

Degree and Study Plan

College:

Engineering

Department:

Electrical and Computer Engineering

Cohort:

2022

Degree:

Bachelor of Engineering (B. Eng.)

Major:

Electrical and Computer Engineering (ECE)

Specializations:

1. Telecommunications and Wireless Systems (TWS)

2. Embedded Computing and Networks (ECN)

3. Power Systems and Energy (PSE)

4. Electronic Instrumentation and Control (EIC)

Category		Courses	Total Credit Hours
University Requirements	(UR)	-General Foundation Program -Arabic -Contemporary Omani State and People -Oman & Islamic Civilization or Islamic Culture	0 2 2 2
University Elective	(UE)	List (A)	6
College Requirements	(CR)	List (B)	32
College Electives	(CE)	List (C)	3
Departmental Requirements	(DR)	List (D)	50
Departmental Electives	(DE)	List (E)1	0
Major Requirements	(AR)	List (F)1	0
Major Electives	(AE)	List (G) ¹	0
Specialization Requirements	(SR)	List (H)	30
Specialization Electives	(SE)	List (I)	9 (3-courses) <u>or</u> 3 (1-course) + 6 (of Co-Op)
Minor Requirement	(IR)	List (J) ¹	0
Minor Elective	(IE)	List (K) ¹	0
Total Credits			136

Important Information:

Student is to follow one of the three schemes of the degree plan:

1. Scheme-I

is for students who by-passed the Foundation Program or those who completed the

Foundation Program in one regular semester (Fall)

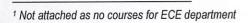
2. Scheme-II

is for students who completed the Foundation Program in two regular semesters

(Fall & Spring)

3. Co-Operative Training (Co-Op) Scheme (introduced in April 2020) is optional. It is designed for students who are following Scheme-I or Scheme-II and willing to take a one-year Co-Op program after finishing semester 8 (College regulations apply).





Department of Electrical and Computer Engineering Degree and Study Plan: 2022 Cohort (Scheme-I) **Pre-Requisites** Course Code **Course Title** Cr. Cat. Scheme-l Sem-1 Fall 2022 UR General Foundation Program **Total Credits** HIST1010 or Oman & Islamic Civilization or 2 UR ISLM1010 Islamic Culture 3 FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and CHEM1071 General Chemistry for Engineering CR Scheme-| Semester-2 Spring 2023 FPMT(0105 or 0109) FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) ENGR1501 Introduction to Engineering 1 CR FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) **ENGR1600** Workshop I 1 CR English for Engineering I 3 FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) **LANC2160** CR FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and **MATH2107** Calculus I 4 CR FPMT(0105 or 0109) **Total Credits** 14 UR ARAB1060** Arabic 2 2 UE University Elective SOCY1005** Contemporary Omani State and 2 UR Scheme-I Semester-3 Fall 2023 LANC2161 English for Engineering II 3 LANC2160 CR 3 MATH2109 Calculus II for science **MATH2107** CR Engineering PHYS2107 Physics for Engineering I 4 FPEL (0560 or 0600 or 0601 or 0602 or 0603 or CR 0604) and FPMT(0105 or 0109), MATH2107 **Total Credits** 16 ECCE2017 **Electrical Circuit Analysis** 4 MATH2107 DR Scheme-| Semester-4 Spring 2024 ECCE3206 3 Digital Logic Design DR Linear Algebra & Multivariate MATH2109 + LANC2161 MATH3171 3 CR Calculus for Engineers 4 PHYS2107 OR PHYS2101 **PHYS 2108** Physics for Engineering II CR **Total Credits** 14 ENGR22172 Introduction Computer 3 FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) CE to Programming for Engineers and FPCS (0101 or 0102) Scheme-I Semester-5 ECCE3153 3 DR **Electronic Devices and Circuits** ECCE2017 ECCE4023 3 PHYS2108 + MATH 3171 DR **Engineering Electromagnetics** DR MATH4151 Disc. Math and Complex Analy. 3 MATH3171 MATH2109 + LANC2161 MATH4174 Differential Equations for Engrs. 3 CR **Total Credits** 15 3 DR ECCE3142 Signals & Systems ECCE2017 DR 3 ECCE3352 Electrical Technology ECCE2017 Scheme-l Semester-6 Spring 2025 DR MATH4176 Numerical Analysis for Engineers 3 MATH3171 and MATH4174 and [COMP2002

or ENGR2217]

MATH2107

COMP2002 OR ENGR2217

(ECCE3153 or MCTE3110)

ECCE3206

DR

DR

3

3

15

ECCE4227

STAT2103

Total Credits

Embedded Systems

Probability for Engineers

² ENGR 2217-Programming for Engineers

^{**} Please refer to the end of the document

		Degree and Study Plan:	2022 (Cohort (Scheme-I)	
Te	lecommu	nications and Wireles	ss Sv	stems Specialization (TWS)	
2	Course Code	Course Title	Cr.	Pre-Requisites	Cat.
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR
<i>L</i>	ECCE4122	Principles of Analog & Digital Communication	3	ECCE3142 and STAT2103	DR
Scheme-I Semester-7 Fall 2025	ECCE4242	Introduction to Computer Networks	3	ECCE4227 or COMP3518 or COMP3501 [Incompatible with ECCE5231]	SR
Fal Sc	ECCE4153	Modern Digital Electronics	3	ECCE3153	SR
S	ECCE4142	Digital Signal Processing	3	ECCE3142	SR
	ECCE4010	Engineering Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and ECCE3206	DR
	Total Credits		16	•	
Jan 26	ECCE3006	Skills Training	=	ECCE3152 or MCTE3110	DR
,	Total Credits		0		. <u>.</u>
	ECCE4082	Professional Skills	1	LANC2161	DR
	ECCE4127	Advanced Digital Communication	3	ECCE4122	SR
~ "0	ECCE4416	Linear Control Systems	3	ECCE3142	DR
Scheme- Semester-8 Spring 2026	ECCE5113	Antenna Theory and Radiowave Propagation	3	ECCE4023	SR
Sch Sem Sprin	ECCE5010	Engineering Economics and Project Management	3	STAT2103	
		University Elective	2		UE
	Total Credits		15		
Summer 2026	ENGR4007	Industrial Training	-	ECCE3006	CR
<u> (</u>	Total Credits		0	·•	-4
	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR
•	ECCE5123	Optical Communications	3	ECCE4122	SR
Scheme-I Semester-9 Fall 2026	ECCE5124	Wireless Communications	3	ECCE4122	SR
est 20	ECCE5xxx4	Specialization Elective	3	Offered course-specific	SE
Scheme-lemester-	ECCE5114	Telecom Systems Security	3	ECCE4122	SR
	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
	Total Credits		17		
	ECCE5099	Project (Part II)	3	ECCE5009	DR
0 2	ECCE5143	Advanced Digital Signal Proc.	3	ECCE4142 and ECCE4227	SR
Scheme-I Semester-10 Spring 2027	ECCE5130	Modern Communication Systems Design	3	ECCE4153	SR
Sch Prii	ECCE5xxx⁴	Specialization Elective	3	Offered course-specific	SE
% %		University Elective	2		UE
	Total Credits		14		

