

PROGRAMME : BACHELOR OF ELECTRICAL AND ELECTRONICS ENGINEERING WITH HONOURS PROGRAMME
TYPE : FULL TIME & PART TIME
BATCH : 202 ONWARDS

TYPE OF COURSES	CREDIT HOURS	ELEMENT
A. University Required Course (UNICORE)	20	UNGS, ENGLISH, BAHASA MELAYU, TILAWAH, USRAH, ARABIC LANGUAGE, CO CURRICULUM
B. Kulliyah Required Courses (KRC)	14	4 MATHS + ENTREPRENUER,,
C. Engineering Core Courses	92	ECC + MANU + GENE
D. Engineering Elective Courses	6	
E. Free Elective	6	
TOTAL	138	

A. UNIVERSITY REQUIRED COURSES (UNICORE)

No .	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1	CCFM 2052	Family Management	0.5			Year 2
2	CCLM 2051	Leadership	0.5			Year 2
3	CCSS 1010/2010 /3010	Skill 1	0.5			Year 1,2,3
4	CCSS 1010/2010 /3010	Skill 2	0.5			Year 1,2,3
5	CCUB 1061	Usrah 1	0.5			Year 1
6	CCUB 1062	Usrah 2	0.5			Year 1
7	CCUB 2163	Usrah in Action 1 (SD: Community Profiling)	1			Year 2
8	CCUB 3164	Usrah in Action 2	1			Year 3
9	LEED 1301	English for Academic writing	3			Year 1
10	LQAD 1003	Introduction to Arabic for Quranic Understanding 1	0.5			Year 1
11	LQAD 2003	Introduction to Arabic for Quranic Understanding 2	0.5			Year 2
12	TQTD 1002	Tilawah Al-Quran 1	0.5			Year 1
13	TQTD 2002	Tilawah Al-Quran 2	0.5			Year 2

14	UNGS 1201	Sustainable Development: Issues, Principles and Practices	2			Year 1
15	UNGS 1301	Basic Philosophy and Islamic Worldview	3			Year 1
16	UNGS 2290	Knowledge & Civilization in Islam	2			Year 2
17	UNGS 2380	Ethics and Fiqh of Contemporary Issues	3			Year 2

B. KULLIYAH REQUIRED COURSE (KRC)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1.	MATH 1310	Engineering Mathematics 1	3	Normal Grading		
2.	MATH 1321	Engineering Mathematics 2	3	Normal Grading	MATH 1310	
3.	MATH 2311	Differential Equations	3	Normal Grading	MATH 1320	
4.	MATH 2330	Computational Method and Statistics	3	Normal Grading	MATH 2310	
5	EECE 4211	Technology Entrepreneurship	2	Normal Grading	MANU 3318	Year 4

C. ENGINEERING CORE COURSES (LEVEL 1)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1.	EECE 1311	Electric Circuits	3	Normal Grading		
2.	MECH 1340	Engineering Mechanics	3	Normal Grading		
3	EECE 1313	Programming for Engineers	3	Normal Grading		
4.	EECE 1102	Electrical Engineering Lab 1	1	Normal Grading	EECE 1311	
5	EECE 1312	Electronics	3	Normal Grading	EECE 1311	
6	EECE 1314	Circuit Analysis	3	Normal Grading	EECE 1311	
7.	EECE 1315	Data Structure and Programming	3	Normal Grading	EECE 1313	

C. ENGINEERING CORE COURSES (LEVEL 2)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
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1.	EECE 2313	Electronic Circuits	3	Normal Grading	EECE 1312	
2.	EECE 2103	Electrical Engineering Lab 2	1	Normal Grading	EECE 1102	
3.	EECE 2317	Digital Electronics	3	Normal Grading	EECE 1312	
4.	EECE 2318	Engineering Electromagnetics and Transmission Lines	3	Normal Grading	MATH 1321	
5.	EECE 2316	Signals and Systems	3	Normal Grading	EECE 1314	
6.	EECE 2314	Computer Organization and Microprocessors	3	Normal Grading	EECE 2317	
7.	MFGA 2305	Project and Operation Management	3	Normal Grading	MATH 1321	
8.	EECE 2104	Digital Electronic Lab	3	Normal Grading	EECE 2317	
	EECE 2320	Electrical Power Generation and Transmission	3	Normal Grading	EECE 1314	

