

Table No. (10)

Study Plan for First Year – Department of Electronics and Communications Engineering

First Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
GEN1401	Engineering Mathematics (3)	2	2	-	4	50	-	100	3	150	3
ELC1402	Electronic Workshops	2	-	2	4	-	50	50	3	100	3
POW1403	Electric Circuit Analysis	2	1	-	3	50	-	100	3	150	2
GEN1404	Labor Law	2	-	-	2	10	-	40	2	50	2
ELC1405	Electronic Devices	2	1	1	4	30	20	100	3	150	2
ELC1406	Signals and Systems	3	2	-	5	50	-	100	3	150	4
Total weekly Hours		13	6	3	22	Total CH					16
Second Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
GEN1407	Engineering Mathematics (4)	2	2	-	4	30	-	70	3	100	3
ELC1408	Analog Electronics	2	1	1	4	30	20	100	3	150	2
ELC1409	Introduction to Communications	3	1	1	5	30	20	100	3	150	3
CSE1410	Computer Programming	2	-	2	4	20	30	100	3	150	3
ELC1411	Logic Circuits	2	1	1	4	20	20	60	3	100	2
GEN1412	Technical Writing	2	-	-	2	30	-	70	2	100	2
Total weekly Hours		13	5	5	23	Total CH					15
						Total Grades				1500	

Summer training in the college's electronics workshops for a period of three weeks after the second semester exams of the first year. The result is recorded as 'Pass' or 'Fail' only, without grades, in the first semester of the second year.

Table No. (11)

Study Plan for Second Year – Department of Electronics and Communications Engineering

First Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
GEN2401	Numerical Analysis	2	1	-	3	30	-	70	3	100	2
ELC2402	Digital Signal Processing	2	1	-	3	50	-	100	3	150	2
ELC2403	Electronic Circuits	2	1	1	4	30	20	100	3	150	2
ELC2404	Field Theory	3	2	-	5	50	-	100	3	150	4
ELC2405	Communication Theory	3	1	1	5	30	20	100	3	150	3
GEN2406	Finance for Engineers	2	-	-	2	10	-	40	2	50	2
	Summer Training	-	-								
Total weekly Hours		14	6	2	22	Total CH					15
Second Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
ELC2407	Digital Communications	3	1	1	5	30	20	100	3	150	3
GEN2408	Probability Theory	2	1	-	3	30	-	70	3	100	2
ELC2409	Electronic Systems	2	1	1	4	30	20	100	3	150	2
ELC2410	Electromagnetic Waves	2	-	1	3	30	20	100	3	150	2
POW2411	Electrical Machines	2	-	1	3	20	10	70	3	100	2
ELC2412	Electronic Measurements and Instrumentations	2	1	1	4	20	10	70	3	100	2
Total weekly Hours		13	4	5	22	Total CH					13
						Total Grades				1500	

- Summer Field Training 1 at specialized sites outside the college for a period of four weeks after

the second semester exams of the second year. The result is recorded in the first semester of the third year.

Table No. (12)

Study Plan for Third Year – Department of Electronics and Communications Engineering

First Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
-----	Elective (1)	2	1	1	4	20	10	70	3	100	2
ELC3403	Optoelectronics	2	1	1	4	20	10	70	3	100	2
ELC3404	Digital Electronics	2	1	1	4	20	10	70	3	100	2
CSE3405	Control Systems	2	1	-	3	50	-	100	3	150	2
MEC3406	Project Management	2	-	-	2	10	-	40	2	50	2
	Field Training									100	
ELC3407	Telecommunication Systems	3	1	1	5	30	20	100	3	150	3
Total weekly Hours		13	5	4	22	Total CH					13
Second Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
GEN3408	Presentation Skills	2	-	-	2	10	-	40	2	50	2
ELC3409	Data Communication Systems	3	1	1	5	30	20	100	3	150	3
ELC3410	Wireless Communications	2	1	1	4	30	20	100	3	150	2
-----	Elective (2)	2	1	1	4	30	20	100	3	150	2
MEC3413	Engineering Economy	2	-	-	2	30	-	70	2	100	2
ELC3414	Optical Communications	3	1	1	5	30	20	100	3	150	3
Total weekly Hours		14	4	4	22	Total CH					14
						Total Grades				1500	

Elective Course List (1): (ELC 3401) Antennas – (ELC 3402) Microwave Engineering

Elective Course List (2): (ELC 3411) Microprocessors and Microcontrollers – (CSE 3412) Computer Interfacing

- Summer Field Training 2 in specialized sites outside the college for a duration of four weeks after the second semester exams for third-year students. The result is recorded in the first semester of the fourth year.

Table No. (13)

Study Plan for Fourth Year – Department of Electronics and Communications Engineering

First Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
ELC4401	Computer Networks	3	1	1	5	30	20	100	3	150	3
ELC4402	Digital System Design	2	1	-	3	50	-	100	3	150	2
-----	Elective (3)	2	1	-	3	30	-	70	3	100	2
-----	Elective (4)	2	1	1	4	20	10	70	3	100	2
ELC4411	Embedded Systems	2	1	-	3	50	-	100	3	150	2
	Field Training									100	
ELC4425	Graduation Project	-	4	-	4	--	--	--			2
Total weekly Hours		11	9	2	22	Total CH					13
Second Semester											
Course code	Course name	Weekly Hours				Grade Distribution			Exam Hours	Total Marks	CH
		LEC			Tot.	Midterm	Practical /Oral	Final			
			TUT	LAB							
ELC4412	Communication Networks	3	1	1	5	30	20	100	3	150	3
ELC4413	Mobile Communication	2	1	1	4	20	10	70	3	100	2
-----	Elective (5)	2	1	-	3	30	-	70	3	100	2
-----	Elective (6)	2	1	-	3	30	-	70	3	100	2
ELC4424	Information Theory	2	1	-	3	30	-	70	3	100	2
ELC4425	Graduation Project	-	4	-	4	100	-	100 (Discussion)		200	2
Total weekly Hours		11	9	2	22	Total CH					13
						Total Grades				1500	

Elective Course List (3): (ELC4403) Wireless Networks and Planning - (ELC4404) Medical Electronics - (CSE 4405) Machine Learning - (CSE4406) Digital Control Systems.