³ Internal regulation [enforced by the ECE Department]. ECCE5009 will be available only in each Fall semester. ⁴ Or ECCE4xxx

		Degree and Study Plan: 2	2022 (Cohort (Scheme-I)	
E	mbedded	Computing and Ne	twc	orks Specialization (ECN)	
	Course Code	Course Title	Cr.	Pre-Requisites	Cat.
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR
	ECCE4122	Principles of Analog & Digital Communication	3	ECCE3142 and STAT2103	DR
Scheme-I Semester-7 Fall 2025	ECCE4216	Machine Learning for Engineers	3	(ENGR2217 or COMP2002) and (ECCE3352 or MCTE3210)	SR
വ ഉ ന	ECCE4416	Linear Control Systems	3	ECCE3142	DR
		University Elective	2		UE
		University Elective	2		UE
	Total Credits		15		
Jan 26	ECCE3006	Skills Training	-	ECCE3152 or MCTE3110	DR
	Total Credits		0		
	ECCE4010	Engineering Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and ECCE3206	DR
	ECCE4082	Professional Skills	1	LANC2161	DR
Scheme- Semester-8 Spring 2026	ECCE4242	Introduction to Computer Networks	3	ECCE4227 or COMP3518 or COMP3501 [Incompatible with ECCE5231]	SR
e di i	ECCE4257	Applied Algorithms for ECE	3	(COMP2002 or ENGR2217) and ECCE3258	SR
S Sel	ECCE4254	Operating Systems	3	COMP2002 or ENGR2217 [Incompatible with ECCE5231]	SR
	ECCE5217	Reconfigurable Computing	3	ECCE4227	SR
	Total Credits		15		
Summer 2026	ENGR4007	Industrial Training	-	ECCE3006	CR
ઝ l	Total Credits		0	·	
	ECCE5232	Computer Architecture and Organization	3	ECCE4227	SR
•	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR
er-9	ECCE5218	Routing and Switching	3	ECCE4242	SR
Scheme- Semester-9 Fall 2026	ECCE5293	Embedded Vision Systems	3	ECCE4227	SR
Eal Sc	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
ω _	ECCE5010	Engineering Economics and Project Management	3	STAT2103	DR
	Total Credits		17		
	ECCE5099	Project (Part II)	3	ECCE5009	DR
0 2	ECCE5229	Embedded Real Time Systems	3	ECCE4227	SR
Scheme-I Semester-10 Spring 2027	ECCE5219	Intelligent Applications in Robotics and Drones	3	ECCE4227	SR
Sct prir	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
တ် တ	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE

15

Total Credits

Degree and Study Plan: 2022 Cohort (Scheme-I)							
	Power	Systems and Ener	gy S	Specialization (PSE)			
	Course Code	Course Title	Cr.	Pre-Requisites	Cat.		
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR		
	ECCE4122	Principles of Analog & Digital Communication	3	ECCE3142 and STAT2103	DR		
Scheme-I Semester-7 Fall 2025	ECCE4312	Power System Analysis I	3	ECCE3352	SR		
Sch em Fal	ECCE4358	Electrical Machines	3	ECCE3352	SR		
	ECCE4010	Engineering Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and ECCE3206	DR		
		University Elective	2		UE		
	Total Credits		15				
Jan 26	ECCE3006	Skills Training	-	ECCE3152 or MCTE3110	DR		
	Total Credits		0				
	ECCE4082	Professional Skills	1 3	LANC2161	DR		
	ECCE4361	Renewable Electricity generation		ECCE3352	SR		
ထ မွ	ECCE4316	Power System Analysis II		ECCE4312	SR		
le- ter-	ECCE4416	Linear Control Systems	3	ECCE3142	DR DR		
Scheme-I Semester-8 Spring 2026	ECCE5010	Engineering Economics and Project Management	3	STAT2103			
σσ	ECCE4467	Power Electronics & Drives	3	(ECCE3153 or MCTE3110) and (ECCE3352 or MCTE3210)	SR		
	Total Credits		16				
Summer 2026	ENGR4007	Industrial Training	-	ECCE3006	CR		
제''	Total Credits	d	0	d			
	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR		
	ECCE5302	Power Systems Protection	3	ECCE4316	SR		
er-(e-	ECCE5332	High Voltage Engineering	3	ECCE4312	SR		
est I 20	ECCE5303	Power Distribution System Eng.	3	ECCE4312	SR		
Scheme-I Semester-9 Fall 2026	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE		
ဟ		University Elective	2		UE		
	Total Credits		16				
	ECCE5099	Project (Part II)	3	ECCE5009	DR		
Scheme-I Semester-10 Spring 2027	ECCE5322	Electrical Power Systems Quality	3	ECCE4312	SR		
Scheme-I Semester-10 Spring 2027	ECCE5315	Smart Grid	3	ECCE3352 and ECCE4312	SR		
che nes	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE		
Seri Spi	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE		
	Total Credits		15				

		Degree and Study Plan:	2022 (Cohort (Scheme-I)				
Electronic Instrumentation and Control Specialization (EIC)								
	Course Code	Course Title	Cr.	Pre-Requisites	Cat.			
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR			
	ECCE4122	Principles of Analog & Digital Communication	3	ECCE3142 and STAT2103	DR			
ster 202	ECCE4153	Modern Digital Electronics	3	ECCE3153	SR			
Scheme- Semester-7 Fall 2025	ECCE4416	Linear Control Systems	3	ECCE3142	DR			
ର ୍ଷ	ECCE4467	Power Electronics & Drives	3	(ECCE3153 or MCTE3110) and (ECCE3352 or MCTE3210)	SR			
		University Elective	2		UE			
	Total Credits		16					
Jan 26	ECCE3006	Skills Training	-	ECCE3152 or MCTE3110	DR			
	Total Credits		0		··•			
	ECCE4082	Professional Skills	1	LANC2161	DR			
	ECCE4455	Sensors and Actuators	3	ECCE3038	SR			
ж 9	ECCE4436	Industrial Control Systems Design	Industrial Control Systems Design 3 ECCE4416		SR			
Scheme-I Semester-8 Spring 2026	ECCE4010	Engineering Design and Professional Ethics			DR			
Sem	ECCE4142	Digital Signal Processing	3	ECCE3142	SR			
0, 0,	ECCE4216	Machine Learning for Engineers	3	(ENGR2217 or COMP2002) and (ECCE3352 or MCTE3210)	SR			
•	Total Credits	.i.	15	i				
Summer 2026	ENGR4007	Industrial Training	-	ECCE3006	CR			
<u>\sqr</u>	Total Credits	.i.	0	d.				
	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR			
	ECCE5452	Computer-Aided Instrumentation	3	(ECCE4456 or ECCE4455) and ECCE4227	SR			
Scheme-I Semester-9 Fall 2026	ECCE5411	Introduction to Industrial Network Practices	3	ECCE4436	SR			
Scheme-lemester- Fall 2026	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE			
Sen Sen	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE			
o,	ECCE5010	Engineering Economics and Project Management	3	STAT2103	DR			
	Total Credits	·	17	·				
-	ECCE5099	Project (Part II)	3	ECCE5009	DR			
- 10 27		University Elective	2		UE			
Scheme-I Semester-10 Spring 2027	ECCE5410	Intelligent Control Systems	3	ECCE4416	SR			
che nes rinç	ECCE5445	Control System Design	3	ECCE4416 or MCTE4250	SR			
Ser Ser	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE			
	Total Credits	i -1	14	1				