C. ENGINEERING CORE COURSES (LEVEL 3)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1.	EECE 3317	Communication Systems	3	Normal Grading	EECE 2316	
2.	EECE 3318	Instrumentation, Control and Automation	3	Normal Grading	EECE 2316	
3.	EECE 3100	Conceptual Engineering design	1	Normal Grading	Yr3	
4.	EECE 3319	Power Electronics and Drives	3	Normal Grading	EECE 2320	
5.	EECE 3316	Computer Architecture and System design	3	Normal Grading	EECE 2314	
6.	EECE 3314	Digital Signal Processing	3	Normal Grading	EECE 2316	
7.	EECE 3101	Automation and Instrumentation lab	1	Normal Grading	EECE 3312	
8.	EECE 3300	Integrated Design Project	3	Normal Grading	EECE 3100	
9.	MFGA 3309	Engineering Economics and Management	3	Normal Grading	MFGA 2305	
10.	EECE 3320	Power System Analysis	3	Normal Grading	EECE 3316	
11.	EECE 3xxx	Technical Elective 1	3	Normal Grading	EECE 3317	

C. ENGINEERING CORE COURSES (LEVEL 4)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1.	EECE 3500	Engineering Industrial Training	5	P/F	EECE 3317 >90 CH completed	
2.	EECE 4200	Final Year Project 1	2	Normal Grading	EECE 3300	
3.	EECE 4211	Entrepreneurship Technology	2	Normal Grading	EECE 3300	
4.	EECE 4xxx	Technical Elective 2	3	Normal Grading	Technical Elective 1	
5.	EECE 4xxx	Elective 1	3	Normal Grading	Technical Elective 1	
6.	EECE 4xxx	Specialized lab	1	Normal Grading	Technical Elective 1	
7.	EECE 4400	Final Year Project 2	4	Normal Grading	EECE 4200	
8.	GENE 4301	Engineering Ethics, Safety and Environment	3	Normal Grading	UNGS 2080	
9.	EECE4xxx	Technical elective 3	3	Normal Grading	Technical Elective 1	
10	EECE 4xxx	Elective 2	3		Technical Elective 1	

D. ENGINEERING ELECTIVES COURSES (CHOOSE 2 COURSES OUT OF 26)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1	Database Systems	EECE 4311	3	Normal Grading	EECE 1315	
2	Big Data Analytic	EECE 4312	3	Normal Grading	EECE 3317	
3	IoT and Cloud Computing	EECE 4313	3	Normal Grading	EECE 3317	
4	Cyber Security	EECE 4314	3	Normal Grading	EECE 3317	
5	Parallel Computing	EECE 4315	3	Normal Grading	EECE 4332	
6	Artificial Intelligence	EECE 4316	3	Normal Grading	EECE 1315	
7	Special Topics in Computer	EECE 4317	3	Normal Grading	EECE 3341	

	Engineering					
8	Wireless Communications and IoT	EECE 4318	3	Normal Grading	EECE 3317	
9	Optical Communications	EECE 4319	3	Normal Grading	EECE 2313	
10	Satellite Communications	EECE 4321	3	Normal Grading	EECE 3351	
11	Information Theory and Coding	EECE 4322	3	Normal Grading	EECE 3351	
12	Speech and Image Processing	EECE 4323	3	Normal Grading	EECE 3314	
13	Special Topics in Communications Engineering	EECE 4324	3	Normal Grading	EECE 3351	
14	Nano Electronics (Micro-fabrication Technology)	EECE 4325	3	Normal Grading	EECE 2317	
15	Embedded Systems	EECE 4326	3	Normal Grading	EECE 2317	
16	Analogue integrated Circuits	EECE 4327	3	Normal Grading	EECE 2317	
17	MEMS	EECE 4328	3	Normal Grading	EECE 3318	
18	Electronic Communications	EECE 4329	3	Normal Grading	EECE 4371	
19	Opto-Electronics	EECE 4331	3	Normal Grading	EECE 2317	
20	Special Topics in Microelectr	EECE 4332	3	Normal Grading	EECE 3371	

	onic Engineering					
21	Renewable Energy and Green Technology	EECE 4333	3	Normal Grading	EECE 2320	
22	Electronic Drives and Application	EECE 4334	3	Normal Grading	EECE 2320	
23	Power System Operation and Control	EECE 4336	3	Normal Grading	EECE 3319	
24	Communication Networks	EECE 4337	3	Normal Grading	EECE 3317	
25	Communication Networks Security	EECE 4338	3	Normal Grading	EECE 3317	
26	Object Oriented Programming with Java	EECE 4353	3	Normal Grading	EECE 1315	

E. FREE ELECTIVES/ EXTRA COURSES

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1	FREE XXXX	Free Electives				
2	FREE XXXX	Free Electives				

Undergraduate Grading Remarks

Grading Remarks (*)

Type/Grade	Explanation	Hours Credited	Hours Earned
Normal	Normal Grading(A,B,C,D, etc)	Yes	Yes
PA/FA	Pass / Fail Course or for practical training	Yes	Yes
AU	Course Audited	No	No
PR	Passed Resit	Yes	Yes

FR	Failed Resit	Yes	No
EX	Exemption	Yes	Yes
Y	Barred from Final Exam	Yes	No
I	Incomplete	No	No