



Study Plan of Electronics and Communication Engineering Program (2022/2023)

Semester	Code	Course	Pre-requisites	Credit Hours	Lectures	Tutorials	Practical
1	EB 101	Engineering Mathematics (1)	None	3	2	2	1
	EB 111	Engineering Mechanics (1)	None	3	3	1	0
	EB 121	Engineering Physics (1)	None	3	2	1	2
	EB 141	Engineering Drawing & Descriptive Geometry (1)	None	3	2	3	0
	UEC 01E	Computer Skills & Programming Concepts (1)	None	2	1	1	2
	HU 121	Engineering Perspectives and Technology	None	2	1	0	2
	EB 131	General Chemistry	None	2	1	1	2
2	EB 102	Engineering Mathematics (2)	EB 101	3	2	2	1
	EB 112	Engineering Mechanics (2)	EB 111	3	3	1	0
	EB 122	Engineering Physics (2)	EB 121	3	2	1	2
	EB 142	Engineering Drawing & Descriptive Geometry (2)	EB 141	2	1	2	1
	UCS 01	Communication Skills (1)	None	1	0	0	2
	UEC 02E	Computer Skills & Programming Concepts (2)	UEC 01E	2	1	1	2
	UGE 01	English Language (1)	None	2	1	0	2
3	EM 170	Introduction to Manufacturing Processes	None	2	1	1	2
	EB 103	Engineering Mathematics (3)	EB 102	3	2	2	1
	EB 123	Modern Physics	EB 122	3	2	2	1
	EC 201	Computer Programming	UEC 02E	3	2	1	2
	EE 271	Energy Systems	None	3	2	2	1
	EE 291	Electric Circuits	EB 102 & EB 122	4	3	2	1
	HU 113	Technical Reports Writing and Presentations	None	2	1	0	2
4	EB 104	Linear Algebra	EB 102	3	2	2	1
	EB 204	Engineering Mathematics (4)	EB 103	3	2	2	1
	EE 202	Digital Logic Fundamentals	UEC 02E	3	2	2	1
	EE 211	Electronics Workshop	None	1	0	0	3
	EE 213	Introduction to Electronic Circuits	EB 122 & EE 291	3	2	2	1
	EE 293	Electrical Measurements and Instrumentation (1)	EE 291	3	2	2	1
	UGE 02	English Language (2)	UGE 01	2	1	0	2
5	EB 207	Numerical Analysis using MATLAB	EB 102	4	3	1	2
	EE 203	Introduction to Microprocessors	EE 202	3	2	2	1
	EE 224	Micro-Electronic Devices & Circuits	EE 213	3	2	2	1
	EE 241	Signals and Systems	EB 204	3	2	2	1
	EE 260	Electromagnetic Fields	EB 204 & EB 122	3	2	2	1
	HU 141	HU Elective (1): Ethics and Human Rights	None	2	2	1	0
	OR HU 134	Engineering Economy	None	2	2	1	0
6	EB 205	Probabilities and Random Variables	EB 204	3	3	1	0
	EE 261	Electromagnetic Waves & Transmission Media	EE 260	3	2	2	1
	EE 251	Analog Communications	EE 241	3	2	2	1
	EE 225	Solid State Electronics	EE 213	3	2	2	1
	EE 228	Analog Integrated Circuits	EE 224	3	2	2	1
	EB 206	Special Functions	EB 204	3	3	1	0
	EE 262	Microwave Engineering	EE 261	3	2	2	1
7	EE 290	Control Systems (1)	EB 204 & EE 291	3	2	2	1
	EE 252	Communications Laboratory	EE 251	1	0	0	3
	EE 255	Digital Communications (1)	EE 251	3	2	2	1
	EM 237	Thermofluids for Electrical Engineering Students	EB 112 & EB 122	4	3	2	1
	EE 342	Digital Signal Processing	EE 241 & EB 205	3	2	2	1
	HU 131	HU Elective (2): Project Management	None	2	2	1	0
	EE 304	Microprocessor Based System Design	EE 202 & EE 203	3	2	2	1
8	EE 256	Digital Communications (2)	EE 255	3	2	2	1
	EE 363	Microwave Measurements and Laboratory	EE 262	2	1	0	4
	EE 364	Antenna Theory and Design	EE 262	3	2	2	1
	UGA 03	Professional Communication in Arabic Language	None	2	2	0	0
	UGE 03	English Language (3)	UGE 02	2	1	0	2
	EE 350	Communication Systems	EE 255	4	3	2	1
	EE 367	Elective (1): Fundamentals of Acoustics	EE 251 & EE 261	3	2	2	1
9	EE 316 OR	Elective (2): Optical Electronics	EE 228	3	2	2	1
	EE 359	OR Error Correcting Codes	OR EE 256	3	2	2	1
	EE 353	Elective (3): Data Communication Networks	EE 255	3	2	2	1
	EE 400-1	Graduation Project (1)	Dept. Approval	4	3	2	2
	EE 344 OR	Elective (4): Digital Filters	EE 241	3	2	2	1
	EE 389	OR PLC Applications in Industry	OR EE 290 & EE 203	3	2	2	1
	EE 325 OR	Elective (5): Introduction to Computer Networks	EE 255	3	2	2	1
10	EE 345	OR Digital Image Processing	OR EE 241	3	2	2	1
	EE 354	Mobile Communication Systems	EE 255	3	2	2	1
	EE 385	Electrical Power and Machines	EE 271 & EE 291	4	3	2	1
	UCS 02	Communication Skills (2)	UCS 01	1	0	0	2
	EE 400-2	Graduation Project (2)	EE 400-1	4	3	2	2

Total = 177 Cr