Department of Electrical and Computer Engineering								
Degree and Study Plan: 2022 Cohort (Scheme-II)								
= ∣	Course Code	Course Title	Cr.	Pre-Requisites	Cat.			
Scheme-II Sem-1 Fall 2022	-	General Foundation Program	•	-	UR			
<i>ο</i> Ι π	Total Credits							
Scheme-II Sem-2 SP2023	-	General Foundation Program	-	-	UR			
U)	111071010				,			
	HIST1010 or ISLM1010	Oman & Islamic Civilization or Islamic Culture	2		UR			
= ₆	CHEM1071	General Chemistry for Engineering	3	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and FPMT(0105 or 0109)	CR			
Scheme-II Sem-3 Fall 23	ENGR1501	Introduction to Engineering	1	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CR			
ිදු න ස	ENGR1600 LANC2160	Workshop I English for Engineering I	1	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CR CR			
331	MATH2107	Calculus I	4	FPEL (0500 or 0600 or 0601 or 0602 or 0603 or 0604) and FPMT(0105 or 0109)	CR			
	Total Credits		14	111 111 (0100 01 0100)	<u>i</u>			
	ARAB1060**	Arabic	2		UR			
		University Elective	2		UE			
=14.2	SOCY1005**	Contemporary Omani State and People	2		UR			
ste	LANC2161	English for Engineering II	ring II 3 LANC2160		CR			
Scheme-II Semester-4 Spring 2024	MATH2109	Calculus II for science and Engineering	3	MATH2107	CR			
	PHYS2107	Physics for Engineering I	4 FPEL (0560 or 0600 or 0601 or 0602 or 0603 0604) and FPMT(0105 or 0109) and MATH2107		CR			
	Total Credits		16					
	ECCE2017	Electrical Circuit Analysis	4	MATH2107	DR			
	ECCE3206	Digital Logic Design	3		DR			
Scheme-II Semester-5 Fall 2024	MATH3171	Linear Algebra & Multivariate Calculus for Engineers	3	MATH2109 and LANC2161	CR			
ner nest	PHYS 2108	Physics for Engineering II	4	PHYS2107 or PHYS2101	CR			
Sen	ENGR2217 ⁵	Introduction to Computer Programming for Engineers	3	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and FPCS (0101 or 0102)	CE			
	ECCE4082	Professional Skills	1	LANC2161	DR			
	Total Credits		18	T				
	ECCE3352	Electrical Technology	3	ECCE2017	DR			
	ECCE4023	Engineering Electromagnetics	3	PHYS2108 and MATH 3171	DR			
Scheme-III semester- pring 202	MATH4174	Differential Equations for Engrs.	3	MATH2109 and LANC2161	CR			
nes ing	ECCE3153	Electronic Devices and Circuits	3	ECCE2017	DR DR			
Scheme-II Semester-6 Spring 2025	ECCE3142	Signals & Systems	3	ECCE2017				
-	STAT2103	Probability for Engineers	3	MATH2107	DR			
	Total Credits		18					

 ⁵ ENGR 2217-Programming for Engineers
 ** Please refer to the end of the document

		Degree and Study Plan:			
Te	lecommur	nications and Wireles	ss Sv	stems Specialization (TWS)	
	Course Code	Course Title	Cr.	Pre-Requisites	Cat.
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR
	ECCE4122	Principles of Analog & Digital		ECCE3142 and STAT2103	DR
=1,7 10		Communication			
ne- iter 02;	ECCE4153	Modern Digital Electronics	3	ECCE3153	SR
Scheme-II Semester-7 Fall 2025	ECCE4227	Embedded Systems	3	(COMP2002 or ENGR2217) and ECCE3206 and (ECCE3153 or MCTE3110)	DR
.00	ECCE4010	Engineering Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and ECCE3206	DR
	ECCE4142	Digital Signal Processing	3	ECCE3142	SR
	Total Credits		16		
Jan 26	ECCE3006	Skills Training	-	ECCE3152 or MCTE3110	DR
J.,	Total Credits		0		
	ECCE4127	Advanced Digital Communication	3	ECCE4122	SR
	ECCE5010	Engineering Economics and Project Management	3	STAT2103	SR
Scheme-II Semester-8 Spring 2026	ECCE5113	Antenna Theory and Radiowave Propagation	3	ECCE4023	SR
가 한 Jing	ECCE4416	Linear Control Systems 3 ECCE3142		ECCE3142	DR
്യ ജ ദ്	ECCE4242	Introduction to Computer Networks	3	ECCE4227 or COMP3518 or COMP3501	
	NAATIIAAEA	Diag Mathematical Consultry Appelo	_	[Incompatible with ECCE5231]	DR
	MATH4151	Disc. Math and Complex Analy.	3	MATH3171	DK
	Total Credits ENGR4007	Industrial Training	18	ECCE3006	CR
Scheme-II Summer 2026	ENGR4007	Industrial Training	-	ECCE3000	UK
သ္တုတ	Total Credits		0		
	ECCE5009	Project (Part I)	2	ECCE4010 and PR ⁶	DR
	ECCE5123	Optical Communications	3	ECCE4122	SR
≐ ଟୁଡ	ECCE5124	Wireless Communications	3	ECCE4122	SR
me ste	ECCE5114	Telecom Systems Security	3	ECCE4122	SR
Scheme-II Semester-9 Fall 2026	MATH4176	Numerical Analysis for Engineers	3	MATH3171 and MATH4174 and (COMP2002 or ENGR2217)	DR
		University Elective	2		UE
	Total Credits		16		
	ECCE5099	Project (Part II)	3	ECCE5009	DR
Scheme-II Semester-10 Spring 2027	ECCE5130	Modern Communication Systems Design	3	ECCE4153	SR
Scheme-II emester-1	ECCE5143	Advanced Digital Signal Proc.	3	ECCE4142 and ECCE4227	SR
Sch me	ECCE5xxx ⁷	Specialization Elective	3	Offered course-specific	SE
ം ജ		University Elective	2	<u> </u>	UE
	Total Credits		14		
=1	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
Scheme-II Summer 2027	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
S	Total Credits	.i.	6	i	1

