SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title:	STRUCTURAL TIMBER DESIGN	
Code No.:	ARC 311-3	
Program:	CIVIL AND ARCHITECTURAL TECHNOLOGY	
Semester:	FIVE	
Date:	FEBRUARY, 1985	
Author:	G. Frech	

New: x Revision:

APPROVED:

de Arguetto Chairperson

Date

STRUCTURAL TIMBER DESIGN

ARC 311-3

Course Name

Course Number

PHILOSOPHY/GOALS:

To equip the student to work and design in timber, using standard procedures and theory.

METHOD OF ASSESSMENT (GRADING METHOD):

A	-	85	-	100%
В	-	75	-	84%
С	-	60	-	74%
R	-	0	-	59%

Evaluation will be based on tests, mid-term test and final exam.

Term work - 50% Final exam- 50%

100%

TEXTBOOK(S):

Timber Design Manual (Text to be choosen by instructor) 2

3

4

Classificiation of Wood

Density Defects Classification Dimensions Working Stresses Fire Ratings

Beams

- 3 -

Design of End Bearing Notched Beams Built Up Flitched Keyed Laterally Unsupported

Plank and Laminated Floors

Design Deflection

Wood Columns Design

Square Round Spaced Built Up With Mech. Fasteners Glue Laminated False Work Axial Compression & Bending Eccentric Loads

Connectors

Bolted Joints Direction of Load on Grain Design Placement Timber Connector Types Stresses Allowable Loads Joint Design Nails

Trusses

Split Ring Connections Plate Connections Member Design

6

TOPIC NO.	POS.	TOPIC INFORMATION
7		Laminated
		Glued Laminated Members Stresses in Laminated Types Arches Design of Laminated Beams
8		Design of Laminated Arches
0		Details to Suit Throughout The Cour