

Schedule of courses offered

**Table 1 - Certificate in Engineering Technology Courses
Elective Foundation Courses**

CODE	COURSE TITLE	SEE NOTE 1	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>ONE only foundation course can be used for credit towards award of a certificate</i>					
CET2.001	Core Engineering Skills	E	2	15	
CET2.002	Core Skills (Civil & Highway)	E	2	15	
CET3.001	Introduction to CAD	E	3	15	
CET3.002	Mathematics (Introduction)	E	3	15	
Total Credits that can be used for award of this certificate				15	

Note: Not all foundation or strand electives will be offered in any one year. Courses will only be offered if there is sufficient demand to ensure viability.

Strand A – Core Engineering Courses

CODE	COURSE TITLE	C OR E ¹	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>Students must complete the compulsory course plus at least TWO strand electives</i>					
CET4.113	Technical Literacy	C	4	15	
CET4.111	Engineering Fundamentals	E	4	15	CET3.002 - Co
CET4.112	Mathematics 1	E	4	15	CET3.002 - Pre
CET4.211	Materials (Civil)	E	4	15	
CET6.101	Engineering Management	E	6	15	
Total Strand A Credits Required				45 or 60	<i>Note 2 Below</i>

Note¹: Code Key: C=Compulsory; E=Elective..

Note²: Students may select ONE Elective Foundation course plus THREE Strand A courses OR FOUR Strand A courses - a total of 60 credits is required including the Strand Compulsory course.

Strand B – Highway Engineering Courses

CODE	COURSE TITLE	C OR E ¹	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>Students must complete the compulsory course plus at least TWO strand electives</i>					
CET5.204	Highway Engineering 1	C	5	15	CET2.002 – Co ³
CET4.212	Land Surveying 1	E	4	15	CET2.002 – Co ³
CET5.207	Geotechnical Engineering 1	E	5	15	CET2.002 – Co ³
CET6.101	Engineering Management (Civil)	E	6	15	
CET6.202	Highway Engineering 2	E	6	15	CET5.204 - Pre
Total Strand B Credits Required				45 or 60	<i>Note 2 Below</i>

Note¹: Code Key: C=Compulsory; E=Elective..

Note²: Students may select ONE Elective Foundation course plus THREE Strand B courses OR FOUR Strand B courses - a total of 60 credits is required including the Strand Compulsory course.

Note³: Applicants who can provide evidence of appropriate prior learning and/or work experience can, with the approval of the Programme Manager, be exempted from this co-requisite requirement.

Strand C – Civil Engineering Courses

CODE	COURSE TITLE	C OR E ¹	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>Students must complete at least THREE of the following strand electives</i>					
CET4.211	Materials (Civil)	E	4	15	
CET4.212	Land Surveying 1	E	4	15	CET2.002- Co ³
CET5.207	Geotechnical Engineering 1	E	5	15	CET2.002 – Co ³
CET4.215	Civil Construction Supervision	E	4	15	
CET5.201	Structures 1	E	5	15	CET4.111 - Pre
CET5.202	Civil and Structural Drawing	E	5	15	CET4.113 - Pre
CET5.203	Hydraulics (Civil)	E	5	15	CET4.112 - Pre
CET6.101	Engineering Management	E	6	15	
Total Strand C Credits Required				45 or 60 <small>Note 2 Below</small>	

Note¹: Code Key: C=Compulsory; E=Elective.

Note²: Students may select ONE Elective Foundation course plus THREE Strand C courses OR FOUR Strand C courses - a total of 60 credits is required.

Note³: Applicants who can provide evidence of appropriate prior learning and/or work experience can, with the approval of the Programme Manager, be exempted from this co-requisite requirement.

Strand D – Water Utilities Engineering Courses

CODE	COURSE TITLE	C OR E ¹	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>Students must complete the compulsory course plus at least TWO strand electives</i>					
CET4.213	Core Engineering Skills (Water)	C	4	15	
CET4.214	Water & Wastewater (Introduction)	E	4	15	
CET6.205	Water & Wastewater Systems	E	6	15	CET4.213 – Pre CET4.214 - Pre
CET6.206	Water & Waste Management	E	6	15	CET4.214 - Pre
CET6.101	Engineering Management	E	6	15	
Total Strand D Credits Required				45 or 60 <small>Note 2 Below</small>	

Note¹: Code Key: C=Compulsory; E=Elective.

Note²: Students may select ONE Elective⁴ from within the Programme, plus THREE Strand D courses OR FOUR Strand D courses - a total of 60 credits is required including the Strand Compulsory course.

Note⁴: This elective can, with the approval of the Programme Manager, be selected from the Foundation courses or any of the other Strands with a coherent relationship with Strand D study Programme.