

Blueprint CEEE222 Pelan Pengajian Semakan Kurikulum starting from intake Mac 2022
BACHELOR OF ELECTRONICS ENGINEERING WITH HONOURS
SARJANA MUDA KEJURUTERAAN ELEKTRONIK DENGAN KEPUJIAN

PART	COMPONENT	CODE	COURSE NAME	CREDIT UNIT	CONTACT HOURS			TOTAL CONTACT HOURS	PRE-REQUISITE
					L	T	P		
1	UNIVERSITY	HEP1	CO-CURRICULUM 1	1	2	0	0	2	
1	FACULTY	MAT435	CALCULUS FOR ENGINEERS	3	3	1	0	4	
1	FACULTY	ELE424	ANALOG ELECTRONICS I	3	3	1	0	4	
1	FACULTY	ELE411	CIRCUIT ANALYSIS I	3	3	1	0	4	
1	FACULTY	ECE421	DIGITAL SYSTEM FUNDAMENTALS	3	3	1	0	4	
1	FACULTY	EEE410	ELECTRICAL ENGINEERING LABORATORY I	1	0	0	3	3	
Total				14	14	4	3	21	
2	UNIVERSITY	HEP2	CO-CURRICULUM 2	1	2	0	0	2	
2	UNIVERSITY	CTU552	PHILOSOPHY AND CURRENT ISSUES	2	2	0	0	2	
2	FACULTY	ELE426	ANALOG ELECTRONICS II	3	3	1	0	4	ELE424/ELE421
2	FACULTY	ELE413	CIRCUIT ANALYSIS II	3	3	1	0	4	ELE411
2	FACULTY	ECM412	COMMUNICATION ENGINEERING FUNDAMENTALS	3	3	1	0	4	
2	FACULTY	ESE461	SIGNALS AND SYSTEMS	3	3	1	0	4	
2	FACULTY	EEE420	ELECTRICAL ENGINEERING LABORATORY II	1	0	0	3	3	
Total				16	16	4	3	23	
3	UNIVERSITY	HEP3	CO-CURRICULUM 3	1	2	0	0	2	
3	UNIVERSITY	ELC590	ENGLISH FOR ORAL PRESENTATIONS	2	2	0	0	2	
3	FACULTY	MAT455	FURTHER CALCULUS FOR ENGINEERS	3	3	1	0	4	MAT435
3	FACULTY	ECE431	COMPUTER PROGRAMMING	3	3	1	0	4	
3	FACULTY	ESE439	INSTRUMENTATION AND CONTROL SYSTEMS	3	4	1	0	5	ESE461
3	FACULTY	EPO460	POWER ENGINEERING	3	3	1	0	4	
3	FACULTY	EEE430	ELECTRICAL ENGINEERING LABORATORY III	1	0	0	3	3	
Total				16	17	4	3	24	
4	UNIVERSITY	APB1	THIRD LANGUAGE I	2	2	0	0	2	
4	UNIVERSITY	CTU554	VALUES AND CIVILIZATION II	2	2	0	0	2	
4	FACULTY	MAT575	INTRODUCTION TO NUMERICAL ANALYSIS	3	3	1	0	4	MAT455
4	PROGRAM	ECE521	MICROPROCESSOR SYSTEM	3	2	0	2	4	ECE421/ECE422
4	PROGRAM	ELE541	SEMICONDUCTOR DEVICES	3	3	1	0	4	
4	PROGRAM	ECM420	ELECTROMAGNETIC THEORY	3	3	1	0	4	MAT455
4	PROGRAM	ECE523	INTRODUCTION TO IOT AND DATA ANALYTICS IN ENG	2	2	1	0	3	
Total				18	15	3	2	20	
5	UNIVERSITY	APB2	THIRD LANGUAGE II	2	2	0	0	2	
5	UNIVERSITY	STA408	STATISTICS FOR SCIENCE AND ENGINEERING	3	3	1	0	4	MAT455
5	UNIVERSITY	ENT600	TECHNOLOGY ENTREPRENEURSHIP	3	3	1	0	4	
5	PROGRAM	ECE532	DATA STRUCTURES AND ALGORITHM	3	3	1	0	4	ECE431
5	PROGRAM	ESE562	SIGNALS AND SYSTEMS: ANALYSIS AND APPLICATIONS	3	4	1	0	5	
