

PROGRAMME REGULATIONS

Programme Schedule

Bachelor of Applied Technology

To be read in conjunction with the [Bachelors Regulations](#).

1. Programme Schedule

This Programme Schedule applies to the Bachelor of Applied Technology (BAppTech) Level 7 Credits 360 including the following pathways:

- Automotive Engineering
- Building
- Electrotechnology
- Marine Technology (Not currently available)
- Transport Management

2. Programme Specific Admission

2.1 Specific Admission

To be admitted to this programme, all applicants must meet the requirements set out in this schedule:

- a. Automotive Engineering / Building Study Pathway Admission Specific Requirements

Successfully completed a relevant Level Three New Zealand Certificate or higher, or a comparable qualification, in a discipline relevant to the applicant's study pathway in the degree or equivalent.

- b. Transport Management / Electrotechnology Study Pathway Admission Specific Requirements:

Applicants who have gained 42 credits at NCEA Level 3 as defined in the Generic Bachelor Regulations, and who can demonstrate a total of 14 credits at level 3 in any TWO of the following subjects:

Level 3 NCEA Domains (14 credits from any TWO domains):

- Physics;
- Mathematics;
- Statistics and Modelling;
- Any other technical domain.

3. Selection

3.1 Selection Criteria

If the number of applicants exceeds the number of places available, then preference will be given to applicants who have the Unitec Certificate in Applied Technology.

3.2 Selection process

Relevant Academic Authority will select and offer places to students.

Applicants may be required to attend an interview.

4. Requirements for the Award of the Qualification

4.1 Minimum credit requirements

To be awarded the Bachelor of Applied Technology a student must successfully complete 360 credits as outlined from the following tables:

Credit Accumulation

Course selection	Number of credits
Compulsory courses (Table 1)	105 (minimum)
Pathway courses (Selections ¹ from Tables 4a, 4b, 4c, 4d)	120 (minimum)
Elective courses (Selections ¹ from Tables 2, 3, 4a, 4b, 4c, 4d)	135 (including at least 30 credits at level 7)
Total Credits²	360

¹ As approved by the Programme Leader or delegated persons.

² Including a minimum of 75 credits at Level 7.

Table 1: Core Compulsory Courses (all specialisations)

Level	Course No	Course Name	Credits	Pre-requisites	Co-requisites	Restrictions
Level 5						
5	APTE5101	Technology Skills 1	15			APPT5110
5	APTE5102	Technology Skills 2	15	APTE5101 or equivalent		APPT5111
Level 6						
6	APTE6103	Sustainable Technologies	15	APTE5101 or APTE5102 or equivalent		APPT6113

6	APTE6104	Technology Practice	15	APTE6103 and at least ONE level 5 course in the area of technical specialisation		APPT6212 and APPT6112
Level 7						
7	APTE7105	Industry Investigation	15	APTE6104 or equivalent		APPT7115
7	APTE7106	Industry Project	30	APTE6104 or APTE6103 and at least ONE level 5 course in the area of specialisation	APTE7105	APPT7116

Table 2: Core Elective Courses (all pathways)

Level	Course No	Course Name	Credits	Pre-requisites	Co-requisites	Restrictions
All students may select from the following according to needs of their study plan and subject to the other requirements for completion of the degree.						
Level 5						
5	APTE5201	Technology Materials	15			TTEC5310
5	APTE5202	Engineering Computer Aided Design	15			
5	APTE5203	Engineering Mechanics	15			
Level 6						
6	APTE6201	Engineering Concept Modelling	15	APTE5202		
6	APTE6203	Project Management Principles	15	APTE5101 or APTE5102 or equivalent		
6	APTE6204	Technology and Te Ao Māori	15	APTE5101 or APTE5102 or equivalent		APPT6115
6	APTE6205	Technology and Society	15	APTE5101 or APTE5102 or equivalent		
6	APTE6206	Negotiated Study	15	APTE5101 or APTE5102 or equivalent		APPT6116
Level 7						

7	APTE7207	Professional Business Management	15	APTE5101 and APTE5102 or equivalent		
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Table 3: Open Elective Course (all pathways)

