

BACHELOR OF ENGINEERING (HONS.) ELECTRICAL (STARTING FROM INTAKE 1/14/34)

Year	Sem	Code	Courses	Credit Hours	L	T	P	Contact Hours/w / week	Pre-requisite
					/ weeks				
1	1 (14 weeks)	ZES 1133	Technical English I	3	3	-	-	3	
		KFS 1141	Engineering Drawing	1	-	-	3	3	
		KFS 1113	Engineering Mathematics 1	3	3	-	-	3	
		MPU 3123 / 3143	Titas (MPU 3123)/B.M Komunikasi 2	3	3	-	-	3	
		KES 1123	Digital Electronics	3	3	-	-	3	
		MPU 3113 / 3173	Hubungan Etnik/P. M'sia 3	3	3	-	-	3	
Total Credit				16					
1	2 (14 weeks)	ZES 1243	Technical English II	3	3	-	-	3	ZES 1133
		KFS 1213	Engineering Mathematics 2	3	3	-	-	3	KFS 1113
		KES 1223	Solid State Electronic Devices	3	3	-	-	3	
		KES 1233	Circuit Theory 1	3	3	-	-	3	
		KPS 1112	Electrical Workshop	2	1	-	1	3	
		MPUSU2	U2 (Few codes offer)	2	2	-	2	2	
Total Credit				16					
1	3 (7 Weeks)	MPUSU3	U3 (Few codes offer)	2	2	-	-	2	
		MPUSU4	U4 (Few codes offer)	2	-	-	2	2	
Total Credit				4					
2	1 (14 weeks)	KES 2114	Electronics 1	4	3	-	1	5	KES 1233
		KFS 2113	Engineering Mathematics 3	3	3	-	-	3	KFS 1213
		KES 2143	Instrumentation and Measurement	3	3	-	-	3	
		KES 2153	Circuit Theory 2	3	3	-	-	3	KES 1233
		KFS 2143	Computer Programming	3	2	-	1	4	
Total Credit				16					
2	2 (14 weeks)	KFS 2213	Engineering Mathematics 4	3	3	-	-	3	KFS 1213
		KPS 2213	Electrical Technology	3	3	-	-	3	KES 1233
		KPS 2223	Introduction to Power System	3	3	-	-	3	
		KES 2263	Microprocessor	3	3	-	-	3	KES 1123
		KJS 2123	Thermodynamics 1	3	3	-	-	3	
Total Credit				15					
3	1 (14 weeks)	KPS 3113	Electrical Machine	3	3	-	-	3	KPS 2213
		KES 3153	Electromagnetic Theory	3	3	-	-	3	KFS 1213
		KPS 3123	Power Electronics	3	3	-	-	3	KES 2114
		KES 3164	Signal and System	4	3	-	1	5	KFS 1213
		KFS 3122	Entrepreneurship	2	2	-	-	2	
Total Credit				15					
3	2 (14 weeks)	KES 3214	Communication Systems	4	3	-	1	5	KES 3164
		KPS 3214	Control System	4	4	-	-	5	KES 3164
		KPS 3213	Power System Analysis	3	3	-	-	3	KPS 2223
		KFS 3223	Engineering Management and Economics	3	3	-	-	3	
		KPS 3223	Electrical Engineering Project	3	-	-	-		
Total Credit				17					
3	3 (15 weeks)	KFS 3236	Industrial Training	6			6		
Total Credit				6					
4	1 (14 weeks)	Kxx xxxx	Elective I*	3	3			3	
		KFS 4132	Final Year Project 1	2	-	-	-		KPS 3223
		KFS 4142	Engineer and Society	2	2	-	-	2	KFS 3236
		KJS 3153	Occupational Safety and Health	3	3	-	-	3	
		Kxx xxxx	Elective II*	3				3	
		KPS 4123	Electrical Energy and Utilization	3	3	-	-	3	KPS 3213
Total Credit				16					
4	2 (14 weeks)	Kxx xxxx	Elective III*	3	3			3	
		KPS 4223	Power Electronics and Drives	3	3	-	-	3	KPS 3123
		KFS 4234	Final Year Project 2	4	-	-	-		KFS 4132
		KPS 4233	High Voltage Engineering	3	3	-	-	3	KES 3153
		Kxx xxxx	Elective IV*	3	3			3	
Total Credit				16					
Total Credit Hours:				137					
Elective Courses 1 (Electrical Related)									
		KPS 4133	Power System Stability and Control	3	3	-	-		KPS 3213
		KPS 4143	Power Generation and Conversion	3	3	-	-		KPS 3213
		KPS 4213	Electrical Power Quality	3	3	-	-		KPS 3213
		KPS 4113	Protection System	3	3	-	-		KPS 3213
		KPS 4243	Load Dispatch & Distribution System	3	3	-	-		KPS 3213
		KRS 4173	Microcontroller	3	3	-	-		KES 2263 & KFS 2143
KRS 4263	Advance Control Systems	3	3	-	-		KPS 3214		
Elective Courses 2 (Electronics Related)									
		KES 4113	Microwave Engineering	3	3	-	-		KES 3153
		KES 4213	Data Communication and Network	3	3	-	-		KES 3214
		KES 4283	Mobile and Satellite Communications	3	3	-	-		KES 3214
		KES 4193	Image Processing	3	3	-	-		KES 3164
		KES 4403	Digital System	3	3	-	-		KES 1123
		KES 4413	MicroElectronics	3	3	-	-		KES 1123
		KES 4293	IC Fabrication	3	3	-	-		KES 1223 & KES 4413