

## Electrical 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				
			MEX3211	Communicating Engineering Information	None	6						
			MEX3235	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						
			ECX4150	Electronics II	ECX3210(EL), ECX3150(EL), MPZ3231(EL), MEX3211(EL)	3						
			ECX4234	Electrical installations	[ECX3210(P), MEX3211(P), ECX3232(CR)] or [ECX3210(P), MEX3211(P), ECX4252(CR)]	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						
			ECX4248	Electrical machines	ECX3210(P), MPZ3231(P), MPZ3132(EL), MEX3211(P), ECX4252(CR)	6						
			ECX4252	Power systems I	ECX3210(P), MPZ3231(P), MPZ3132(EL), MEX3211(P)	6						
			MEX4243	Control Systems Engineering	MPZ4230(CR), ECX3210(P), MEX3212(P) or MEX3235(P), MEX3211(P), MPZ3231(P), MPZ3132(P) and pass in further 18 credits	6						
		<b>Minimum credits for the Higher Diploma in Technology</b>										
						90	60 <sup>1</sup>	0	9	0	0	0
		3	MPZ5230	Engineering Mathematics III	MPZ3231(P), MPZ3132(P), MPZ4230(EL)			6				
			ECX5231	Network theory	MPZ3132(P), MPZ3231(P), ECX3231(P), MEX3211(P), MPZ4230(EL)	6						
			ECX5238	High voltage engineering & electrical machines	MPZ3231(P), MPZ3132(P), MEX3211(P), ECX4248(EL), ECX4252(EL)	6						
			ECX5332	Power systems II	MPZ3231(P), MPZ3132(P), ECX3210(P), MEX3211(P), ECX4252(EL), ECX4248(EL)	9						
		4	ECX6241	Field theory	MPZ4230(P), MPZ5230(CR)	6						
			ECX6332	Power systems planning	ECX4252(P), MEX4243(EL), ECX5332(EL)	9						
			<b>Select only one</b>									
			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					
		<b>Minimum credits for the Bachelor of Technology Honours in Engineering Degree</b>										
						177 <sup>5</sup>	114 <sup>2</sup>	12 <sup>3</sup>	21 <sup>4</sup>	9	9	0

<sup>1</sup> 60 credits of which at least 18 at level 4 or above

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

<sup>3</sup> subjected to a minimum of 12 at level 6

<sup>4</sup> subjected to a minimum of 6 at level 6

<sup>5</sup> 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.