

Course – Plan

School : School of Sciences

Department : Environmental Science

Course Code : ES 563

Course Title : Environmental Impact Assessment

L2-T0-P0-CR2

Instructor/s: Dr. R. R. Hoque

Dr. Amit Prakash

Abstract:

This course introduces the various theory and practical aspects of Environmental Impact Assessment. It explains the different practises of EIA followed by reputed funding agencies and Governments world over.

Objectives:

To introduce students to the different rules and regulations related to EIA in India

To explore the various techniques used for EIA reports at various stages of EIA

To do cost benefit analysis for evaluation of implications of different alternatives.

Prerequisites of the course:

Basic knowledge of intermediate level mathematics and physics is required.

Course Outline:

Nature of environment, project , stages of project and impact.

Introduction and Principle – purpose of EIA, Sustainable development and EIA. Origin and development of EIA

The EIA Process – methodologies and practice, Early stages-Screening, Scoping and consideration of alternatives Baseline studies, Impact identification and prediction, evaluation and mitigation – Environmental Management plan, Public consultation and participation, EIA presentation, The EIS review and decision making.

Post decision making EIA – monitoring and Audit. The Indian EIA regime – guidelines and notifications. Environmental priorities in India and sustainable development.

EIA case studies – River Valley Project, Township, Oil Refinery, Highway. Development issues in the Northeast India.

TextBooks:

1. Glasson, The rival and Chadwick, Introduction to Environmental Impact Assessment, Routledge, 2005
2. Morgan R. K., Environmental Impact Assessment -A Methodological Approach, Springer 1998
3. Carter E.L., Environmental Impact Assessment, McGraw-Hill Education, 1996
4. All guidelines and notifications of Government of India

Pedagogy:

Lectures, Assignments and presentations.

Time Plan

<i>Lecture No.</i>	<i>Topics</i>
<i>1</i>	Introduction and course overview
<i>2-4</i>	Nature of environment, project , stages of project and impact.
<i>5</i>	Introduction and Principle – purpose of EIA
<i>6-7</i>	Sustainable development and EIA
<i>8-9</i>	Origin and development of EIA
<i>UNIT TEST - 1</i>	
<i>10-11</i>	Environmental priorities in India and sustainable development
<i>12-13</i>	The EIA Process – methodologies and practice,
<i>UNIT TEST - 2</i>	
<i>14</i>	Early stages-Screening,
<i>15-17</i>	Scoping and consideration of alternatives Baseline studies
<i>MID TERM TEST</i>	
<i>17-19</i>	Impact identification and prediction
<i>20-23</i>	Evaluation and mitigation
<i>UNIT TEST – 3(ASSIGNMENT TYPE)</i>	
<i>24-25</i>	Environmental Management plan
<i>26-27</i>	Public consultation and participation, EIA presentation
<i>UNIT TEST - 4</i>	
<i>28</i>	The EIS review and decision making.
<i>29-31</i>	Post decision making EIA – monitoring and Audit
<i>32-33</i>	The Indian EIA regime – guidelines and notifications.
<i>34-36</i>	EIA case studies – River Valley Project, Township, Oil Refinery, Highway. Development issues in the Northeast India.
<i>END TERM TEST</i>	

Evaluation Plan

Test/ Assignments	Marks	Tentative Date
Unit Test – 1	20	3 rd to 4 th Week
Unit Test – 2	20	6 th week
Mid Term	30	9 th week
Unit Test – 3	20	12 th week
Unit Test – 4	20	14 th Week
End Term	45	17 th to 19 th week
Total	155	

Expected Outcome:

At the successful completion of this course, student will be able to carry out EIA studies in his choosen area of interest.