

Semester 1

Teaching Unit	Subjects	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Additional Consultation Work (15 weeks)	Assessment Method	
	Title			Tutorials	Lectures	Practicals			Continuous Assessment	Examination
Fundamental Teaching Unit Code : UEF 1.1 Credits: 18 Coefficients : 9	Mathematics 1	6	3	3h00	1h30		67h30	82h30	40%	60%
	Physics 1	6	3	3h00	1h30		67h30	82h30	40%	60%
	Structure of Matter	6	3	3h00	1h30		67h30	82h30	40%	60%
Methodology Course Code : UEM 1.1 Credits: 9 Coefficients : 5	Physics 1 Practical Work	2	1			1h30	10:30 p.m.	9:30 p.m.	100%	
	Chemistry 1 Practical Work	2	1		1:30 a.m.		10:30 p.m.	9:30 p.m.	100%	
	Computer Science 1	4	1	1:30 a.m.		1:30 a.m.	45:00 p.m.	55:00 p.m.	40%	60%
	Writing Methodology	1	1	1:00 a.m.			3:00 p.m.	10:00 a.m.		100%
Discovery Course Code : UED 1.1 Credits: 1 Coefficients : 1	Careers in Science and Technology 1	1	1	1:30 a.m.			10:30 p.m.	2:30 a.m.		100%
Cross-Curricular Course Code : UET 1.1 Credits: 2 Weightings: 2	Foreign Language 1 (French and/or English)	2	2	3 hours			45 hours	5 hours		100 %
Total semester 1		30	17	16 hours	4,5 hours	4,5 hours	375 hours	375 hours		

Semester 2

Teaching Unit	Subjects	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Additional Consultation Work (15 weeks)	Assessment Method	
	Title			Lectures	Tutorials	Practicals			Continuous Assessment	Examination
Fundamental Teaching Unit Code : UEF 1.2 Credits: 18 Coefficients : 9	Mathematics 2	6	3	3 hours	1 hour (30 minutes)		40 hours x 30 minutes	40 hours (40 minutes)	40%	60%
	Physics 2	6	3	3 hours	1 hour (30 minutes)		40 hours x 30 minutes	40 hours (40 minutes)	40%	60%
	Thermodynamics	6	3	3 hours	1 hour (30 minutes)		40 hours x 30 minutes	40 hours (30 minutes)	40%	60%
Methodology Course Code : UEM 1.2 Credits: 9 Weightings: 5	Practical Work Physics 2	2	1			1 hour (30 minutes)	10:30 p.m.	9:30 p.m.	100%	
	Chemistry 2 Practical Work	2	1			1:30 a.m.	10:30 p.m.	9:30 p.m.	100%	
	Computer Science 2	4	2	1:30 a.m.		1:30 a.m.	45:00 p.m.	55:00 p.m.	40%	60%
	Presentation Methodology	1	1	1:00 a.m.			3:00 p.m.	10:00 a.m.		100%
Discovery Course Code : UED 1.2 Credits: 1 Weightings: 1	Careers in Science and Technology 2	1	1	1:30 a.m.			10:30 p.m.	2:30 a.m.		100%
Cross-Curricular Course Code : UET 1.2 Credits: 2 Weightings: 2	Foreign Language 2 (French and/or English)	2	2	3 hours			45 hours	5 hours		100 %
Total semester 2		30	17	16 hours	4.5 hours	4.5 hours	375 hours	375 hours		

Semester 3

Teaching Unit	Subjects	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Additional Consultation Work (15 weeks)	Assessment Method	
	Title			Lectures, Tutorials					Continuous Assessment	Examination
Fundamental Teaching Unit Code : UEF 2.1.1 Credits: 10 Coefficients : 5	Mathematics 3	6	3	3h00	1h30		67h30	82h30	40%	60%
	Waves and Vibrations	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Teaching Unit Code : UEF 2.1.2 Credits: 8 Coefficients : 4	Fundamental Electronics 1	4	2	1h30	1h30		45h00	55h00	40%	60%
	Electrical Engineering Fundamentals 1	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodology Course Code : UEM 2.1 Credits: 9 Coefficients : 5	Probability and Statistics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Computer Science 3	2	1			1h30	22h30	27h30	100%	
	Practical Electronics 1 and Electrical Engineering 1	2	1			1h30	22h30	27h30	100%	
	Practical Waves and Vibrations	1	1			1h00	15h00	10h00	100%	
Discovery Course Code : UED 2.1 Credits: 2 Weights: 2	State of the Art in Electrical Engineering	1	1	1h30			22h30	02h30		100%
	Energy and Environment	1	1	1h30			22h30	02h30		100%
Cross-Curricular Teaching Unit Code : UET 2.1 Credits: 1 Weights: 1	Technical English	1	1	1h30			22h30	02h30		100%
Total Semester 3		30	17	13h30	7h30	4h00	375h00	375h00		

Semester 4

Teaching Unit	Title	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Additional Consultation Work (15 weeks)	Assessment Method	
				Lectures/Tutorials					Continuous Assessment	Examination
Fundamental Teaching Unit Code : UEF 2.2.1 Credits: 10 Coefficients : 5	Linear and Continuous Servo-Controlled Systems	6	3	3h00	1h30		67h30	82h30	40%	60%
	Combinatorial and Sequential Logic	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental Teaching Unit Code : UEF 2.2.2 Credits: 8 Weights: 4	Numerical Methods	4	2	1h30	1h30		45h00	55h00	40%	60%
	Signal Theory	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodology Course Code : UEM 2.2 Credits: 9 Weights: 5	Electrical and Electronic Measurements	3	2	1h30		1h00	37h30	37h30	40%	60%
	Practical Work: Linear and Continuous Controlled Systems	2	1			1h30	22h30	27h30	100%	
	Practical Work: Combinational and Sequential Logic	2	1			1h30	22h30	27h30	100%	
	Practical Work: Numerical Methods	2	1			1h30	22h30	27h30	100%	
Discovery Course Code : UED 2.2 Credits: 2 Weights: 2	Architecture of Automated Systems	1	1	1h30			22h30	2h30		100%
	Electrical Safety	1	1	1h30			22h30	2h30		100%
Cross-Curricular Course Code : UET 2.2 Credits: 1 Weights: 1	Expression and Communication Techniques	1	1	1h30			22h30	2h30		100%
Total Semester 4		30	17	13h30	6h00	5h30	375h00	375h00		

