

## Electronic and Control Applied Engineering Programme

	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Acknowledged achievement from previous studies			30

	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Acknowledged achievement from previous studies			30

First training semester	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Electrical Principles I		8	240
	2	MAT-1	Applied Mathematics I		4	120
	3	PHY-1	Applied Physic I		4	120
	4	ENG-1	English Language I		7	210
	5	ISL-1	Islamic Studies I		2	60
6	ACS-1	Academic Competencies I		2	60	
Total					27	810

Second training semester	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Electrical Principles II		8	240
	2		Computer Programming & Matlab		4	120
	3		Applied Mathematics II		4	120
	4		Applied Physic II		4	120
	5		English Language II		7	210
6		Academic Competencies I		2	60	
Total					29	870

Third training semester	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Digital Fundamentals		8	240
	2		Programming in C		3	90
	3		Electronic Devices		6	180
	4		Mechatronics		5	150
			Applied Mathematics III		4	120
5		English Language III		5	150	
Total					31	930

Fourth training semester	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Digital Systems and Applications		5	150
	2		Analog Electronics		5	150
	3		Industrial Automation and PLC		4	120
	4		Power Electronics and Electric Drives		6	180
	5		English Language IV		5	150
	6		Business Studies Module		2	60
7		Train the Trainer Module		2	60	
Total					29	870

Fifth training semester	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Automatic Control Systems		4	120
	2		Microcontroller-based Applications		4	120
	3		Engineering Systems Design and management		3	90
	4		English Language 5		3	90
	5		Business Studies Module		2	60
	6		Train the Trainer Module		2	60
Total					18	540

Sixth training semester	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
	1		Electronic Systems Applications		6	180
	2		Renewable Energy, optional or Process Control applications		4	120
	3		Bachelor Thesis		15	450
	4		Islamic Studies III		2	60
	5		English Language 6		3	90
	6		Business Studies Module		2	60
	7		Train the Trainer Module		2	60
Total					34	1020

Total	No.	Module Code	Module Name	Prerequisite Course	Units	
					C.P	L.H
Sum Total					168	5040

C.P	ECTS-Points
-----	-------------

Notes :

1 ECTS credit point = 30 hours of learning

**Typically the student will have no more than 25 class room contact hours per week plus self study and research hours.**

The Technical Trainers College (TTC) has 18 weeks of training per semester.

The "168 ECTS-Points" in (TTC), with Company Field Practice, 12 ECTS Points, plus the "60 ECTS-Points" from previous studies equals "240 ECTS-Points".

The 240 ECTS points are needed to successfully achieve the Applied Engineering Bachelor degree at the Technical Trainers College (TTC).

Allocation of hours

240 Credit Points for Full certification

Credit point breakdown

Prior Learning from CoT/CoE	60
Vocational Discipline	103
Company Field Practice	12
Bachelor Project/colloquium	15
English Language	30
Islamic Studies	4
Academic Studies	4
Business Enterprise	6
Train the Trainer	6
<b>Total</b>	<b>240</b>