

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

COURSE OULITNE

COURSE OUTLINE: AUTOMATED ELECTRICAL SYSTEMS
CODE NO.: ELR ~~xxx~~-6 320-6
PROGRAM: ELECTRICAL TECHNOLOGY
SEMESTER: FIVE
DATE: SEPTEMBER 1988
AUTHOR: ENO LUDAVICIUS

NEW: _____ REV.: X

APPROVED:

J.P. Crozuth
CHAIRPERSON

88/05/20
DATE

CALENDAR DESCRIPTION

AUTOMATED ELECTRICAL SYSTEMS
COURSE NAME

ELR xxx - 6
COURSE NUMBER

PHILOSOPHY/GOALS:

THE STUDENT WILL DEVELOP THE ABILITY TO USE THE COMPUTER TO DRAW ELECTRICAL & ELECTRONIC SCHEMATICS USING AUTOCAD. THE STUDENT WILL USE ADVANCED PLC TECHNIQUES & SOFTWARE TO DESIGN & DOCUMENT AUTOMATED ELECTRICAL SYSTEMS. THE STUDENT WILL ALSO INTERFACE PLC CONTROL TO A CAM ENVIRONMENT WITH AN INDUSTRIAL ROBOT. THIS COURSE WILL FAMILIARIZE THE STUDENT WITH INDUSTRIAL AUTOMATION OF ELECTRICAL, HYDRAULIC & PNEUMATIC SYSTEMS.

METHOD OF ASSESSMENT (GRADING METHOD):

THE STUDENT WILL BE ASSESSED IN THE FOLLOWING MANNER:

- 1) THREE WRITTEN TESTS WORTH 17% EACH.
- 2) ASSIGNMENTS & PROJECTS DEALING WITH THE APPLICATION OF THE SOFTWARE PROGRAMS WORTH 49%.

TEXTBOOK(S):

- 1) INSIDE AUTOCAD - D.RAKER & H.RICE
- 2) AMATROL MANUALS - HERCULES ROBOT & WORKCELL
- 3) TAYLOR LADDER LOGIC DEVELOPMENT SERIES FOR PLC
- 4) A&B - PROGRAMMING & OPERATIONS MANUAL