 6 Internal regulation [enforced by the ECE Department]. ECCE5009 will be available only in each Fall semester. 7 Or ECCE4xxx

		Degree and Study Plan: 2	022 C	Cohort (Scheme-II)	
Er	nbedded	Computing and Ne	two	orks Specialization (ECN)	_
	Course Code	Course Title	Cr.	Pre-Requisites	Cat.
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR
—; - ;	ECCE4122	Principles of Analog & Digital Communication		ECCE3142 and STAT2103	DR
Scheme-II Semester-7 Fall 2025	ECCE4216	Machine Learning for Engineers	3	(ENGR2217 or COMP2002) and (ECCE3352 or MCTE3210)	SR
Ser Ser Fal	ECCE4416	Linear Control Systems	3	ECCE3142	DR
.	ECCE4227	Embedded Systems	3	(COMP2002 or ENGR2217) and ECCE3206 and (ECCE3153 or MCTE3110)	DR
	MATH4151	Disc. Math and Complex Analy.	3	MATH3171	DR
	Total Credits		17		
Jan 26	ECCE3006	Skills Training	-	ECCE3152 or MCTE3110	DR
	Total Credits		0		,
	ECCE4010	Engineering Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and ECCE3206	DR
_, & 9	MATH4176	Numerical Analysis for Engineers	3	MATH3171 and MATH4174 and (COMP2002 or ENGR2217)	DR
Scheme-II Semester-8 Spring 2026	ECCE4242	Introduction to Computer Networks		ECCE4227 or COMP3518 or COMP3501 [Incompatible with ECCE5231]	SR
Sch em prir	ECCE4257	Applied Algorithms for ECE	3	(COMP2002 or ENGR2217) and ECCE3258	SR
33 W W	ECCE4254	Operating Systems		COMP2002 or ENGR2217 [Incompatible with ECCE5231]	SR
	ECCE5217	Reconfigurable Computing	3	ECCE4227	SR
	Total Credits		17		
Scheme-II Summer 2026	ENGR4007	Industrial Training	-	ECCE3006	CR
യിയ	Total Credits		0		
	ECCE5232	Computer Architecture and Organization	3	ECCE4227	SR
6	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR
ne-II ter-	ECCE5218	Routing and Switching	3	ECCE4242	SR
nes nes	ECCE5293	Embedded Vision Systems	3	ECCE4227	SR
Scheme-III Semester-9 Fall 2026	ECCE5010	Engineering Economics and Project Management	3	STAT2103	DR
		University Elective	2		UE
	Total Credits		16	1	
	ECCE5099	Project (Part II)	3	ECCE5009	DR
<u>∥</u> 10 27	ECCE5229	Embedded Real Time Systems	3	ECCE4227	SR
Scheme-II Semester-10 Spring 2027	ECCE5219	Intelligent Applications in Robotics and Drones	3	ECCE4227	SR
en Sci	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
တ ဟ		University Elective	2		UE
	Total Credits		14		
	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
Scheme-II Summer 2027	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
	Total Credits		6		

		Degree and Study Plan: 2	022 C	Cohort (Scheme-II)	
	Power	⁻ Systems and Ener	gy S	Specialization (PSE)	
	Course Code	Course Title	Cr.	Pre-Requisites	Cat.
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR
	ECCE4122	Principles of Analog & Digital Communication		ECCE3142 and STAT2103	DR
me-II ster-7 2025	ECCE4312	Power System Analysis I	3	ECCE3352	SR
Scheme-II Semester-7 Fall 2025	ECCE4227	Embedded Systems	3	(COMP2002 or ENGR2217) and ECCE3206 and (ECCE3153 or MCTE3110)	DR
	ECCE4358	Electrical Machines	3	ECCE3352	SR
	ECCE4010	Engineering Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and ECCE3206	DR
	Total Credits		16		
Jan 26	ECCE3006	Skills Training	-	ECCE3152 or MCTE3110	DR
_	Total Credits		0		-
	ECCE4361	Renewable Electricity generation	3	ECCE3352	SR
	ECCE4316	Power System Analysis II	3	ECCE4312	SR
le- ter-8 2026	ECCE4467	Power Electronics & Drives	3	(ECCE3153 or MCTE3110) and (ECCE3352 or MCTE3210)	SR
Scheme-II Semester-8 Spring 2026	ECCE5010	Engineering Economics and Project Management	3	STAT2103	DR
ິ່ດທ	MATH4151	Disc. Math and Complex Analy.	3	MATH3171	DR
		University Elective	2		UE
	Total Credits		17		,
Scheme-II Summer 2026	ENGR4007	Industrial Training	-	ECCE3006	CR
0 31	Total Credits	D : 1/D (1)	0	. E00E4040 LDD2	, DD
	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR SR
	ECCE5302 ECCE5332	Power Systems Protection	3	ECCE4316	SR
er: 	ECCE5332 ECCE5303	High Voltage Engineering Power Distribution System Eng.	3	ECCE4312 ECCE4312	SR
Scheme-II Semester-9 Fall 2026	MATH4176	Numerical Analysis for Engineers	3	MATH3171 and MATH4174 and [COMP2002 or ENGR2217]	DR
•		University Elective	2	0. 2.101.22.11	UE
	Total Credits		16		
	ECCE5099	Project (Part II)	3	ECCE5009	DR
Scheme-II Semester-10 Spring 2027	ECCE5322	Electrical Power Systems Quality	3	ECCE4312	SR
Scheme-II emester-1 pring 202	ECCE5315	Smart Grid	3	ECCE3352 and ECCE4312	SR
nes rinç	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
Ser Ser	ECCE4416	Linear Control Systems	3	ECCE3142	DR
	Total Credits	-	15	·	,
	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
Scheme-II Summer 2027	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
ωΙ	Total Credits		6		