Level	Course No	Course Name	Credits	Pre-requisites	Co-requisites	Restrictions
All students may select from the following according to needs of their study plan and subject to the other requirements for completion of the degree.						
Level 6						
6	APTE6206	Negotiated Study	15			APPT6116
And						
A course of at least 15 credits at Level 5, 6, or 7 from another pathways within the Bachelor of Applied Technology. (Pre/co-requisites from that study pathway apply)						APPT6113
Or						
A course of at least 15 credits at level 5, 6, or 7 from another degree programme at Unitec (Pre/co-requisites from that degree programme apply)				APTE6103 or APTE6104		APPT6113

Table 4a: Elective Courses (Automotive Engineering)

Level	Course No	Course Name	Credits	Pre-requisites	Co-requisites	Restrictions
Level 5 (Select a minimum of 60 credits)						
5	APTE5501	Vehicle Power Transmission	15			TTEC5311
5	APTE5502	Automotive Electrical	15			TTEC5313
5	APTE5503	Brake Systems	15			TTEC5312
5	APTE5504	Vehicle Body Design	15			TTEC6311
5	APTE5505	Auxiliary Systems	15			TTEC5312
5	APTE5507	Spare Parts and Inventory System	15			
Level 6 (Select a minimum of 60 credits)						
6	APTE6505	Automotive Electronics	15			TTEC5313
6	APTE6506	Automotive Engine Design	15			TTEC6312
6	APTE6507	Steering and Suspension	15			TTEC5312
6	APTE6508	Automotive Engine Dynamics	15			TTEC6312
6	APTE6509	Engine Management Systems	15			TTEC6310 and TTEC6314
6	APTE6510	Engine Fuels and Emissions	15			TTEC6310
6	APTE6511	Automotive Professional Practice	15			TTEC6315

6	APTE6515	Vehicle Fleet Maintenance	15			
Level 7 (Elective Courses)						
7	APTE7501	Vehicle Body Analysis	15	APTE5504		
7	APTE7502	Vehicle Failure Analysis	15	APTE5201		
7	APTE7503	Engine Electronic Diagnostics	15	APTE6505		
7	APTE7504	Vehicle Electronic Diagnostics	15	APTE6505		

Table 4b: Elective Courses (Electrotechnology)

Level	Course No	Course Name	Credits	Pre-requisites	Co-requisites	Restrictions
Level 5 (Select a minimum of 60 credits)						
5	APTE5601	Electrical and Electronic Principles	15			ETEC5419
5	APTE5602	Analogue Electronics	15			ETEC5410
5	APTE5603	Microprocessors	15			ETEC5413
5	APTE5604	Single Phase Installations	15			ETEC5416
5	APTE5605	Poly Phase Installations	15			ETEC5417
5	APTE5606	Computer Programming	15			ETEC5418
Level 6						
6	APTE6607	Electrical Installations and Machines	15	APTE5605		ETEC6421
6	APTE6608	Electricity Generation and Transmission	15			ETEC6422
6	APTE6609	Sensors and Wireless Communications	15			ETEC6414
6	APTE6610	Digital Electronics & Applications	15			ETEC6415
6	APTE6611	Embedded System Hardware	15	APTE5101		ETEC6416
6	APTE6612	Applied Control Engineering 1	15			ETEC6419
6	APTE6613	Power Electronics	15			ETEC6423
6	APTE6614	Programmable Logic	15	APTE6612		

		Controllers (PLC)				
Level 7 (Elective Courses)						
7	APTE7610	Power Systems	15	APTE6607		
7	APTE7611	Electrical Dynamics Machines	15	APTE6607		
7	APTE7612	Embedded Hardware 2	15	APTE6611		
7	APTE7613	Robotics	15	APTE6612		
7	APTE7614	Systems & Control	15	APTE6612		
7	APTE7615	Signal Processing	15	APTE6611		

Table 4c: Elective Courses (Marine Technology)

