

Computer Engineering

Prog.	Year	Course Code	Course Name	Prerequisites	Category						
					X	Y	Z	M	J	K	L
Bachelor of Technology Honours in Engineering Degree	Higher Diploma in Technology	1	MPZ3231	Engineering Mathematics IA	None			6			
			MPZ3132	Engineering Mathematics IB	MPZ3231(CR)			3			
			MPZ4140	Discrete Mathematics I	None			3			
			MEX3211	Communicating Engineering Information	None	6					
			MEX3212	Basic Thermo Fluids	None	6					
			ECX3150	Electronics I	ECX3210 (CR)	3					
			ECX3210	Electro Techniques	MPZ3231(CR)	6					
			ECX 3233	Communication & IT	ECX3210(CR)	6					
	2		MPZ4230	Engineering Mathematics II	MPZ3231(EL), MPZ3132(EL)			6			
			ECX 3231	Electrical Circuits & Measurements	ECX3210(EL), MPZ3231(EL), MEX3211(EL)	6					
			ECX 3232	Electrical Power	ECX3210(EL), MPZ3231(EL), MEX3211(EL)	6					
			ECX4150	Electronics II	ECX3210(EL), ECX3150(EL), MPZ3231(EL), MEX3211(EL)	3					
			ECX4235	Data Structures and Algorithms	ECX3233(CR), MPZ3231(EL), MPZ4140(CR), MEX3211(P)	6					
			ECX4236	Microprocessors and Interfacing	ECX3210(P), MPZ3231(P), MEX3211(P), [(ECX3233(EL) and {ECX3150(EL) and ECX4150(CR)}) or ECX3234(EL) or MEX3272(EL)]	6					
			ECX4247	Software Engineering	ECX3233(EL), MEX3211(P), MPZ3231(EL), ECX4235(CR)	6					
	Minimum credits for the Higher Diploma in Technology					90	60 ¹	0	9	0	0
	3		MPZ5230	Engineering Mathematics III	MPZ3231(P), MPZ3132(P), MPZ4230(EL)			6			
			MPZ5140	Discrete Mathematics II	MPZ4140(EL)			3			
			ECX5234	Data Communications	ECX3233(P), MPZ3231(P), MPZ3132(P), MEX3211(P)	6					
			ECX5235	Operating systems	ECX3233(P), MEX3211(P), MPZ4140(EL), MPZ5140(CR), ECX4235(EL), MPZ4230(EL), ECX5236(CR)	6					
			ECX5236	Computer Architecture	ECX3233(P), MPZ3231(P), MPZ3132(P), MEX3211(P), ECX4236(EL)	6					
	4		ECX6151	Digital Electronic systems	ECX3150(P), ECX4150 (P), MPZ3231(P), MPZ3132(P), MEX3211(P), [ECX4236(EL) or ECX4230(EL)]	3					
			ECX6235	Compiler Design	ECX4235(P), ECX5235(EL), ECX5236(EL), MPZ4140(P), MPZ5140(EL)	6					
			ECX6236	Processor design	ECX3233(P), ECX4236(P), ECX5236(EL), ECX6151(CR)	6					
		<i>Select only one</i>									
			ECY6595	Individual project - Type B (Computer, Electrical, Electronic and Communication)	Pass in 18 credits at Level 5 or above from X category and Eligibility in additional 18 credits at Level 5 or above		15				
			ECY6496	Group project (Computer, Electrical, Electronic and Communication)	Pass in 18 credits at Level 5 or above from X category and Eligibility in additional 18 credits at Level 5 or above		12				
	Minimum credits for the Bachelor of Technology Honours in Engineering Degree					177 ⁵	114 ²	12 ³	21 ⁴	9	9

¹ 60 credits of which at least 18 at level 4 or above

² subjected to a minimum of 45 at levels 5 and 6, of which at least 18 at level 6

³ subjected to a minimum of 12 at level 6

⁴ subjected to a minimum of 6 at level 6

⁵ subjected to a minimum of 84 at levels 5 and 6, of which at least 36 from level 6

* For the Higher Diploma this could be replaced with equal number of credits at Level 4 or above.