Degree and Study Plan: 2022 Cohort (Scheme-II)							
Ele	ectronic I	nstrumentation an	d Co	ontrol Specialization (EIC)			
	Course Code	Course Title	Cr.	Pre-Requisites	Cat.		
	ECCE3038	Elect. Measurements & Instr.	2	ECCE2017 and ECCE3153	DR		
	ECCE4122	Principles of Analog & Digital Communication	3	ECCE3142 and STAT2103	DR SR		
Scheme-II Semester-7 Fall 2025	ECCE4467	Power Electronics & Drives	3	(ECCE3153 or MCTE3110) and (ECCE3352 or MCTE3210)			
Sch Sem Fal	ECCE4227	Embedded Systems	3	(COMP2002 or ENGR2217) and ECCE3206 and (ECCE3153 or MCTE3110)			
	ECCE4416	Linear Control Systems	3	ECCE3142	DR		
	MATH4151	Disc. Math and Complex Analy.	3	MATH3171	DR		
	Total Credits	OUT TO SE	17	FOODSALES MOTESALES	- DD		
Jan 26	ECCE3006	Skills Training	-	ECCE3152 or MCTE3110	DR		
7	Total Credits	i.	0	i.			
	ECCE4455	Sensors and Actuators	3	ECCE3038	SR		
	ECCE4436	Industrial Control Systems Design	3	ECCE4416	SR		
Scheme-II Semester-8 Spring 2026	ECCE4010	Engineering Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and ECCE3206	DR		
hem nesi	ECCE4142	Digital Signal Processing	3	ECCE3142	SR		
Spr Spr	ECCE4216	Machine Learning for Engineers	3	(ENGR2217 or COMP2002) and (ECCE3352 or MCTE3210)	SR		
	ECCE4153	Modern Digital Electronics	3	ECCE3153	SR		
	Total Credits	Ţ	17	T			
Scheme-II Summer 2026	ENGR4007	Industrial Training	-	ECCE3006	CR		
0) -	Total Credits	D : 1/D (1)	0	F00F4040 - LDD2	DR		
	ECCE5009 ECCE5452	Project (Part I) Computer-Aided Instrumentation	2 3	ECCE4010 and PR ³ (ECCE4456 or ECCE4455) and ECCE4227			
_, 0	ECCE5411	Introduction to Industrial Network Practices	3	ECCE4436			
Scheme-II Semester-9 Fall 2026	MATH4176	Numerical Analysis for Engineers	3	MATH3171 and MATH4174 and (COMP2002 or ENGR2217)	DR		
Ser Ser	ECCE5010	Engineering Economics and Project Management	3	STAT2103	DR		
		University Elective	2		UE		
	Total Credits		16		7		
_	ECCE5099	Project (Part II)	3	ECCE5009	DR		
110 127	ECCE5410	Intelligent Control Systems	3	ECCE4416	SR		
eme sste	ECCE5445	Control System Design	3	ECCE4416 or MCTE4250	SR		
Scheme-II Semester-10 Spring 2027	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE		
တ တ	Total Credits	University Elective	2 14		UE		
—1	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE		
Scheme-II Summer 2027	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE		
S	Total Credits	.1	6	ı			

The Co-Operative Training (Co-Op) Scheme is optional. Students can enroll in this scheme after finishing semester-8. Following is designed for Scheme-I students and late students would have to adjust as per course(s) offering.

-Operative Schen	ne				
	Course Code	Course Title	Cr.	Pre-Requisites/Co-Requisite*	Cat.
8 5 7 8	ENGR4007	Industrial Training	-	ECCE3006	CR
Scheme Co-Op Sem-1 Fall-2026	ECCE5501	Co-Operative Training I	0	ENGR4007 *(co-requisite)	AE
OINIONE	Total Credits		0		
9	Course Code	Course Title	Cr.	Pre-Requisites/Co-Requisite*	Cat.
의 필 용2성	ECCE5502 Co-Operative Training II		6	ECCE5501	AE
Co-Op Scheme Co-Op Sem-2 SP-2027	Tatal Our dita				
	Total Credits	Telecommunications and Wirele	6 Svotom	Specialization (TMS)	
	ECCE5009		2 Systems	ECCE4010 and PR ³	DR
-		Project (Part I)			SR
6.7:	ECCE5123 ECCE5124	Optical Communications Wireless Communications	3	ECCE4122 ECCE4122	SR
Semester-9 Fall 2027	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
al al	ECCE5114	Telecom Systems Security	3	ECCE4122	SR
<u> </u>	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
-	Total Credits	Opecialization Liective	17	Ollered Course-specific	JL
	ECCE5099	Project (Part II)	3	ECCE5009	l DR
8 9	ECCE5143	Advanced Digital Signal Processing	3	ECCE4142 and ECCE4227	SR
Spring 2028	ECCE5130	Modern Communication Systems Design	3	ECCE4153	SR
ing	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
Spr		University Elective	2		UE
-	Total Credits	,	14		
		Embedded Computing and N	letworks Sp	pecialization (ECN)	
	ECCE5232	Computer Architecture and Organization	3	ECCE4227	SR
	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR
6. F	ECCE5218	Routing and Switching	3	ECCE4242	SR
Semester-9 Fall 2027	ECCE5293	Embedded Vision Systems	3	ECCE4227	
all	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
S H	ECCE5010	Engineering Economics and Project	3	STAT2103	DR
		Management			
	Total Credits		17		
	ECCE5099	Project (Part II)	3	ECCE5009	DR
Semester-10 Spring 2028	ECCE5229	Embedded Real Time Systems	3	ECCE4227	SR
g 20	ECCE5219	Intelligent App. in Robotics and Drones	3	ECCE4227	SR
i ii	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
သီ လို	ECCE5xxx ⁴	Specialization Elective	3	Offered course-specific	SE
	Total Credits	D 0 / 15	15	II (COE)	
	F00FF000	Power Systems and Ene			1 00
-	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR
6, _	ECCE5302	Power Systems Protection	3	ECCE4316	SR
302.	ECCE5332	High Voltage Engineering	3	ECCE4312	SR
all 2	ECCE5303	Power Distribution System Eng.	3	ECCE4312	SR
Semester-9 Fall 2027	ECCE5xxx ⁴	Specialization Elective		Offered course specific	SE
	Total Cradita	University Elective	2		UE
	Total Credits ECCE5099	Project (Part II)	16	ECCE5009	l DR
ο ∞	ECCE5099 ECCE5322	Project (Part II) Electrical Power System Quality	3	ECCE4312	SR
Spring 2028	ECCE5322 ECCE5315	Smart Grid	3	ECCE3352 and ECCE4312	SR
ng;	ECCE5315 ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE SE
brii em	ECCE5xxx ⁴	Specialization Elective Specialization Elective	3	Offered course specific Offered course specific	SE SE
ω ω 	Total Credits	Opecialization Liective	15	Olicied course specific	SE
	Total Offulls	Electronic Instrumentation ar		Specialization (FIC)	
	ECCE5009	Project (Part I)	2	ECCE4010 and PR ³	DR
	ECCE5452	Computer-Aided Instrumentation	3	(ECCE4456 or ECCE4455) and ECCE4227	SR
9	ECCE5411	Introduction to Industrial Network Practices	3	ECCE4436	SR
027	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
Semester-9 Fall 2027	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
Pa Fa	ECCE5010	Engineering Economics and Project	3	STAT2103	DR
	_00_0010	Management		52100	
	Total Credits	1	17		
	ECCE5099	Project (Part II)	3	ECCE5009	DR
Spring 2028		University Elective	2		UE
20.	ECCE5410	Intelligent Control Systems	3	ECCE4416	SR
ing	ECCE5445	Control System Design	3	ECCE4416 or MCTE4250	SR
Spr	ECCE5xxx ⁴	Specialization Elective	3	Offered course specific	SE
U)		- Opoliumzution Littlivo		1 CHOLOG ODGIOU OPOUNIO	I OL