Level	Course No	Course Name	Credits	Pre-requisites	Co-requisites	Restrictions
Level 5						
5	APTE5202	Engineering Computer Aided Design	15			TTEC5211
5	APTE5701	Craft Design Concepts	15			TTEC5214
5	APTE5702	Marine Machinery and Drive Systems	15			TTEC5212
5	APTE5703	Marine Construction	15			TTEC5210
5	APTE5704	Composite Construction	15			TTEC6214
5	APTE5705	Marine Electrical and Plumbing Systems	15			TTEC5212
Level 6						
6	APTE6706	Repair and Transportation	15			TTEC6218
6	APTE6707	Small Craft Design	15	APTE5701		TTEC6217
6	APTE6708	Boat Interior Concepts	15	APTE5701		
6	APTE6709	Marine Metal Construction	15	APTE5701		TTEC6215
6	APTE6710	Advanced Craft Design	15	APTE5701		TTEC6217
6	APTE6711	Propulsion and Resistance	15	APTE5701		TTEC6216
6	APTE6712	Composites; Practice and Investigation	15	APTE5704		
6	APTE6713	Yacht Construction Processes	15	APTE5703		
6	APTE6714	Yacht Fluid Operating Systems	15	APTE5705		
Level 7 (Elective Courses)						
7	APTE7701	The Hydrodynamics of Yacht Design	15	APTE5701, APTE6707		
7	APTE7702	Performance Yacht Design	15	APTE7701		

¹ Unspecified Electives must be approved by the Programme Leader or delegated authority.

Table 4d: Elective Courses (Building)

Level	Course No.	Course Name	Credits	Pre-requisites	Restrictions
Level 5					
5	BUIT5110	Building Preliminary 2	15		BUIT5100
5	BUIT5111	Building Structure 2	30		BUIT5101
5	BUIT5112	Building Envelopment 2	30		BUIT5102
Level 6					
6	BUIT6113	Building Preliminary 3	15	BUIT5110 or BUIT5100 and APPT5110 or APPT5010	BUIT6103
6	BUIT6114	Building Structure 3	30	BUIT5111 or BUIT5101 and APPT5110 or APPT5010	BUIT6104
6	BUIT6115	Building Envelopment 3	30	BUIT5112 or BUIT5102 and APPT5110 or APPT5010	BUIT6105
6	BUIT6116	Building Administration	30	APPT5110 or APPT5010	BUIT6106

Table 4e: Elective Courses (Transport Management)

Level	Course No	Course Name	Credits	Pre-requisites	Co-requisites	Restrictions
Level 5						
5	APT5506	Motor Trade Business Processes	15			
5	APT5507	Spare Parts and Inventory System	15			
5	BSNS5350	Introduction to Operations Management	15			BSNS5400 Business Fundamentals
5	BSNS5341	Introduction to Human Resource Management	15			BSNS5390 Managing in Organisations
5	BSNS5340	Marketing Fundamentals	15			
5	BSNS6350	Operations Management	15			ACTY5200 Accounting for Business
Level 6						
6	APTE6513	Vehicle Design and Selection	15			
6	APTE6514	Road Transport Guidelines	15			
6	APTE6515	Vehicle Fleet Maintenance	15			
6	APTE6516	Supply and Distribution Systems	15			

6	APTE6517	International Trading and Customs Protocols	15			
6	BSNS6352	Supply Chain Management	15			
6	BSNS6340	Strategic Thinking for Managers	15			
6	BSNS6341	Talent Development and Management	15	BSNS5341		
6	BSNS6351	Managing Quality	15	BSNS5350		
6	BSNS6100	Marketing Management	15	BSNS5340		
6	BSNS6363	Digital Marketing	15	BSNS53400		
Level 7 (Elective Courses)						
7	BSBS7360	International Business	15			
7	BSNS7140	Applied Human Resource Management	15	BSNS6341		
7	BSNS7100	Advanced Marketing	15	BSNS6100		
7	BSNS7350	Applied Operations Management	15	BSNS6350		
7	BSNS7340	Organisational Strategies	15	BSNS6340		
7	BSNS7730	Sustainability in Business	15	BSNS6340		

5. Credit Recognition

- a) Credit Recognition will be determined on a case-by-case basis in accordance with the Bachelor degree generic regulations;
- b) Assessment of prior learning is available for all courses except those at level 7 and APPT6116/APTE6206 Negotiated Study.

6. Assessment

6.1 Assessment basis

All summative assessment events are achievement based using an 11-point grading scale.

6.2 Calculation of course grades

- a. Course grades are calculated by the mathematical aggregation of weighted assessment marks. The following course grades shall be awarded to students who obtain the following marks:

Table 5: Course Grades

Grade	Percentage	Result
A+	90 – 100	Pass
A	85 – 89	Pass
A-	80 – 84	Pass
B+	75 – 79	Pass
B	70 – 74	Pass
B-	65 – 69	Pass
C+	60 – 64	Pass
C	55 – 59	Pass
C-	50 – 54	Pass
D	40 – 49	Fail
E	0 – 39	Fail

- b. In order to be considered for a pass grade, a student is required to submit all assessments.
- c. Students may be awarded one of the following grades for a course if they meet the criteria described.