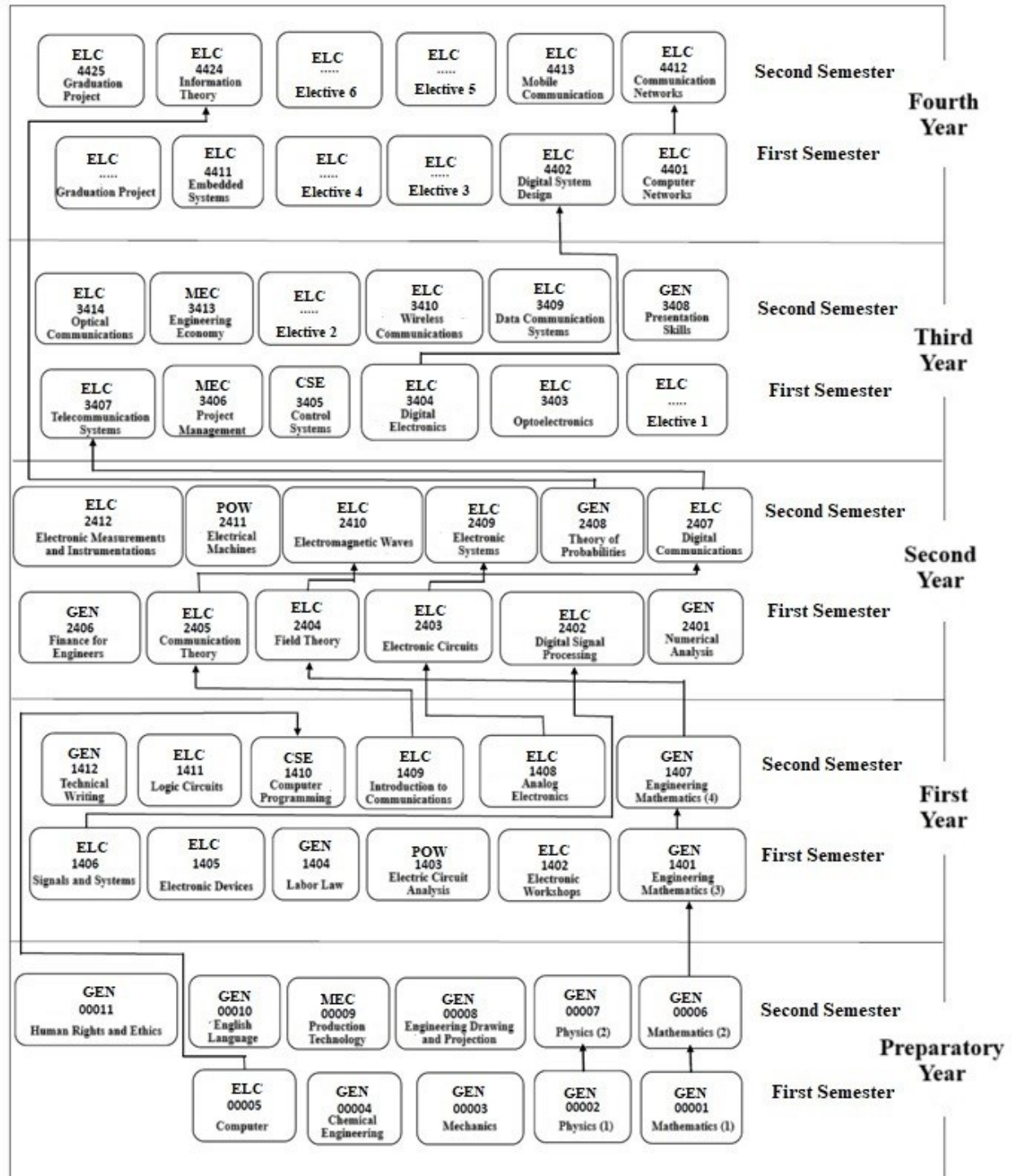
Elective Course List (4): (ELC 4407) Very Large-Scale Integration, VLSI - (ELC 4408) Fault Tolerant Techniques - (ELC 4409) Satellite Communication - (CSE 4410) Modeling and Simulation.

Elective Course List (5): (ELC 4414) Micro-Electro-Mechanical Systems, MEMS - (ELC 4415) Information and Network Security - (ELC 4416) Photonic Microsystems - (ELC 4417) Acoustics - (ELC 4418) Radar Systems.

Elective Course List (6): (ELC 4419) Nano-Electronics - (ELC 4420) Smart Antennas - (ELC 4421) Smart Grids and Renewable Energy - (ELC 4422) Selected Topics in Communications - (ELC 4423) Selected Topics in Electronics.

- The preparation of the graduation project for fourth-year students continues at a rate of 36 hours per week for four weeks, after the second semester exams.

Electronics and Communications Engineering Department



Preparatory: Chemistry instead of Chemical Engineering (or better change the Arabic title depending on the content.

Second Year: Probability Theory instead of Theory of Probabilities.