UNIVERSITY REQUIREMNETS for Non-Arabic or Non-Omani Students

No.	Cohorts 2017 and	Credits	Cohorts 2018 and	Credits	Notes
	before		after		
1	ARAB1001	3	ARAB1060	2	
2	SOCY1001	1	SOCY1005	2	For Omanis Only
3	-		SOCY1007	2	For Non Omanis
4	ARAB1019			3	For non-Arabic Speaking Students.
					Offered only in Fall semesters

Notes:

- For the courses (SOCY1005, SOCY1007, HIST1010), the course materials and exams are in English for non-Arabic speaking students.
- Currently, there is no Arabic course with 2 credits for the non-Arabic speaking students of cohorts 2018 and after. Those students have to register the ARAB1019 as shown in the table above.
- For the university electives below, engineering students must register a humanity or social course (non-scientific & non-linguistic course) from any college as a University Elective. However, students are NOT allowed to register the following University Electives listed below

List A: UNIVERSITY ELECTIVES (UE) - 6 Credits

No.	Course Code	Course Title	College
1	ENGL1523	English Writing Skills	College of Arts
2	ENGR1524	English Reading Skills	College of Arts
3	ENGL1525	English Speaking and Listing Skills	College of Arts
4	CHEM1100	Everyday Chemistry	College of Science
5	COMP1210	Web Site Development	College of Science
6	CROP2020	Lab and Safety	College of Agriculture and Marine Science
7	MNGT2500	Entrepreneurship: Creativity and Innovation	College of Economics and Political Sciences
8	MNGT2501	Entrepreneurship	College of Economics and Political Sciences
9	ECON1050	Introduction to Economics	College of Economics and Political Sciences
10	CHPE1000	Renewable Energy	College of Engineering
11	ECCE1000	Electricity Generation from Solar PV	College of Engineering
12	MEIE1000	Solar Calculations and Energy	College of Engineering
13	MCTE1000	Edutainment Robotic	College of Engineering
14	ECCE2000	Introduction to Artificial Intelligence	College of Engineering

List B: COLLEGE REQUIREMENTS (CR) - 32 Credits

LIST	ist b. College Regulation (CR) – 32 Cleans					
No.	Course Code	Course Title	Credits	Pre-Requisites		
1	LANC2160	English for Engineering I	3	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604)		
2	LANC2161	English for Engineering II	3	LANC2160		
3	ENGR1501	Introduction to Engineering	1	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604)		
4	ENGR1600	Workshop I	1	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604)		
5	MATH2107	Calculus I	1	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and FPMT		
	IVIATTIZ TOT	Calculus I	4	(0105 or 0109)		
6	MATH2109	Calculus II for science and Engineering	3	MATH 2107		
7	MATH3171	Linear Algebra & Multivariate Calculus	3	MATH2109, LANC2161		
8	MATH4174	Differential Equations for Engineers	3	MATH2109, LANC2161		
9	PHYS2107	Physics for Engineering I	4	MATH2107*, FPEL (0560 or 0600 or 0601 or 0602 or 0603 or		
	PH132101	Physics for Engineering i	4	0604) and FPMT (0105 or 0109)		
10	PHYS2108	Physics of Engineering II	4	PHYS 2107		
11	CHEM1071	General Chemistry for Engineering	2	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and FPMT		
	General Chemistry for Engineering 3		(0105 or 0109)			
12	ENGR4007	Industrial Training	0	ECCE3006		

List C: COLLEGE ELECTIVES (CE) - 3 Credits

No	0.	Course Code	Course Title	Credits	
1		COMP2002	Intr. to Computer Prog. for Engineers	3	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and FPCS (0101 or 0102)
2		ENGR2217	Programming for Engineers	3	FPEL (0560 or 0600 or 0601 or 0602 or 0603 or 0604) and FPCS (0101 or 0102)

List D: DEPARTMENTAL REQUIREMENT (DR) - 50 Credits

. D. DEI	EI AKTIMENTAL KEGOIKEMENT (DK) - 30 OTEGIES				
No.	Course Code	Course Title	College	Pre-Requisite	
1.	ECCE2017	Electrical Circuit Analysis	4	MATH2107	
2.	ECCE3038	Electrical Measurements &	2	ECCE2017 and ECCE3153	
		Instrumentation			
3.	ECCE3142	Signals & Systems	3	ECCE2017	
4.	ECCE3153	Electronic Devices and Circuits	3	ECCE2017	
5.	ECCE3206	Digital Logic Design	3		
6.	ECCE3352	Electrical Technology	3	ECCE2017	
7.	ECCE4010	Eng. Design and Professional Ethics	2	ECCE3142 and ECCE3352 and ECCE3153 and	
				ECCE3206	
8.	ECCE4023	Engineering Electromagnetics	3	MATH3171 and PHYS2108	
9.	ECCE4082	Professional Skills	1	LANC2161	
10.	ECCE4122	Principles of Analog & Digital Comm	3	ECCE3142 and STAT2103	
11.	ECCE4227	Embedded Systems	3	(COMP2002 or ENGR2217) and ECCE3206 and	
				(ECCE3153 or MCTE3110)	
12.	ECCE4416	Linear Control Systems	3	ECCE3142	
13.	ECCE5010	Engineering Economics and Project	3	STAT2103	
		Management			
14.	ECCE5009	Project (Part I)	2	ECCE4010 and PR1	
15.	ECCE5099	Project (Part II)	3	ECCE5009	
16.	MATH4151	Discrete Math & Complex Analysis	3	MATH3171	
17.	MATH4176	Numerical Analysis for Engineers	3	MATH3171 and MATH4174 and (COMP2002 or	
				ENGR2217)	
18.	STAT2103	Probability for Engineers	3	MATH2107	
19.	ECCE3006	Skills Training	0	ECCE3152 or MCTE3110	

List H: SPECIALIZATION REQUIREMENT (SR) – 30Credits Telecommunications and Wireless Systems Specialization