Table 6: Grade Criteria

Grade	Meaning	Criteria
CR	Credit Recognition	The student has applied for and been awarded a credit recognition from another qualification
DEF	Deferred	The course result has been deferred
R	Restricted Pass	The student has been awarded a restricted pass subject to clause 6.3 of this schedule
W	Withdrawn	If a student withdraws from a course after the 10% date of the course is completed and up to or at the 75% date of the course. No credits earned.
DNC	Did not complete	A student has either withdrawn after the 75% date of the course has been taught or not attempted a compulsory item of assessment within a course. No Credits earned

6.3 Conditions applying to restricted pass

Relevant Academic Authority may award a restricted pass in no more than one course where:

- It is compensated by at least a C+ average in other courses taken by a student during the year in which the restricted pass is awarded, and
- The course is not a pre-requisite for any other course, and
- The course is not at Level 7

6.4 Submission and late submission work

- a. The dates when work for assessment is due will be notified in course information provided to students.
- b. No late work will be accepted for assessment unless a student has applied for and been granted permission for late submission via SAC.
- c. Application for late submission of the work must be made to the Curriculum Leader no less than 24 hours prior to assessment event due date.

- d. Extensions will not extend beyond the date of returning marked student work.
- A lecturer will not accept a piece of work that is submitted after the specified date unless a valid SAC is supplied.

6.5 Resits and resubmissions

- A student may resubmit for only one assessment in each course.
- A student must express the intention to resubmit with 7 days of receipt of the original grade.
- Resubmitted work must be handed in within two weeks from the day after the Assessment Result (in writing) and no extension will be available.
- The maximum grade for any resubmitted work will be “C-”.
- The original work submitted for assessment must accompany the resubmission.

7. Modified Programmes of Study

7.1 Modified Programme of Study

The following modified programme of study is effective from Semester 1, 2015.

7.1.1 Diploma in Automotive Engineering Technology from the Otomotif College, Malaysia

Graduates from the Diploma in Automotive Technology from the Otomotif College, Malaysia are awarded 150 credits recognition as per table below.

Table 7: Credit Recognition

Level	Course No	Course Name	Credits
Students must select 120 credits from the following			
5	APTE5101	Technology Skills 1	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
6	APTE6505	Automotive Electronics	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering & Suspension	15
6	APTE6508	Automotive Engine Dynamics	15
6	APTE6509	Engine Management Systems	15
6	APTE6510	Engine Fuels and Emissions	15
Total			150

8.1.2 Diploma in Motor Sport Technology from the Otomotif College Malaysia

Graduates from Diploma in Motor Sport Technology from the Otomotif College Malaysia are awarded 180 credits recognition as per table below.

Table 8: Credit Recognition

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5202	Engineering Computer Aided Design	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
5	APTE5504	Vehicle Body Design	15
6	APTE6505	Automotive Electronics	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering & Suspension	15
6	APTE6508	Automotive Engine Dynamics	15
6	APTE6509	Engine Management Systems	15
6	APTE6510	Engine Fuels and Emissions	15
		Total	180

8.1.3 Fiji National University (FNU)

Graduates from the Diploma in Automotive Technology from FNU will be eligible to be awarded 120 credits recognition as per table

Table 9: Credit Recognition Table

Level	Course No	Course Name	Credits
Students must select 120 credits from the following			
5	APTE5101	Technology Skills 1	15
5	APTE5201	Technology Materials	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
5	APTE5504	Vehicle Body Design	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering and Suspension	15

8.1.4 Diploma in Automotive and Mechanical Engineering Technology (Despark)

Graduates from the Diploma in Automotive and Mechanical Engineering Technology from Despark are awarded 150 credits recognition as per table below

Table 10: Credit Recognition Table for Despark

Level	Course No	Course Name	Credits
Students must select 150 credits from the following			
5	APTE5101	Technology Skills 1	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
6	APTE6505	Automotive Electronics	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering & Suspension	15
6	APTE6508	Automotive Engine Dynamics	15

Level	Course No	Course Name	Credits
6	APTE6509	Engine Management Systems	15
6	APTE6510	Engine Fuels and Emissions	15
Total			150

8.1.5 Diploma in Automotive Technology (Despark)

Graduates from the Diploma in Automotive Engineering from Despark are awarded 105 credits recognition as per table below.

