

## 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	
<b>Total Credits that can be used for award of this certificate</b>				<b>15</b>	

**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 <sup>1</sup>	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>Students must complete the compulsory course plus at least TWO strand electives</i>					
<b>CET4.103</b>	<b>Technical Literacy</b>	<b>C</b>	<b>4</b>	<b>15</b>	
CET4.101	Engineering Fundamentals	E	4	15	CET3.002 - Co
CET4.102	Mathematics 1	E	4	15	CET3.002 - Pre
CET4.201	Materials (Civil)	E	4	15	
<b>Total Strand A Credits Required</b>				<b>45 or 60</b>	<sup>Note 2 Below</sup>

**Note<sup>1</sup>:** Code Key: C=Compulsory; E=Elective..

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

**Note<sup>1</sup>:** Code Key: C=Compulsory; E=Elective..

**Note<sup>2</sup>:** 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.

**Note<sup>3</sup>:** 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 <sup>1</sup>	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>Students must complete at least THREE of the following strand electives</i>					
CET4.201	Materials (Civil)	E	4	15	
CET4.202	Land Surveying 1	E	4	15	CET2.002- Co <sup>3</sup>
CET5.207	Geotechnical Engineering 1	E	5	15	CET2.002 – Co <sup>3</sup>
CET4.211	Civil Construction Supervision	E	4	15	
CET5.201	Structures 1	E	5	15	CET4.101 - Pre
CET5.202	Civil and Structural Drawing	E	5	15	CET4.103 - Pre
<b>Total Strand B Credits Required</b>				<b>45 or 60</b> <small>Note 2 Below</small>	

**Note<sup>1</sup>:** Code Key: C=Compulsory; E=Elective.

**Note<sup>2</sup>:** Students may select ONE Elective Foundation course plus THREE Strand C courses OR FOUR Strand C courses - a total of 60 credits is required.

**Note<sup>3</sup>:** 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 <sup>1</sup>	LEVEL	CREDITS	PRE OR CO REQUISITES
<i>Students must complete the compulsory course plus at least TWO strand electives</i>					
<b>CET4.212</b>	<b>Core Engineering Skills (Water)</b>	<b>C</b>	<b>4</b>	<b>15</b>	
CET4.213	Water & Wastewater (Introduction)	E	4	15	
CET6.205	Water & Wastewater Systems	E	6	15	CET4.212 – Pre CET4.213 - Pre
CET6.206	Water & Waste Management	E	6	15	CET4.213 - Pre
<b>Total Strand D Credits Required</b>				<b>45 or 60</b> <small>Note 2 Below</small>	

**Note<sup>1</sup>:** Code Key: C=Compulsory; E=Elective.

**Note<sup>2</sup>:** Students may select ONE Elective<sup>4</sup> 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.

**Note<sup>4</sup>** 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.