

## Civil 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					
			ECX3210	Electro Techniques	MPZ3231(CR)	6							
			MEX3211	Communicating Engineering Information	None	6							
			MEX3212	Basic thermo fluids	None	6							
			CEX3230	Construction Materials	None	6							
			CEX3231	Structural Analysis and Design I	MEX3211(CR), CEX3230(CR), CEX3234(CR)	6							
			CEX3234	Strength of Materials	MPZ3231(CR)	6							
		2	MPZ4230	Engineering Mathematics II*	MPZ3231(EL), MPZ3132(EL)			6					
			CEX3232	Hydraulics & Hydrology	MEX3212(EL), MPZ3231(EL)	6							
			CEX3233	Surveying I	MEX3211(EL)	6							
			CEX4230	Soil Mechanics & Introduction to Rock Mechanics	CEX3232(CR), CEX3234(P)	6							
			CEX4231	Structural Analysis and Design II	MPZ3231(P), MEX3211(P), CEX3230(P), CEX3234(P), CEX3231(EL),	6							
			CEX4232	Construction Engineering & Planning	CEX3230(P), MEX3211(P), MPZ3231(P) ECX3210(P)	6							
		Minimum credits for the Higher Diploma in Technology					90	60 <sup>1</sup>	0	9	0	0	0
		3	MPZ5230	Engineering Mathematics III	MPZ3231(P),MPZ3132(P),MPZ4230(EL)			6					
			CEX5230	Surveying II	MEX3211(P), CEX3233(P), MPZ3231(P), 18 Cr(P) @ L4 <sup>^</sup>	6							
			CEX5231	Mechanics of Fluids	CEX3232(P), MEX3212(P), MPZ5230(CR)	6							
			CEX5232	Engineering Geology	CEX3230(P), CEX4230(CR)	6							
			CEX5233	Structural Analysis	CEX3231(P), CEX4231(EL)	6							
			CEX6230	Geo-technics	CEX4230(P),CEX5232(CR)	6							
			4	CEX6331	Construction Engineering & Management	CEX4231(P), CEX4232(P)	9						
		CEX6332		Structural Design	CEX4231(P), CEX5233(EL)	9							
		CEX6233		Environmental Engineering	CEX3232(P), CEX4230(EL), CEX4232(EL)	6							
		Select one from:											
		CEY6595		Individual Project - Type B (Civil)	Pass in 18 credits in X category at Level 5 or above & Eligibility in 18 credits at level 5 or above		15						
		CEY6496		Group Project (Civil)	Pass in 18 credits in X category at Level 5 or above & Eligibility in 18 credits at level 5 or above		12						
		CEY6197		Project Identification & literature survey	Pass in 9 credits at Level 5 or above in X category		3						
		CEY6498		and									
			Individual Project - Type A (Civil)	CEY6197(CR), Pass in 18 credits in X category at Level 5 or above & Eligibility in 18 credits at level 5 or above		12							
		Minimum credits for the Bachelor of Technology Honours in Engineering Degree					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.