Table 11: Credit Recognition Table for Despark – Diploma in Automotive Technology

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering & Suspension	15
6	APTE6509	Engine Management Systems	15
Total			105

8.1.6 BTEC Level 5 Automotive Engineering (Despark)

Graduates from the BTEC Level 5 Automotive Engineering from Despark are awarded 75 credits recognition as per table below

Table 12: Credit Recognition Table for Despark – BTEC Level 5 Automotive Engineering

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5503	Brake Systems	15
5	APTE5507	Spare Parts and Inventory System	15
6	APTE6505	Automotive Electronics	15
6	APTE6506	Automotive Engine Design	15
Total			75

8.1.7 Diploma in Motor Sport Technology (Despark)

Graduates from Diploma in Motor Sport Technology from Despark are awarded 180 credits recognition as per table below.

Table 13: Credit Recognition Table for Despark – Diploma in Motor Sport

Level	Course No	Course Name	Credits
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5	APTE5101	Technology Skills 1	15
5	APTE5202	Engineering Computer Aided Design	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
5	APTE5504	Vehicle Body Design	15
6	APTE6505	Automotive Electronics	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering & Suspension	15
6	APTE6508	Automotive Engine Dynamics	15
6	APTE6509	Engine Management Systems	15
6	APTE6510	Engine Fuels and Emissions	15
		Total	180

8.1.8 City and Guilds Diploma in Automotive Engineering (Ceylon German Technical Training Institute)

Graduates from the City and Guilds Diploma in Automotive Engineering (3 Year Certificate of Proficiency) from Ceylon - German Technical Training Institute are awarded 135 credits recognition as per table below

Table 14: Credit Recognition Table for Ceylon - German Technical Training Institute – City and Guilds Diploma in Automotive Engineering or Diesel

Level	Course No	Course Name	Credits
5	APTE5201	Technology Materials	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
6	APTE6505	Automotive Electronics	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering and Suspension	15
6	APTE6508	Engine Dynamics	15
6	APTE6510	Engine Emissions and Fuels	15
Total			135

8.1.9 Diploma in Motor Sport Technology (NAZA College)

Graduates from the Diploma in Motor Sport Technology from NAZA College are awarded 150 credits recognition as per table below

Table 15: Credit Recognition Table for NAZA College – Diploma in Motor Sport Technology

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5201	Technology Materials	15

5	APTE5202	Engineering CAD	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
5	APTE5504	Vehicle Body Design	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering & Suspension	15
6	APTE6508	Engine Dynamics	15
Total			150

8.1.10 Diploma in Automotive Technology (NAZA College)

Graduates from the Diploma in Automotive Technology from NAZA College are awarded 120 credits recognition as per table below

Table 16: Credit Recognition Table for NAZA College – Diploma in Automotive Technology

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5102	Technology Skills 2	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
6	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering & Suspension	15
6	APTE6510	Engine Emissions and Fuels	15
Total			120

8.1.11 Diploma in Automotive Business Management (NAZA College)

Graduates from the Diploma in Automotive Engineering Technology from NAZA College are awarded 135 credits recognition as per table below

Table 17: Credit Recognition Table for NAZA College – Diploma in Automotive Business Management

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5102	Technology Skills 2	15
5	BSNS5390	Management Today	15
5	BSNS5340	Marketing Fundamentals	15

5	BSNS5341	Introduction to Human Resource Management	15
5	BSNS5350	Introduction to Operations Management	15
6	APTE6516	Supply and Distribution Systems	15
Total			105

8.1.12 Zhongyuan University of China

Graduates from Zhongyuan University of China will be eligible to be awarded 120 credits recognition as per table.

