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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title; HAZARDOUS WASTE DISPOSAL

Code No. WTR 329-4

Program: WATER RESOURCES ENGINEERING TECHNOLOGY

Semester; VI

Date: MAY, 1986

Author; JOHN K. THEIL

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New: _____ Revision: X(1)

APPROVED:



Chairperson

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Date

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CALENDAR DESCRIPTION

HAZARDOUS WASTE DISPOSAL

WTR 329-4

Course Name

Course Number

PHILOSOPHY/GOALS ;

To assess and to determine industrial waste treatment and disposal techniques for industrial, hazardous and solid wastes.

METHOD OF ASSESSMENT (GRADING METHOD);

Assignments/Lab Work	25%	Grading
Mid-Term Examination	25%	
Final Examination	50%	
		A 80 - 100%
		B 70 - 79%
		C 60 - 69%

A passing grade will be based on a minimum composite grading of 60%. Students obtaining a composite grading of 55 to 59% may be allowed to complete a supplementary examination.

TEXTBOOK(S);

Solid Wastes; Engineering Principles and Management Issues, by G. Tchobanoglous, H. Theisen, R. Eliassen. McGraw-Hill Book Company.

Registration Guidance Manual for Generators of Liquid Industrial and Hazardous Waste; Ministry of the Environment.

REFERENCE TEXT(S);

Wastewater Treatment; by D. W. Sundstrom and H. E. Klei, Prentice-Hall, Inc.

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OBJECTIVES

The student will be able to:

1. Identify and classify liquid industrial and hazardous wastes according to current practices.
2. Identify the sources and types of solid wastes and the influencing factors related to physical and chemical composition and waste generation rates.
3. Describe on-site handling, storage and processing at the source; and the collection, transfer and transport of solid wastes.
4. Describe the main purposes of processing, and the techniques and the equipment involved for solid wastes.
5. Delineate the application of techniques and equipment for the recovery of resources, conversion products and energy.
6. Describe and apply the main aspects of the design and operation of sanitary landfills.
7. Evaluate leachate production and characteristics.
8. Determine leachate treatment alternatives.
9. Assess the processing, treatment and disposal of hazardous wastes.

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