines, India.</p>		PPT	<p>B. Marriott, Environmental impact assessment: a Practical Guide, McGraw-Hill, 1997.</p> <p>2. C. H. Eccleston, Environmental Impact Assessment: A Guide to Best Professional Practices, CBS Publications, New Delhi, 2011.</p> <p>3. G. Colombo, Environmental Impact Assessment, Springer, New York, 1992.</p> <p>4. N. S. Raman, A. R. Gajbhiye, and S. R. Khandeshwar, Environmental Impact Assessment, I. K. International Publishing, 2014.</p>
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							5. N. S. Raman, A. R. Gajbhiye, and S. R. Khandeshwar, Environmental Impact Assessment, L. K. Intl. Publ. House, New Delhi, 2014.	6. P. Morris, and R. Therivel, Methods of Environmental Impact Assessment, 3rd Edition, Routledge, 2001.	7. P. R. Trivedi, Environmental Impact Assessment, APH Publ. Corp., New Delhi, 2012.
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