

## St Clements University Certificate/ Diploma / Advanced Diploma /Associate Degree in General Engineering Practice

This is a mixed discipline engineering practice study program.

### Course + Credit Outlines

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#### Entry--- Year 9

#### YEAR 10 Certificate II in Work Place English & Pre-vocational Engineering (6 Credits)

		Credits
WENG 1	Workplace English 1	1
CGVE 401A	Year 10 Maths	1
CGVE 402A	Year 10 Physics	1
CGVE 403A	Year 10 Information Processing	1
CGVE 404A	Year 10 Science	1
CGVE 406A	Year 10 Chemistry	1
		<b>6 credits</b>

#### Year 11 Certificate III in Work Place English & Basic Engineering (9 Credits)

		Credits
WENG 2	Workplace English 2	1
CGVE 401B	Year 11/12 Maths	1
CGVE 402B	Year 11/12 Physics	1
CGVE 403B	Year 11/12 Software Design	1
CGVE 404B	Year 11/12 Science	1
CGVE 405B	Year 11+12 Design & Technology	1
CGVE 406B	Year 10+11+12 Chemistry	1
CGVE 410	Industrial Technology (One unit from Certificate IV in Electrical/Civil/Mechanical Engineering)	2
		<b>15 credits</b>

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**Year 12 Certificate IV in Work Place English & General Engineering Practice(15 Credits)**

		<b>Credits</b>
WENG 3	Workplace English 3	1
GE6	Occupational Health & Safety	2
IE6	Principle of Electricity	2
	<b>PLUS any 4 units or more from the following group</b>	
GE1	Electrical Wiring (EE)	2
GE8	Electronics (EE)	2
GE13	Principle of Engine(ME)	2
GE14	Fitting & Machining (ME)	2
GE16	Engineering Drawing I (EE/CE/ME)	2
GE19	Computer Programming (EE/CE/ME)	2
GE22	Painting & Decoration (CE)	2
GE27	Machine Principle(ME)	2
GE30	Bricklaying (CE)	2
GE31	Sprouting & Guttering (CE)	2
IE9	Basic Building Construction (CE)	2
	Credit Transfer from <b>Certificate III in Work Place English &amp; Basic Engineering</b>	2
		<b>15 Credits</b>

**Award Rule-**

- If all elective are selected from EE units CIV in Work place English & Electrical Engineering Practice will be award. As for CE & ME.
- If the electives are selected from mixed discipline, CIV in Workplace English & General Engineering Practice will be awarded

<b>Year 1 After Year 12</b>	<b>Diploma in General Engineering Practice 30 credits</b>	<b><u>Credits</u></b>
IE1	Engineering Mathematics	2
IE2	Engineering Physics	2
IE3	Material Science	2
IE13	Workshop	2
IE15	Advanced Engineering Design & Project Work	2
	<b>PLUS any 4 units or more from the following group</b>	
GE2	Electrical Machine (EE)	5
GE3	Electrical Distribution (EE)	5
GE4	Power System Operation (EE)	5
GE9	Process Control (EE/ME)	5
GE15	Building Construction (CE)	5
GE18	Air-conditioning & Refrigeration (ME)	5
GE20	Computer Networking (EE)	5
GE21	Welding (ME)	5
GE25	Surveying (CE)	5
GE28	Hydraulic (CE/ME)	5
GE29	Materials & Corrosion Prevention (CE/ME)	5
	<b>Workplace Assessment Units (Only based on previous work experiences)</b>	
IE11	Electrical & Mechanical Engineering Work Experience	5
IE12	Civil Engineering Work Experience	5
		<b>30 Credits</b>

**Award Rule-**

- If 4 electives are selected from EE units Dip in Electrical Engineering Practice will be award. As for CE & ME.
- If the electives are selected from mixed discipline, Dip in General Engineering Practice will be awarded

<b>Year 2 After Year 12</b>	<b>Advanced Diploma in Engineering Practice 60 credits</b>	<b><u>Credits</u></b>
EE307	Energy Efficient Building Design	2
EE308	Sustainability	2
EE309	Project Management	2
EE310	Engineering Officer Competency Report	2
	<b>PLUS any 4 units from the following group</b>	
IE7	Electrical Circuit I (EE)	5
IE8	Electrical Circuit II (EE)	5
IE9	Advanced Building Construction (CE)	5
IE10	Transmission Line (EE)	5
GE7	Project Management (EE/CE/ME)	5
GE10	Industrial Electronics (EE)	5
GE11	Programmable Logic Controller (EE/ME)	5
GE17	Pipe Fitting (CE/ME)	5
GE23	Pneumatics (CE/ME)	5
GE24	Manufacturing Management (ME)	5
		<b>30 Credits</b>

**Award Rule-**

- If 4 electives are selected from EE units Adv Dip in Electrical Engineering Practice will be award. As for CE & ME.
- If the electives are selected from mixed discipline, Adv Dip in General Engineering Practice will be awarded

<b>Year 3 After Year 12</b>	<b>Associate Degree in Engineering Practice (General/EE/CE/ME) 90 credits</b>	<b><u>Credits</u></b>
BAE 401	Advanced Engineering Mathematics	9
BAE 402	Calculus	3
BAE 403	Engineering Mechanics	1
BAE 404	Engineering Materials & Thermodynamics	3
BAE 508	Industrial Engineering & Management	1
BAE 601	Computer Programming	3
BAE 608A	Final Graduation Project/ Research Report	10

Based on Advanced Diploma, Associate Degree will be awarded in relevant discipline.

