

Curriculum: Civil Engineering (CE) Field

Subject Code	Subject Name	Category ^{\$}	GPA Credits	NGPA Credits	Total Contact hours (Weeks)
Certificate Level (CL) – Stage I					
<i>Semester 1</i>					
MA1001	Engineering Mathematics I	CC	4		60
HM1001	Language Skills Development	CC		4	60
EE1001	Basic Electrical Engineering	CC	4		60
ET1001	Introduction to ICT	CC	4		60
ME1001	Mechanics and Properties of Materials	CC	4		60
ME1002	Engineering Mechanics	CC	4		60
Total Credits for CL Stage I			20	4	
Certificate Level – Stage II					
<i>Semester 2</i>					
MA 1002	Engineering Mathematics II	CC	4		60
ME1003	Presentation of Engineering Information	CC	3		45
ME1004	Engineering in Context	CC	3		45
ME1005	Thermodynamics and Fluid Mechanics	CC	4		60
CE1001	Civil Engineering Measurements	FC	4		60
CE1002	Building Construction	FC	4		60
Total credits for CL stage II			22		
Total Credits for Certificate Level			42	4	
Advanced Diploma Level (ADL) – Stage I					
<i>Semester 3</i>					
MA2001	Engineering Mathematics III	CC	4		60
CE2001	Basic Structural Design	FC	4		60
CE2002	Analysis and Modeling of structures	FC	4		60
CE2003	Soil Mechanics and Engineering Geology	FC	4		60
CE2004	Fluid Mechanics	FC	4		60
Total Credits for Semester 3			20		
Advanced Diploma Level – Stage I					
<i>Semester 4</i>					
MN2001	Management I	CC	4		60
CE2005	Construction Technology	FC	4		60
CE2006	Advanced Surveying	FC	4		60
CE2080	Industrial Training I	FC		3	(12 wks)
Total Credits for Semester 4			12	3	
Advanced Diploma Level – Stage II					
<i>Semester 5</i>					
MN3001	Management II	CC	4		60
HM3001	Humanities and Social Science	CC	4		60
CE3001	Reinforced Concrete and Masonry Design	FC	4		60
CE3002	Hydraulic Engineering and Water Resources	FC	4		60
CE3003	Environmental Science and Engineering	FC	2		30

Total Credits for Semester 5			18		
Advanced Diploma Level – Stage II					
<i>Semester 6</i>					
CE3004	Geotechnical Engineering	FC	4		60
CE3005	Construction Management	FC	4		60
CE3070	Survey Camp	FC	2		(2 wks)
CE3080	Industrial Training II	FC		3	(12 wks)
CE3090	Group Project	FC	4		(4 wks)
Total Credits for Semester 6			14	3	
Total credits for ADL			64	6	
Graduate Diploma Level (GDL)					
<i>Semester 7</i>					
CE4090	#Capstone Project (Comprehensive Design Project) [Continuing to Semester 8]	FC	2		(2 wks)
CE4091	#Individual Research Project [Continuing to Semester 8]	FC	1		(1 wks)
Select minimum 16 Credits from the following Field Electives					
CE4002	Computational Mechanics	FE	4		60
CE4003	Irrigation Engineering	FE	4		60
CE4004	Highway and Traffic Engineering	FE	4		60
CE4005	Advanced Structural Design	FE	4		60
CE4006	Concrete Technology	FE	4		60
CE4007	Coastal and Port Engineering	FE	4		60
CE4008	Environmental Engineering	FE	4		60
Graduate Diploma Level					
<i>Semester 8</i>					
MN4001	Management III	CC	4		60
CE4001	Structural Steel and Pre-stressed Concrete Design	FC	4		60
CE4090	#Capstone Project (Comprehensive Design Project) [Continuing from Semester 7]	FC	4		(4 wks)
CE4091	#Individual Research Project [Continuing from Semester 7]	FC	3		(3 wks)
Total Number of Credits for GDL					
			34		

\$ Note: Module Categories: CC – Common Compulsory, FC – Field Compulsory and FE – Field Elective

Note: Capstone Project carries 6 credits and Research Project carries 4 credits. These are carried out for 2 Semesters (Semesters 7 and 8), and students are continuously assessed. Final assessment is at the end of Semester 8. Break-up of credit load between the two semesters is only for guidance. Credits are awarded only on successful completion of the Final assessment.