No.	Course Code	Course Title	College	Pre-Requisite
1.	ECCE4242	Introduction to Computer Networks	3	(ECCE4227 or COMP3518 or COMP3501)
				[Incompatible with ECCE5231]
2.	ECCE4153	Modern Digital Electronics	3	ECCE3153
3.	ECCE4142	Digital Signal Processing	3	ECCE3142
4.	ECCE4127	Advanced Digital Communication	3	ECCE4122
5.	ECCE5113	Antenna Theory and Radiowave	3	ECCE4023
		Propagation		
6.	ECCE5123	Optical Communications	3	ECCE4122
7.	ECCE5124	Wireless Communications	3	ECCE4122
8.	ECCE5114	Telecom Systems Security	3	ECCE4122
9.	ECCE5143	Advanced Digital Signal Processing	3	ECCE4142 and ECCE4227
10.	ECCE5130	Modern Communication Systems	3	ECCE4153
		Design		

Embedded Computing and Networks Specialization

No.	Course Code	Course Title	College	Pre-Requisite
140.			College	
1.	ECCE4242	Introduction to Computer Networks	3	ECCE4227 or COMP3518 or COMP3501
				[Incompatible with ECCE5231]
2.	ECCE4216	Machine Learning for Engineers	3	(ENGR2217 or COMP2002) and (ECCE3352 or
				MCTE3210)
3.	ECCE4257	Applied Algorithms for ECE	3	(COMP2002 or ENGR2217) and ECCE3258
4.	ECCE4254	Operating Systems	3	COMP2002 or ENGR2217
				[Incompatible with ECCE5231]
5.	ECCE5217	Reconfigurable Computing	3	ECCE4227
6.	ECCE5232	Computer Architecture and Organization	3	ECCE4227
7.	ECCE5218	Routing and Switching	3	ECCE4242

8.	ECCE5293	Embedded Vision Systems	3	ECCE4227
9.	ECCE5229	Embedded Real Time Systems	3	ECCE4227
10.	ECCE5219	Intelligent Applications in Robotics and	3	ECCE4227
		Drones		

Power Systems and Energy Specialization

No.	Course Code	Course Title	College	Pre-Requisite
1.	ECCE4312	Power System Analysis I	3	ECCE3352
2.	ECCE4358	Electrical Machines	3	ECCE3352
3.	ECCE4467	Power Electronics & Drives	3	(ECCE3153 or MCTE3110) and (ECCE3352 or
				MCTE3210)
4.	ECCE4361	Renewable Electricity generation	3	ECCE3352
5.	ECCE4316	Power System Analysis II	3	ECCE4312
6.	ECCE5302	Power Systems Protection	3	ECCE4316
7.	ECCE5332	High Voltage Engineering	3	ECCE4312
8.	ECCE5303	Power Distribution System Eng.	3	ECCE4312
9.	ECCE5322	Electrical Power Systems Quality	3	ECCE4312
10.	ECCE5315	Smart Grid	3	ECCE3352 and ECCE4312

Electronic Instrumentation and Control Specialization

No.	Course Code	Course Title	College	Pre-Requisite
1.	ECCE4142	Digital Signal Processing	3	ECCE3142
2.	ECCE4153	Modern Digital Electronics	3	ECCE3153
3.	ECCE4467	Power Electronics & Drives	3	(ECCE3153 or MCTE3110) and (ECCE3352 or
				MCTE3210)
4.	ECCE4455	Sensors and Actuators	3	ECCE3038
5.	ECCE4436	Industrial Control Systems Design	3	ECCE4416
6.	ECCE5452	Computer-Aided Instrumentation	3	ECCE4456 or 4455) and ECCE4227
7.	ECCE4216	Machine Learning for Engineers	3	(ENGR2217 or COMP2002) and (ECCE3352 or
				MCTE3210)
8.	ECCE5445	Control System Design	3	ECCE4416 or MCTE4250
9.	ECCE5411	Introduction to Industrial Network	3	ECCE4436
		Practices		
10.	ECCE5410	Intelligent Control Systems	3	ECCE4416

