

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: POLLUTION ECONOMICS

Code No.: WTR 320-2

Program: WATER RESOURCES

Semester:

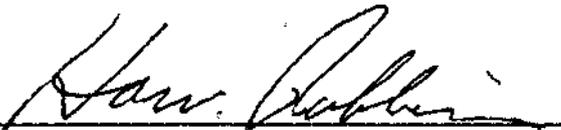
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Author: S. VERMA

New:

Revision:

APPROVED;

  
Chairperson

Date

WATER RESOURCES  
WTR 320-2  
POLLUTION ECONOMICS

Pollution Economics  
Course Name

WTR 320-2  
Course Number

OBJECTIVES:

1. Understanding of the concepts of pollution and waste.
2. Knowledge about approaches to attack a pollution problem from economics point of view.
3. Developing economic models for simple problems related to pollution.

EVALUATION:

Mid-term Examination	50%
Project Report	50%

To achieve the objectives specified for this course in the first half of the course students will be given the basic principles of pollution economics through a series of lectures. On completion this, students will be given an examination which will contribute 50% to the final mark.

In partial fulfillment of this course every student will be required to submit a project report on a topic related to the subject. The size of the report may not be more than fifteen typed pages. Based on the report every student will present a seminar in the class and invite questions from audience. The weightage of report in determining the final mark is 50%. Following criteria will be used in evaluating the project;

- a) Report
  - 1) Quality of report from subject matter point of view
  - 2) Presentation of the material in the report
  - 3) Accuracy, purpose and utility of the analysis
- b) Seminar
  - 1) Preparation and delivery
  - 2) Participation in discussion

WATER RESOURCES  
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TEXTBOOK(S):

Dales, J.H., (1968) Pollution property and prices. An essay in policy-making and economics. University of Toronto Press, Toronto

REFERENCES:

Pearce, D.W., (1976) Environmental Economics, Longman, New York

COURSE OUTLINES:

1. Pollution and Waste
  - environment pollution cycle
  - economic definition of waste
  - types of wastes
  - physical, chemical, biological nature of wastes
  - factors controlling the amount and quality of waste
2. Costs of Waste Disposal
  - pollution prevention costs
  - pollution costs
  - minimizing waste disposal costs
  - pollution prevention measures and costs
  - damage avoidance measures and costs
3. Economic Analysis of Pollution Problems
  - economic analysis of simplified problems
  - benefit cost analysis
  - benefit cost analysis for various combination of alternatives to solve a problem
  - economic analysis of actual problems
  - political solutions
4. Case Studies
  - acid rain
  - pulp and paper
  - steel industry
  - others