5			ENTRANCE ELECTIVE	3	3	1	0	4	
Total				17	18	5	0	23	
6	UNIVERSITY	APB3	THIRD LANGUAGE III	2	2	0	0	2	
6	UNIVERSITY	ELC640	ENGLISH FOR JOB APPLICATIONS	2	2	0	0	2	
6	PROGRAM	ELE551	EMBEDDED SYSTEM DESIGN AND INTERFACING	3	3	1	0	4	
6	PROGRAM	EEE630	INTEGRATED DESIGN PROJECT	4	2	0	2	4	
6	PROGRAM	ELE526	APPLIED ELECTRONIC CIRCUITS	3	2	0	2	4	ELE426
6	ELECTIVE		ELECTIVE I	3	3	1	0	4	
Total				17	14	2	4	20	
7	FACULTY	EEE620	INDUSTRIAL TRAINING	4	0	0	8	8	
7	FACULTY	EEE621	ENGINEERS AND SOCIETY	4	4	0	0	4	
7	PROGRAM	ELE606	ELECTRONIC ENGINEERING PROJECT I	2	1	0	3	4	
7	PROGRAM	ECE629	ARTIFICIAL INTELLIGENCE	3	2	1	0	3	ECE431
7	ELECTIVE		CORE ELECTIVE	3	3	1	0	4	
7	ELECTIVE		ELECTIVE II	3	3	1	0	4	
Total				19	13	3	11	27	
8	UNIVERSITY	EET699	ENGLISH EXIT TEST	0					
8	PROGRAM	ELE607	ELECTRONIC ENGINEERING PROJECT II	5	0	0	15	15	ELE606
8	PROGRAM	EEE640	SELECTED TOPICS FOR ELECTRONICS ENGINEERING	4	4	0	0	4	
8	ELECTIVE		OPEN ELECTIVE	3	3	1	0	4	
8	ELECTIVE		ELECTIVE III	3	3	1	0	4	
8	ELECTIVE		ELECTIVE IV	3	3	1	0	4	
Total				18	13	3	15	31	
TOTAL CREDIT UNIT				135	120	28	41	189	

STUDY PLAN FORM (ELECTIVE LIST)									
PART	COMPONENT	CODE	COURSE NAME	CREDIT UNIT	CONTACT			TOTAL CONTACT HOURS	PRE-REQUISITE
					L	T	P		
ENTRANCE ELECTIVE									
5	PROGRAM	ELE554	IC DESIGN AND FABRICATION	3	2	0	2	4	
	PROGRAM	ESE542	CONTROL SYSTEMS DESIGN	3	3	1	0	4	ESE439
	PROGRAM	ECM510	MICROWAVE ENGINEERING	3	3	1	0	4	ECM412
	PROGRAM	ECE522	COMPUTER ORGANIZATION	3	3	1	0	4	ECE421
ELECTIVE I									
6	MICRO-ELECTRONIC ENGINEERING	ELE629	ANALOG INTEGRATED CIRCUITS	3	2	0	2	4	
		ELE643	SEMICONDUCTOR MANUFACTURING TECHNOLOGY	3	3	1	0	4	
		ELE664	SENSORS AND TRANSDUCERS	3	3	1	0	4	
	SYSTEM ENGINEERING	ESE644	PROGRAMMABLE LOGIC CONTROLLER AND	3	3	0	1	4	
		ESE643	MODERN CONTROL SYSTEMS	3	3	1	0	4	
		ESE689	PRACTICAL ROBOTICS	3	3	1	0	4	
		ESE563	DIGITAL SIGNAL PROCESSING	3	3	1	0	4	
	ESE690	SPECIAL TOPIC I IN SYSTEM ENGINEERING	3	3	1	0	4		
	COMMUNICATION ENGINEERING	ECM512	DIGITAL COMMUNICATION	3	3	1	0	4	ECM412
		ECM521	ANTENNAS AND PROPAGATION	3	3	1	0	4	ECM420
COMPUTER ENGINEERING	ECE541	DATA NETWORK I	3	3	1	0	4	ECE421	
	ECE626	MICROCONTROLLER SYSTEM DESIGN	3	3	1	0	4	ECE521	
CORE ELECTIVE									