الفصل الدراسي الخامس

وحدة التدريس	العنوان	الاعتبارات	المعامل	حجم التداول الأسبوعي بالساعة			حجم الفصل الدراسي بالساعة (15 أسبوعاً)	عمل إضافي في الامتحانات (15 أسبوعاً)	وضع التقييم	
				دورة نظرية	مختبر	عمل			التقييم المستمر	امتحان
الاتحاد الأوروبي الأساسي الرمز: UEF 3.1.1 عدد المشاهدين: ١٠ المعاملات: ٤	التحكم في الأنظمة الخطية	4	٢	1:30	1:30		45:00	55:00	40%	60%
	إلكترونيات الطاقة	4	٢	1:30	1:30		45:00	55:00	40%	60%
	نمذجة وتحديد الأنظمة	٣	1	1:30			10:30 مساءً	٢٧:٣٠		Z1٠٠
الاتحاد الأوروبي الأساسي الرمز: UEF 3.1.2 عدد المشاهدين: 8 المعاملات: 4	المعالجات الدقيقة ووحدات التحكم الدقيقة	6	3	3:00 صباحاً - 1:30 صباحاً			67:30	٨٢:٣٠	40%	60%
	البرمجة بلغة C++	٢	1	1:30			10:30 مساءً	٢٧:٣٠		Z1٠٠
منهجية الاتحاد الأوروبي الرمز: UEM 3.1 عدد المشاهدين: 9 المعاملات: ٢	عمل عملي على التحكم في الأنظمة الخطية	٢	1			1:30	10:30 مساءً	٢٧:٣٠	Z1٠٠	
	العمل العملي في إلكترونيات الطاقة	٢	1			1:30	10:30 مساءً	٢٧:٣٠	Z1٠٠	
	العمل العملي: نمذجة وتحديد الأنظمة	٢	1			1:30	10:30 مساءً	٢٧:٣٠	Z1٠٠	
	المعالجات الدقيقة ووحدات التحكم الدقيقة: عمل عملي	٢	1			1:30	10:30 مساءً	٢٧:٣٠	Z1٠٠	
	برمجة C++	1	1			ساعة واحدة	3:00 مساءً	10:00 صباحاً	Z1٠٠	
مستوى الاتحاد الأوروبي الرمز: UED 3.1 عدد المشاهدين: ٢٠ المعاملات: ٢	المعيار والشهادات	1	1	1:30			10:30 مساءً	2:30 صباحاً		Z1٠٠
	الطاقة المتجددة: الإنتاج والتخزين	1	1	1:30			10:30 مساءً	2:30 صباحاً		Z1٠٠
الاتحاد الأوروبي المستعرض الرمز: UET 3.1 عدد المشاهدين: ١ المعاملات: 1	الإنجليزية والأتمتة	1	1	1:30			10:30 مساءً	2:30 صباحاً		Z1٠٠
إجمالي الفصل الدراسي الخامس		30		7:00 صباحاً	4:30 صباحاً	١٧:٣٠ مساءً	٣٧٥ ساعة	٣٧٥ ساعة		

Semester 6

Teaching Unit	Title	Credits	Coefficient	Weekly Hours			Semester Hours (15 weeks)	Additional Consultation Work (15 weeks)	Assessment Method	
				Lectures/Tutorials					Continuous Assessment	Examination
Fundamental Teaching Unit Code : UEF 3.2.1 Credits: 10 Coefficients : 5	Sampled Servo Systems	4	2	1h30	1h30		45h00	55h00	40%	60%
	Actuators	4	2	1h30	1h30		45h00	55h00	40%	60%
	Sensors and Measurement Chains	2	1	1h30			22h30	27h30		100%
Fundamental Teaching Unit Code : UEF 3.2.2 Credits: 8 Coefficients : 4	Programmable Logic Controllers (PLCs)	6	3	3h00	1h30		67h30	82h30	40%	60%
	Communication Buses and Industrial Networks	2	1	1h30			22h30	27h30		100%
Methodology Course Code : UEM 3.2 Credits: 9 Coefficients : 5	End-of-Cycle Project	4	2			3h00	45h00	55h00	100%	
	Sensors and Actuators Practical Work	2	1			1h30	22h30	27h30	100%	
	Programmable Logic Controllers Practical Work	2	1			1h30	22h30	27h30	100%	
	Communication Buses and Industrial Networks Practical Work	1	1			1h00	3:00 p.m.	10:00 a.m.	100%	
Discovery Course Code : UED 3.2 Credits: 2 Weights: 2	Electrical Installations in Automation	1	1	1:30 p.m.			10:30 p.m.	2:30 a.m.		100%
	Maintenance and Reliability	1	1	1:30 a.m.			10:30 p.m.	2:30 a.m.		100%
Cross-Curricular Course Code : UET 3.2 Credits: 1 Weights: 1	Professional Project and Business Management	1	1	1:30 a.m.			10:30 p.m.	2:30 a.m.		100%
Total semester 6		30	17	1:30 p.m.	4:30 a.m.	7:00 a.m.	375 hours	375 hours		