

**B. Sc. REGULAR PROGRAMME  
ENVIRONMENTAL SCIENCE  
(2019-20)**

**Semester VI: UGENS18CR106**

**Environment impact assessment, Environmental Education and laws**

**Credit I: Environmental Impact Assessment** **15 hours**

- 1.1 EIA: Concept, Components and Objectives
- 1.2 Need for Environmental Impact Assessment
- 1.3 Stages of EIA
- 1.4 Concept of Environment Impact Statement
- 1.5 EIA Methodology: Checklists and Matrices

**Credit II: Sustainable development** **15 hours**

- 2.1 EIA of hydroelectric power project
- 2.2 EIA of cement industries
- 2.3 Analysis of alternatives-Cost benefit analysis
- 2.4 Public participation
- 2.5 Concept of Eco-labelling and Eco-mark

**Credit III: Environmental Education** **15 hours**

- 3.1 Environmental Education: Goals, Objectives and Guiding principles
- 3.2 Benefits of Environmental education at the global level
- 3.3 Environmental education organizations, programmes and role of individual
- 3.4 National Environmental movements: Chipko and Narmada Andolan
- 3.5 Environmental ethics and awareness

**Credit IV: Environmental Laws and Policies** **15 hours**

- 4.1 Environmental protection act, 1986
- 4.2 Water Pollution act, 1974
- 4.3 Air Pollution act, 1981
- 4.4 Forest conservation act, 1980
- 4.5 J & K Wildlife (protection) act, 1978

**Credit V & VI: Laboratory course**

- 1. Case studies based on EIA of hydroelectric power project
- 2. Case studies based on EIA of cement industries
- 3. Case studies based on environmental laws

4. Environmental education (Seminar)
5. Visit to hydroelectric power plant
6. Visit to cement industry plant
7. Preparation of posters for environmental awareness
8. National environment case studies: Chipko movement and Narmada andolan
9. Study of green belt
10. Case study: Leopold matrix