SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title:	TELECOMMUNICATIONS AND FUTURISTICS			
Code No.:	EDP 315-4			
Program:	ELECTRONIC DATA PROCESSING			
Semester:	estrences or the information society and the appropriate or the societies of the changing environments.			
Date:	SEPTEMBER 1984			
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APPROVED:	Chairperson By .06.11			

TELECOMMUNICATIONS & FUTURISTICS

EDP 315-4 Course Number

Course Name

COURSE DESCRIPTION:

A study of the process of transmission, processing and distribution of information using computers and telecommunication hardware and facilities. Future implications will be introduced including an investigation of TELIDON and its implications for the information society.

AIM:

To familiarize students with concepts and terminology as they apply to the expanding field of communications using computers and telecommunication technology. The course is also aimed at providing students with an awareness of the information society and the applications of telecommunications theory in this changing environment.

STUDENT EVALUATION:

Term Test and Quizzes Projects, Participation, Attendance	80%	<u>OR</u>	Term Tests Projects, etc. Final Test	40% 20% 40%
	100%			100%

The student will be responsible for reading the textbook prior to lectures. A final test covering the entire semester's work can be written only if:

- 1) student regularly attends classes (minimum 75% attendance);
- 2) to substitute for an I or O grade on any individual test;
- 3) the achieved grade over the semester is over 40%.

GRADING:

A - 80 to 100% B - 70 to 79% C - 55 to 69% MAY WRITE FINAL IF 40 to 55% R - under 40%

TEXTBOOK:

Data Communications and Teleprocessing Systems
Trevor Housley, Prentice Hall, 1979

REFERENCES:

Introduction to Computers and Data Processing - CH8
Shelly and Cashman

J. Frates and Wm. Moldrup

Introduction to Business Telecommunications
George W. Reynolds

Data Communications Loomis

SPECIFIC OBJECTIVES

TOPIC		REFERENCE	CONTENT		
1 Shelly & Cashman Chapter 8			Introduction to Telecommunications		
	Chapter 8	 WHAT, WHY, WHERE of tele- communications systems 			
		Lecture Notes	 definition and characteristics the enhancements it provides to business operations applications: internal and external 		
			2) Basic Configuration		
			 transmitter modem channels (data links) C.C.U. (communication control unit) function of the computer 		
			3) Overview of Terminology		
			per speedsmodes of transmissionline types and configurationtypes of networks		
2			Basic Theory		
		Chapter 1	 transmission definitions transmission codes and control characters transmission modes 		
3 Housley Chapter 2		Network Components and Configurations			
		Chapter 2	hardware: terminals, modems, multiplexers, interfaces, etc.configurations: star, ring, pt-to-pt and multipoint, etc.		
4		Housley	Error Detection Techniques		
	Chapter 3	detecting errorsmethods of error control			

TOPIC	REFERENCE	CONTENT
5	Housley Chapter 4	Network Protocols and Line Control Procedures
		architectureprotocolspolling techniques, etc.
6	Housley Chapter 5	Common Carrier Facilities
		networkspacket switching, etc.
7	Housley Chapter 6	System Planning Considerations
		management concernsperformance criteria
8	Industry Periodicals & Research Papers Computers & Life	Information Society
		 TELIDON office automation electronic mail micros and home computers integration of voice, data and image systems
9	Industry Periodicals & Research Papers	Special Applications
	Computers & Life	- ROBOTICS, Process Control - CAD/CAM - CAI, CMI - EFT - Medicine, etc the Fourth and Fifth Generation Software

