

Year 1/Level 1 (23 hrs) Sept/Jan/May	Year 1/Level 2 (23 hrs) Sept/Jan/May	Year 2/Level 3 (23 hrs) Sept/Jan/May	Year 2/Level 4 (24 hrs) Sept/Jan/May	Year 3/Level 5 (22 hrs) Sept/Jan/May	Year 3/Level 6 (22 hrs) Sept/Jan/May
ETY155 (3/2) Electricity	APL255 (2/2) Introduction to Microcomputing Concepts Prerequisite ICO155	HSI255 (2/2) Hardware and Software Interfacing Prerequisite ETY155, PRG255	CLD500 (2/2) Cloud Computing Fundamentals Prerequisite NET455	ETD555 (2/2) Engineering Technology and Design Prerequisite ECP455	TPJ655 (2/2) Technical Project Prerequisite MCO556, TEC400, ETD555
COM101 (3/0) or COM111 (6/0) Communicating Across Contexts	APL355 (2/2) Intermediate Computing Concepts Prerequisite ICO155	LNX255 (2/2) Introduction to Linux Prerequisite APL255, APL355	ECP455 (2/2) Electronics Engineering Codes and Practices Prerequisite HSI255	MCO556 (2/2) ARM Microcontroller for Real-Time Embedded Applications Prerequisite MCO455	AMT453 (4/0) Advanced Mathematics Prerequisite MTH356
LIN155 (1/2) Electronic Lab Instrumentation and Techniques	DGS266 (2/2) Digital Electronics and Introduction to PLC Prerequisites ETY155, PRG155	MCO455 (2/2) Microcontroller Concepts Prerequisite DGS266	MTH356 (4/0) Mathematics – Introductory Calculus and Statistics Prerequisite MTH255	TEC400 (3/0) Technical Communications Prerequisite COM101 or COM111	Professional Option*
PRG155 (2/2) Introduction to Programming Using ‘C’	IPS255 (3/0) Interpersonal Skills in the Engineering Workplace Prerequisite LIN155	NET455 (2/2) Networking Essentials Prerequisites APL255, APL355	PRG550 (2/2) Programming Python with the Raspberry Pi Prerequisite PRG355	Professional Option*	Professional Option*
MTH147 (6/0) Mathematics with Foundations	MTH255 (4/0) Mathematics Prerequisite MTH147	PRG355 (2/2) Object-Oriented Programming Using C++ Prerequisite PRG255	NSP655 (1/3) Network Servers and Peripherals Prerequisites NET455, LNX255	Professional Option*	Professional Option*
ICO155 (2/0) Introduction to Computers	PRG255 (2/2) Advanced Programming Using “C” Prerequisite PRG155	General Education Elective (3/0)	WCM555 (2/2) Wireless Communication and Microcontrollers Prerequisite MCO455	Professional Option*	General Education Elective (3/0)

*Visit [ITAS Page](#) for the list of the professional option courses.