

Matrix of Courses to Programme Learning Outcome (PLO)

NO	COURSES		PROGRAMME LEARNING OUTCOME (PLO)											
			PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	
			Application Knowledge	Problem Solving Knowledge	Analysis & Investigation Knowledge	Design Knowledge	Practical Skills	Communication Skill	Social Responsibility	Life-long learning / Info Management	Entrepreneurship	Professionalism & Ethics	Leadership / Teamwork Skills	
COMPULSORY														
1.	DUB1012	Pengajian Malaysia	√								√			
2.	DUE1012	Communicative English 1	√						√					
3.	DRB1000	Asas Unit Beruniform		√				√						√
4.	DUA2012	Sains Teknologi dan Kejuruteraan Islam*	√					√			√			
5.	DUB2012	Nilai Masyarakat Malaysia**	√							√	√			
6.	DRS2001	Sukan		√				√						√
7.	DRB2001	Unit Beruniform 1		√				√						√
8.	DUE3012	Communicative English 2	√						√					
9.	DRK3002	Kelab/Persatuan		√				√						√
10.	DRB3002	Unit Beruniform 2		√				√						√
11.	DUE5012	Communicative English 3	√						√					
12.	DUA6022	Komunikasi dan Penyiaran Islam	√							√	√			

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COMMON CORE													
13.	DUW1012	Occupational Safety and Health	√	√								√	
14.	DBM1013	Engineering Mathematics 1	√										
15.	DBS1012	Engineering Science	√				√						
16.	DBM2013	Engineering Mathematics 2	√										
17.	DBM3023	Electrical Engineering Mathematics	√										
18.	DPB2012	Entrepreneurship	√				√	√			√		
DISCIPLINE CORE													
19.	DET1013	Electrical Technology	√	√			√						√
20.	DET1022	Electrical Wiring	√	√			√					√	
21.	DEE1012	Measurement	√	√			√	√					
22.	DET2033	Electrical Circuits	√	√			√						√
23.	DEE2023	Semiconductors Devices	√	√			√	√					
24.	DEE2034	Digital Electronics	√			√	√						
25.	DEC2012	Fundamental Programming	√	√			√			√			

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26.	DEE3061	Computer Aided Design (CAD)	√				√							
27.	DEE3043	Electronic Circuits	√	√			√	√						
28.	DEE3052	Electronic Equipment Repair	√	√			√				√			
29.	DEE3071	Electronic Computer Aided Design (ECAD)			√		√							
30.	DEC5052	Embedded System Applications	√			√	√							√
SPECIALISATION														
31.	DEP3273	Communication System Fundamentals	√	√			√							√
32.	DEP3283	Telephony	√	√			√							√
33.	DEP5313	Fibre Optic Communication System	√	√		√	√							
34.	DEP5293	Data Communication and Networking	√		√		√							√
35.	DEP6323	Wireless Communication	√	√			√	√						
36.	DEP5303	Microwave Devices	√		√		√	√						
37.	DEE5081	Project 1	√			√	√			√				
38.	DEE6092	Project 2	√			√	√				√			

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39.	DEE6122	Signal and System	√	√	√									
INDUSTRIAL TRAINING														
40.	DUT40110	Industrial Training					√	√				√	√	
TOTAL			33	19	4	5	29	10	2	6	3	3	12	

Mapping between PLOs and PEOs

Programme Education Objectives (PEO)		PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
		LD1	LD4	LD1	LD1	LD2	LD3	LD5	LD6	LD7	LD8	LD9
PEO1	Knowledgeable and technically competent in electronics communication disciplines and be able to adapt themselves with new technological challenges in electronic communication.	√		√	√	√						
PEO2	Effective in communication and contribute effectively as a team member with the capability of being a leader.						√					√
PEO3	Capable to troubleshoot and maintain the electronic communication equipment's innovatively, creatively, ethically with social responsibility towards developing the country and the community.		√					√			√	
PEO4	Able to demonstrate entrepreneurship skills and recognize the need of lifelong learning for successful career advancement.								√	√		

Legend: Learning Domain

- LD1 Knowledge
- LD 2 Practical Skills
- LD 3 Communication Skills
- LD 4 Critical Thinking and Problem Solving Skills
- LD 5 Social Skills, and Responsibilities
- LD 6 Continuous Learning and Information Management Skills
- LD 7 Management and Entrepreneurial Skills
- LD 8 Professionalism, Ethics and Moral
- LD 9 Leadership and Teamwork Skills

Mapping between PLOs of DEP to ETAC Programme Outcome and MQF Domain and Taxonomy

DEP PLOs (MQA MQA's Programme Standards for Engineering and Engineering Technology.		ETAC PO	MQF Domain	Taxonomy
PLO1	Application Knowledge	PO1	LOD1	Cognitive
PLO2	Problem Solving Knowledge	PO1	LOD4	
PLO3	Analysis & Investigation Knowledge	PO2, PO4	LOD1	
PLO4	Design Knowledge	PO3	LOD1	
PLO5	Practical Skills	PO5	LOD2	Psychomotor
PLO6	Communication Skill	PO10	LOD3	Affective
PLO7	Social Responsibility	PO6, PO7	LOD5	
PLO8	Life-long learning / Info management	PO12	LOD6	
PLO9	Entrepreneurship	PO11	LOD7	
PLO10	Professionalism & Ethics	PO8	LOD8	
PLO11	Leadership / Teamwork Skills	PO9	LOD9	

Legend:

Learning Outcome Domain (LOD)

LOD1: Knowledge
 LOD2: Practical Skills
 LOD3: Communication Skills
 LOD4: Critical Thinking and Problem Solving Skills
 LOD5: Social Skills and Responsibilities
 LOD6: Continuous Learning and Information Management Skills
 LOD7: Management and Entrepreneurial Skills
 LOD8: Professionalism, Ethics and Moral
 LOD9: Leadership and Teamwork Skills

Programme Outcome

PO1: Knowledge
 PO2: Problem Solving
 PO3: Design/Development of Solutions
 PO4: Investigation
 PO5: Modern Tool Usage
 PO6: The Engineer and Society
 PO7: Environment and Sustainability
 PO8: Ethics
 PO9: Individual and Team Work
 PO10: Communications
 PO11: Project Management and Finance
 PO12: Lifelong Learning

