

Telecommunications Engineering Technology

The Telecommunications Engineering Technology Program is designed to provide graduates with the skills and knowledge to work in modern communication systems using digital and fiber optics principles. Graduates will have hands on experience in maintaining and aligning communications systems as well as the ability to design systems using established methods. Graduates of this three year program receive the Diploma of Telecommunications Engineering Technology.

ACCREDITATION

This program is accredited by the Canadian Technology Accreditation Board under the mandate of the Canadian Council of Technicians and Technologists.

Note: This program may not be suitable for applicants who do not have normal colour perception.

OBJECTIVES

1. To develop an awareness of and concern for good safety practices and procedures in the workplace.
2. To provide a basic knowledge of modern equipment, instrumentation techniques and electronic devices associated with the general field of electronics.
3. To develop a high level of skill and knowledge in the application of basic electronic principles to the operation, testing and maintenance of electronic equipment.

CURRICULUM

General Education consisting of Communication Skills (oral and written), Mathematics, Physics, Chemistry, Electrotechnology, Computers, Engineering Graphics, Technology Awareness, and Student Success.

Extensive training in the theory and principles of electronics.

Specialized training in the field of software engineering. Laboratory and field experience in the application of all facets of electronics.

CURRENT AND FUTURE EMPLOYMENT OPPORTUNITIES

Job prospects for the telecommunications industry are expected to be strong in the foreseeable future. The Institute for Business Trends Analysis in a report titled Employment Trends in the Telecommunications Industry Fall 2001 noted the following findings:

"Job and career opportunities in the telecommunications industry for support and professional staff is strong. This is true even though the consequences of continuing regulatory and technological change remain unclear."

"The demand for "craft" and professional staff exceeds supply by some significant but unknown amount. Among craft positions, workers with cable splicing skills are in great demand, and among professional positions, workers in pre-sales engineering are very much in demand."

DIPLOMA

- Three years
- September start
- Ridge Road Campus (St. John's)

COURSES

CODE	TITLE	Hrs/wk		
Semester 1 and 2 - Refer to Engineering Technology (First Year)				
Semester 3 (Technical Intersession I)				
C11310	Electrical/Electronic Fabrication Techniques	3	4	5
MP2140	Circuit Analysis I	4	6	4
C11100	Electronic Instrumentation	3	4	4
Semester 4				
DR2410	Electronic CAD I	2	1	2
MA2100	Mathematics	5	5	0
AE2320	Analog Electronics	5	4	3
DP1110	Digital Electronics	4	3	2
CT2300	Applied Programming	4	3	2
CE2270	Electronic Analog Communications	4	3	2
Semester 5				
MP2141	Applied Electrical/Electronics Mathematics	3	3	0
CM2300	Report Writing	2	2	0
AE2321	Analog Electronics	5	4	3
DP2410	Digital / Microprocessors	4	3	2
CE2730	Electromagnetics for Electronic Communications	4	3	2
DP3410	Digital Communications	4	3	2
EC1700	Engineering Economics	2	2	0
Semester 6 (Technical Intersession II)				
CM2200	Oral Communications	2	4	0
DP3200	Embedded Controller Applications	4	6	4
CE3430	Network Cabling	4	6	6
Semester 7				
MP3140	Circuit Analysis III	3	3	0
PR2600	Technical Thesis Seminar	0	0	3
AE3110	Analog IC's	4	3	3
DP3310	Microprocessor Interfacing	4	3	3
CE3160	L2-L4 Switching	5	4	3
CR2430	TCP / IP Protocols	5	4	3
Semester 8				
PR2601	Technical Thesis	3	0	3
CE3200	Digital Data Carrier Networks	4	3	2
CE3630	VOIP	5	4	3
CE3510	Microwave Circuit Design	4	3	2
CE3100	Communication Systems	4	3	2
CG3400	Engineering Management	3	3	0