7	MICRO-SYSTEM	ELE654	ADVANCED DIGITAL DESIGN AND COMPUTER	3	2	0	2	4	ECE521
		ECE522	COMPUTER ORGANIZATION	3	3	1	0	4	
	COMMUNICATION ENGINEERING	ECM610	DIGITAL SIGNAL PROCESSING FOR COMMUNICATION SYSTEMS	3	3	1	0	4	
	COMPUTER	ECE633	OPERATING SYSTEMS	3	3	1	0	4	ECE521
ELECTIVE II									
7	MICRO-ELECTRONIC ENGINEERING	ELE644	PHOTOVOLTAIC SYSTEMS	3	3	1	0	4	
		ELE645	INTEGRATED CIRCUIT TESTING TECHNOLOGY	3	3	1	0	4	
		ELE649	PHOTONIC DEVICES AND SYSTEM	3	3	1	0	4	
	SYSTEM ENGINEERING	ESE652	PROCESS CONTROL	3	3	1	0	4	
	COMMUNICATION ENGINEERING	ECM628	MOBILE COMMUNICATION SYSTEMS	3	3	1	0	4	
		ECM617	RADIO FREQUENCY SYSTEM DESIGN	3	3	1	0	4	
COMPUTER ENGINEERING	ECE641	DATA NETWORK II	3	3	1	0	4	ECE541	
	ELE654	ADVANCED DIGITAL DESIGN AND COMPUTER	3	2	0	2	4	ECE521	
ELECTIVE III									
8	MICRO-ELECTRONIC ENGINEERING	ELE675	SPECIAL TOPIC IN MICROELECTRONICS	3	3	1	0	4	
		ELE653	VLSI SYSTEM DESIGN	3	3	1	0	4	
		ELE647	NANOTECHNOLOGY	3	3	1	0	4	
		ELE665	AUTOMOTIVE ELECTRONICS	3	3	1	0	4	
		ELE651	ENGINEERING SYSTEM DESIGN	3	3	1	0	4	
	SYSTEM ENGINEERING	ESE624	MEDICAL INSTRUMENTATION	3	3	1	0	4	
		ESE691	SPECIAL TOPIC II IN SYSTEM ENGINEERING	3	3	1	0	4	
	COMMUNICATION ENGINEERING	ECM613	SPECIAL TOPIC I IN COMMUNICATION ENGINEERING	3	3	1	0	4	
		ECM636	DATA COMMUNICATION NETWORKS	3	3	1	0	4	
		ECM640	FIBER OPTIC COMMUNICATION SYSTEM	3	3	1	0	4	
	COMPUTER ENGINEERING	ECE648	SPECIAL TOPIC IN COMPUTER NETWORKING	3	3	1	0	4	
		ESE563	DIGITAL SIGNAL PROCESSING	3	3	1	0	4	
		ECE626	MICROCONTROLLER SYSTEM DESIGN	3	3	1	0	4	ECE521
EPO540		ELECTRICAL MACHINES	3	3	1	0	4		
ELECTIVE IV									
8	MICRO-ELECTRONIC ENGINEERING		any electives from a determined mixture of semesters and areas of specialization that students have not taken		3	1	0	4	
	SYSTEM ENGINEERING	ESE683	AUTOMATION AND ROBOTICS	3	3	1	0	4	
		ESE623	COMPUTER CONTROL INSTRUMENTATION	3	3	1	0	4	
	COMMUNICATION ENGINEERING	ECM616	EMERGING TECHNOLOGY	3	3	1	0	4	
		ECM620	SATELLITE COMMUNICATION SYSTEMS	3	3	1	0	4	
	COMPUTER ENGINEERING	ECE643	FUNDAMENTALS OF NETWORK SECURITY	3	3	1	0	4	
		ELE654	ADVANCED DIGITAL DESIGN AND COMPUTER	3	2	0	2	4	ECE521
		ELE651	ENGINEERING SYSTEM DESIGN	3	3	1	0	4	
	ECE610	SPECIAL TOPIC IN COMPUTER ENGINEERING	3	3	1	0	4		
	EPO510	POWER ELECTRONICS	3	3	1	0	4		