List I: SPECIALIZATION ELECTIVES (SE) – Minimum 9 Credits

	No.	Course Code	Course Title	Dre Deguieite
COMP2216 COMP2216	_			
2. ECCE4127 Advanced Digital Communication ECCE4122	1.	ECCE4005	Numerical Methods for Engineers	
Section		E00E4000		
4. ECCE4142 Digital Signal Processing ECCE3142 5. ECCE4133 Advanced Logic Design ECCE3135 7. ECCE4213 Advanced Logic Design ECCE3306 8. ECCE4216 Machine Learning for Engineers (ENCR2217 or COMP2002) and (ECCE3382 or MCTE3210) 9. ECCE4221 Systems of Smart Cities ENGR2217 or COMP2002 10. ECCE4227 Systems of Smart Cities ENGR2217 or COMP2002 11. ECCE4227 Systems of Smart Cities ENGR2217 or COMP3018 Or COMP301 11. ECCE4227 Introduction to Computer Networks ECCE4227 or COMP308 Or COMP301 12. ECCE4242 Introduction to Computer Networks ECCE4227 or COMP308 Or COMP301 13. ECCE4257 Applied Apprixms for ECE (COMP2002 or ENGR2217) 13. ECCE4267 Applied Apprixms for ECE (COMP2002 or ENGR2217) and ECCE3238 14. ECCE4272 Additional Intelligence ECCE4312 15. ECCE4328 Eccidence Sectional Sections ECCE4328 16. ECCE43129 Ecce3312 ECCE4312 </td <td></td> <td></td> <td></td> <td></td>				
5. ECCE4193 Modern Dipital Electronics ECCE3193 6. ECCE4203 Dipital Electronics - Reliability and Testing ECCE3206 7. ECCE4215 Dipital Electronics - Reliability and Testing ECCE3216 8. ECCE4221 Machine Learning for Engineers [ENGR2217 or COMP2002] 10. ECCE4227 Blook chain and DLT ENGR2217 or COMP2002 11. ECCE4237 Blook chain and DLT ENGR2217 or COMP2002 12. ECCE4228 Introduction to Computer Networks ECCE4227 or COMP2002 13. ECCE4254 Operating Systems COMP2002 or ENGR2217 13. ECCE4257 Applied Algorithms for ECE (COMP2002 or ENGR2217) 14. ECCE4257 Artificial Intelligence ECCE43122 15. ECCE4322 Artificial Intelligence ECCE43122 or ECCE4122 16. ECCE43122 Artificial Intelligence ECCE3322 or ECCE4122 17. ECCE4312 Power System Analysis I ECCE3322 18. ECCE4312 Power System Analysis I ECCE3322 19.				
6. ECCE4/303 Advanced Logic Design ECCE3/306 7. ECCE4/215 Machine Learning for Engineers (ENCR2217 or COMP2002) and (ECCE3352 or MCTE3/10) 9. ECCE4/221 Systems of Smart Cities EMGR2217 or COMP2002 10. ECCE4/227 Blook chain and DLT ENGR2217 or COMP2002 11. ECCE4/227 Blook chain and DLT ENGR2217 or COMP2002 12. ECCE4/227 Introduction to Computer Networks ECCE4/227 or COMP3018 or COMP2002 12. ECCE4/224 Introduction to Computer Networks ECCE4/227 or COMP3018 or COMP2002 13. ECCE4/224 Operating Systems COMP2002 or ENGRACE/11 14. ECCE4/227 Applied Algorithms for ECE (COMP2002 or ENGRACE/11) 15. ECCE4/227 Artificial Intelligence ECCE3/22 or ECCE4/122 16. ECCE4/321 Power System Analysis II ECCE3/322 or ECCE4/122 17. ECCE4/321 Power System Analysis II ECCE3/322 18. ECCE4/321 Power System Analysis II ECCE4/322 19. ECCE4/325 ECCE4/325 ECCE4				
7. ECCE4213 Digital Electronics - Reliability and Testing ECCE4216 Machine Learning for Engineers (ENRR2217 or COMP2002) and (ECCE3352 or MCTE3210) 9. ECCE4221 Systams of Smart Cities ENGR2217 or COMP2002 10. ECCE4237 Block chain and DLT ENGR2217 or COMP2002 11. ECCE4242 Introduction to Computer Networks ECCE427 or COMP308 or COMP301 12. ECCE4254 Operating Systems COMP2002 or ENGR2217 13. ECCE4277 Applied Algorithms for ECE (COMP2002 or ENGR2217) and ECCE3258 14. ECCE4272 Artificial Intelligence ECCE3122 or ECCE4122 15. ECCCE4282 Coding and Date Encryption ECCE3122 or ECCE4122 16. ECCE4316 Power System Analysis I ECCE4312 17. ECCE4316 Power System Analysis II ECCE4312 18. ECCE4318 Electrical Machines ECCE4312 19. ECCE4368 Electrical Machines ECCE4312 20. ECCE4361 Power System Analysis II ECCE4312 21. ECCE4361 Po				
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Incompatible with ECCE5231	10.	ECCE4237	Block chain and DLT	ENGR2217 or COMP2002
Incompatible with ECCE5231	11.	ECCE4242		ECCE4227 or COMP3518 or COMP3501
12. ECCE4254 Operating Systems			'	
Incompatible with ECCE5231	12.	ECCE4254	Operating Systems	
13. ECCE4277 Applied Alporithms for ECE CCMP2002 or ENGR2217) and ECCE3258			Transmig systems	
14. ECCE4272	13	FCCF4257	Applied Algorithms for ECE	
15. ECCE4822				(COME 2002 OF ENGINEETT) and ECOLOGO
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56. ECCE5222 Microprocessor Interfacing ECCE4227				
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57.	ECCE5223	Adv. Embedded Systems Design	ECCE4227
58.	ECCE5224	Microprocessor Based Control Design	ECCE4227
59.	ECCE5228	Cloud & Edge Computing Infrastructure	ECCE4242
60.	ECCE5229	Embedded Real Time Systems	ECCE4227
61.	ECCE5231	Industrial Networks and Operating Systems	ECCE4227 and COMP2002
			[Incompatible with ECCE4242 and ECCE4254]
62.	ECCE5233	Computer Architecture and Organization II	ECCE5232
63.	ECCE5234	Industrial Systems Security	ECCE4242 or ECCE5411
64.	ECCE5236	Practical Ethical Hacking	ECCE4242 or ECCE5411
65.	ECCE5242	Advanced Computer Networks	ECCE4242
66.	ECCE5243	Network Software Design & Programming	ECCE4242
67.	ECCE5252	Software Engineering	ECCE4252 or ECCE4255
68.	ECCE5265	Database Engineering and Applications	COMP2002 or ENGR2217
69.	ECCE5282	Computer Network Security	ECCE4242 or ECCE5231
70.	ECCE5283	Cryptography, Security & e-Commerce	ECCE4242
71.	ECCE5284	Digital Forensics	(ENGR2217 or COMP2002) and (ECCE4242 or
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72.	ECCE5291	Functional Verification of Hardware Designs	ECCE4227
73.	ECCE5292	Selected Topics in Computer Engineering	ECCE4227 and (ECCE4242 or ECCE5231)
74.	ECCE5293	Embedded Vision Systems	ECCE4227
75.	ECCE5294	Introduction to Real Time Systems	COMP2002 or ENGR2217
76.	ECCE5302	Power Systems Protection	ECCE4316
77.	ECCE5303	Power Distribution System Eng.	ECCE4316
78.	ECCE5304	Power Stations	ECCE4312
79.	ECCE5313	Electric Power Transmission System Eng.	ECCE4316
80.	ECCE5314	Selected Topics in Power	ECCE4312
81.	ECCE5315 ECCE5316	Smart Grid Renewable Power Generation	ECCE3352 and ECCE4312 ECCE3352
82.			
83. 84.	ECCE5317 ECCE5322	Power System Stability and Control Electrical Power Systems Quality	ECCE4316 ECCE4312
85.	ECCE5322	Power System Operation	ECCE4312 ECCE4316
86.	ECCE5324	Power System Reliability and Planning	ECCE4310
87.	ECCE5332	High Voltage Engineering	ECCE4312
88.	ECCE5333	Power System Economics	ECCE4312
89.	ECCE5342	Electrical Engineering Material	PHYS2108
90.	ECCE5352	Generalized Machine Theory	ECCE4358
91.	ECCE5410	Intelligent control systems	ECCE4416
92.	ECCE5411	Introduction to the Industrial network practices	ECCE4436
93.	ECCE5412	Mechatronics	ECCE4416
94.	ECCE5414	Real Time Control System	ECCE4416 and ECCE4227
95.	ECCE5415	Control of Electric Machines	ECCE4467
96.	ECCE5422	Selected Topics in Control Systems	ECCE4416 or MCTE4250
97.	ECCE5432	Programmable Logic Control Systems	ECCE3206 and ECCE4416
98.	ECCE5433	Modern Control Systems	ECCE4416
99.	ECCE5434	System Dynamics and Simulation	ECCE3142
100.	ECCE5443	Optimization Techniques in Engineering	MATH3171
101.	ECCE5445	Control System Design	ECCE4416 or MCTE4250
102.	ECCE5452	Computer-Aided Instrumentation	(ECCE4456 or 4455) and ECCE4227
103.	ECCE5453	Mobile Robot Control	ECCE4416
104.	ECCE5462	Electric Drives	ECCE4466 or ECCE4467
105.	ECCE5464	Advanced Power Electronics	ECCE4466 or ECCE4467
106.	ECCE5501	Co-Operative Training-I	ENGR4007 (co-requisite)
107.	ECCE5502	Co-Operative Training-II	ECCE5501

Note:

- Students are advised to regularly check the most updated degree plan on the department webpage. This degree plan is last updated on 01st of August 2022
- Course Syllabus and exact prerequisite(s) can be checked on https://portal.squ.edu.om/course-description