

Bachelor of Science in Electrical Engineering

TABLE 2: COURSE DISTRIBUTION PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
A' Semester								
1.	Required	Electric Circuits I	ECE-100	4	50'	13	52	6
2.	Required	Electric Circuits I Lab	ECE-101	3	50'	13	39	2
3.	Required	English Composition	ENGL-101	3	50'	13	39	6
4.	Required	Calculus I	MATH-190	4	50'	13	52	8
5.	Required	General Physics I	PHYS-150	5	50'	13	65	8
B' Semester								
1.	Required	Electric Circuits II	ECE-102	4	50'	13	52	6
2.	Required	Electric Circuits II Lab	ECE-103	3	50'	13	39	2
3.	Required	Digital Systems	ECE-110	4	50'	13	52	6
4.	Required	Electronics I	ECE-210	3	50'	13	39	6
5.	Required	Electronics I Lab	ECE-211	3	50'	13	39	2
6.	Required	Calculus II	MATH-191	4	50'	13	52	8

C' Semester								
1.	Required	Programming Principles I	COMP-111	4	50'	13	52	6
2.	Required	Digital Systems Lab	ECE-111	3	50'	13	39	2
3.	Required	Electronics II	ECE-212	4	50'	13	52	6
4.	Required	Electronics II Lab	ECE-213	3	50'	13	39	2
5.	Required	Linear Algebra I	MATH-280	3	50'	13	39	6
6.	Required	General Physics II	PHYS-160	5	50'	13	65	8
D' Semester								
1.	Required	Microprocessors	ECE-220	4	50'	13	52	6
2.	Required	Microprocessors Lab	ECE-221	3	50'	13	39	2
3.	Required	Calculus III	MATH-270	4	50'	13	52	8
4.	Required	Ordinary Differential Equations	MATH-330	3	50'	13	39	6
5.	Elective	Science Elective (General Physics III or General Chemistry)	PHYS-270 or CHEM-106	4 or 5	50'	13	52 or 65	8
E' Semester								
1.	Required	Numerical Methods Using MATLAB	ENGR-290	3	50'	13	39	6
2.	Required	Digital Integrated Circuits	ECE-310	3	50'	13	39	6
3.	Required	Signals and Systems I	ECE-331	4	50'	13	52	6

4.	Required	Electromagnetics I	ECE-340	3	50'	13	39	6
5.	Required	Electric Machines	ECE-360	3	50'	13	39	6
F' Semester								
1.	Required	Probability and Random Signals	ECE-332	3	50'	13	39	6
2.	Required	Electromagnetics II	ECE-342	3	50'	13	39	6
3.	Required	Principles of Communications	ECE-350	3	50'	13	39	6
4.	Required	Control Systems	ECE-364	3	50'	13	39	6
5.	Elective	Electrical Engineering Elective	ECE-xxx	3	50'	13	39	6
G' Semester								
1.	Required	Technical Writing and Research	BADM-332	3	50'	13	39	6
2.	Required	Signals & Systems II	ECE-431	3	50'	13	39	6
3.	Elective	Electrical Engineering Elective	ECE-xxx	3	50'	13	39	6
4.	Elective	Electrical Engineering Elective	ECE-xxx	3	50'	13	39	6
5.	Elective	Science or Business Elective	XXX-xxx	3	50'	13	39	6
H' Semester								
1.	Required	Senior Year Project	ECE-492	1	50'	13	13	6
2.	Elective	Electrical Engineering Elective	ECE-xxx	3	50'	13	39	6

3.	Elective	Electrical Engineering Elective	ECE-xxx	3	50'	13	39	6
4.	Elective	Science or Business Elective	XXX-xxx	3	50'	13	39	6
5.	Elective	Liberal Arts Elective	XXX-xxx	3	50'	13	39	6