

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

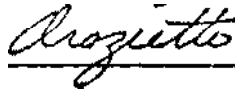
Course Title: CONSTRUCTION ESTIMATING
Code No. : SUR 245-4
Program: CONSTRUCTION
Semester: FOURTH
Date: MAY, 1983
Author: W. R. DAVIES

New:

Revision:

APPROVED:

Chairperson

A handwritten signature in cursive script, reading "Crozitto", is written over a horizontal line.

Date

PHILOSOPHY/GOALS:

- (1) To develop skill at placing a monetary value on proposed civil engineering works.
- (2) To develop an awareness of those factors that affect the cost of engineering work.
- (3) To encourage the habit of systematic record keeping.

METHOD OF ASSESSMENT:

Equipment	10
Handling and Transportation	10
Excavation	15
Unit Costs	20
Concrete	15
Project B.2	30
	100%

TEXT:

Estimating Construction Costs - Perifoy
- McGraw-Hill

REFERENCE

Construction Estimating - Pulver
- McGraw-Hill

Continuous Reading of Engineering
New Record Cost Data

Topic No.	Periods	Topic Description	References
		<u>Introduction to Estimating</u>	
		Types of estimates Check lists Taxes, Overheads, Profit Insurance, Bonds	
		<u>Equipment Costs</u>	
		Depreciation Maintenance fuel spaces Operation	
		<u>Handling and Transportation</u>	
		Manual Mechanical	
		<u>Excavation and Earthworks</u>	
		Manual Mechanical - Trenching - Bulk Rock - Explosives Dewatering	
		<u>Highways and Pavements</u>	
		Site clearing Total cost concrete highway Total cost asphalt highway	
		<u>Concrete Construction</u>	
		Formwork Beam and slab Rebar Miscellaneous structures Floors and Floor Finishes	
		Manual Mechanical Tiling Metal decking Composite deck	

topic No.	Periods	Topic Description	References
8	4	<u>Unit Prices</u> Industrial Plants Highway Structures Dams and Earthworks	
9	4	<u>Sub-Contacts</u> Bid Invitation Bid Analysis	
10	12	Project^ Assembly of total project Costs	