Table 18: Credit Recognition Table

Level	Course No	Course Name	Credits
5	APTE 5101	Technology Skills 1	15
5	APTE5201	Technology Materials	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
5	APTE5504	Vehicle Body Design	15
5	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering and Suspension	15

8.1.13 Shenzhen Polytechnic of China

Graduates from Shenzhen Polytechnic of China will be eligible to be awarded 120 credit recognition as per table

Table 19: Credit Recognition Table

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5201	Technology Materials	15
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
5	APTE5504	Vehicle Body Design	15
5	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering and Suspension	15

8.1.14 Technical Education & Vocational Training Corporation, Saudi Arabia (Major in Automotive Engineering)

Graduates from Technical Education & Vocational Training Institute, Saudi Arabia will be eligible to be awarded 120 credit recognition as per table

Table 20: Credit Recognition Table

Level	Course No	Course Name	Credits
5	APTE5101	Technology Skills 1	15
5	APTE5201	Technology Materials	15

Level	Course No	Course Name	Credits
5	APTE5501	Vehicle Power Transmission	15
5	APTE5502	Automotive Electrical	15
5	APTE5503	Brake Systems	15
5	APTE5504	Vehicle Body Design	15
5	APTE6506	Automotive Engine Design	15
6	APTE6507	Steering and Suspension	15

8.1.15 Technical Education & Vocational Training Corporation, Saudi Arabia (Major in Electro technology)

Graduates from Technical & Vocational Training Corporation, Saudi Arabia who have electronic and electrical pathways will follow the following credit recognition.

Table 21: Credit Recognition Table for Students holding Diploma of Industrial Electronics and Control

TVTC Courses	BAT (Electro Technology)	Credits
240ELC Electronic Circuits	APTE5602 Analogue Electronics	15
241ELC Power Electronics	APTE6613 Power Electronics	15
251ELC Computers and Microprocessors	APTE5603 Microprocessors	15
146ELC Electronic Devices	APTE5601 Electrical and Electronic principles	15
140ELC Electrical Engineering-1	APTE5604 Single phase Installations	15
141ELC Electrical Engineering-2	APTE5605 Poly phase Installations	15
	APTE6104 Technology Practice	15
Total		105

Table 22: Credit Recognition Table for Students holding Diploma of Electrical Power

TVTC Courses	BAT (Electro Technology)	Credits
ELT102 Electrical Circuits	APTE5601 Electrical and Electronic principles	15
ELT202 Power Electronics	APTE6613 Power Electronics	15
ELT224 Generation and Main Substations	APTE6608 Electricity Generation and Transmission	15
ELT152 Electrical Installations	APTE5604 Single phase Installations	15
ELT132 Electrical Circuit & Measurement - II	APTE5605 Poly phase Installations	15
ELT231 Programmable Control Tech ELT233 Automatic Control Technology ELT258 Maintenance and Electrical Programmable Control	APTE6612 Applied Control Engineering 1	15
	APTE6104 Technology Practice	
Total		105

Table 23: Credit Recognition Table for Students holding Diploma of Electrical Machines and Equipment

TVTC Courses	BAT (Electro Technology)	Credits
ELT102 Electrical Circuits	APTE5601 Electrical and Electronic principles	15
ELT202 Power Electronics	APTE6613 Power Electronics	15

TVTC Courses	BAT (Electro Technology)	Credits
ELT201 Programmable Control Tech	APTE6607 Electrical Installations and Machines	15
ELT131 Electrical Circuit & Measurement - I	APTE5604 Single phase Installations	15
ELT132 Electrical Circuit & Measurement - II	APTE5605 Poly phase Installations	15
ELT244 Electronic Control of Machines ELT233 Automatic Control Technology ELT249 Programmable Control of Electrical Motors	APTE6612 Applied Control Engineering 1	15
	APTE6104 Technology Practice	
Total		105

8.1.16 The Institute Megatech, Kuala Lumpur (Megatech)

Graduates from the Diploma in Electrical and Electronic Engineering from Megatech, will be eligible to be awarded 240 unspecified cross-credits towards the Bachelor of Applied Technology, as outlined in an agreement between the Institute Megatech and Unitec. To be awarded the Bachelor of Applied Technology such a student must successfully complete 120 credits from courses listed in Table 20, and will not be eligible for any cross-crediting of these 120 credits.

Table 24: Modified Programme of study for the Dip. Electrical and Electronic Engineering, Megatech

Level	Course No	Course Name	Credits
120 credits required			
7	APTE7106	Industry Project	30
7	APTE7105	Industry Investigation	15
6	APTE6104	Technology Practice	15
6	APTE6103	Sustainable Technologies	15
7		Additional courses at level 7 (minimum)	30
		Table 4b, Elective Courses, (Electrotechnology)	15

8. Commencement

These regulations came into force Semester 1, 2019.