



# DRAVID OPEN SECONDARY AND HIGHER SECONDARY EDUCATION COUNCIL

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## SYLLABUS ENVIRONMENTAL SCIENCE

### CLASS 12 ENVIRONMENTAL SCIENCE SYLLABUS

The environmental science themes are spread across these chapters:

1. Organisms and Populations
  - Population attributes (growth, birth rate, death rate, age distribution)
  - Population interactions (mutualism, competition, predation, parasitism)
  - Population regulation and demographic transition
2. Ecosystem
  - Structure and function of ecosystems
  - Energy flow, food chains/webs, productivity
  - Ecological pyramids
  - Nutrient cycling
  - Ecosystem services
3. Biodiversity and Conservation
  - Levels & value of biodiversity
  - Threats to biodiversity (e.g., endangered & extinct species)
  - Conservation strategies (in-situ and ex-situ)
4. Environmental Issues
  - Air pollution and its control
  - Water pollution and its control
  - Solid waste management
  - Agro-chemicals and effects
  - Radioactive waste
  - Greenhouse effect & global warming
  - Ozone depletion
  - Resource degradation & deforestation