



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 hours/ Academic semester	Number of ECTS
A' Semester								
1	Core	General Physics I: Mechanics and Waves and Thermodynamics	PHY 131	2 (Lectures) 1 (tutorial)	2 hour (Lectures) 1 hour (Tutorial)	13	65	6
2	Core	Mathematics for Engineers I	MAS 025	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	5
3	Core	Introduction to Engineering and Design for Electrical and Computer Engineers	ECE 100	2 (Lectures)	1,5 hour (Lectures)	13	39	5
4	Core	Introduction to Engineering and Design for Electrical and Computer Engineers Laboratory	ECE 101	1 (Laboratory)	3 hour (laboratory)	13	39	2



5	Core	Engineering Analysis and Modeling	ECE 105	2 (Lectures) 1 (tutorial)	1.5 hour (Lectures) 1.5 hour (Tutorial)	13	58.5	7
6	Core	General Advanced English	LAN 100	2 (Lectures)	1,5 hour (Lectures)	13	39	5
B' Semester								
1.	Core	General Physics II: Electricity and Magnetism and Optics	PHY 132	2 (Lectures) 1 (tutorial)	2 hour (Lectures) 1 hour (Tutorial)	14	70	6
2.	Core	Mathematics for Engineers II	MAS 026	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	5
3.	Core	Introduction to Programming Principles for Electrical and Computer Engineers	CS 034	2 (Lectures) 1 (tutorial) 1 (laboratory)	1,5 hour (Lectures) 1 hour (Tutorial)	14	84	7



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					2 hour (laboratory)			
4.	Core	Electrical Circuits and Networks	ECE 102	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	7
5.	Core	English for Technical Purposes	LAN 104	2 (Lectures)	1,5 hour (Lectures)	14	42	5
C' Semester								
1.	Core	Elements of Linear Algebra	MAS 029	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	5
2.	Core	Data Structures and Algorithms for Electrical and Computer Engineers	CS 035	2 (Lectures) 1 (tutorial) 1 (laboratory)	1,5 hour (Lectures) 1 hour (Tutorial) 2 hour (laboratory)	13	78	7



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3.	Core	Electronic Device Principles and Circuit Modeling	ECE 202	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	5
4.	Core	Circuits and Measurements Laboratory	ECE 203	1 (Lecture) 1 (laboratory)	1.5 hour (Lectures) 3.5 hour (laboratory)	13	65	5
5.	Core	Digital Logic Design	ECE 210	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1,5 hour (Tutorial)	13	58.5	5
6.	Core	Digital Systems Laboratory	ECE 211	1 (laboratory)	3 hour (laboratory)	13	39	3
D' Semester								
1.	Core	Mathematics for Engineers III	MAS 027	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	5



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2.	Core	Signals and Systems for Computer Engineers	ECE 221	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1,5 hour (Tutorial)	14	63	6
3.	Core	Electronic Devices and Circuits I	ECE 205	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	5
4.	Core	Computer Organization and Microprocessors	ECE 212	2 (Lectures) 2 (tutorials)	1,5 hour (Lectures) 1,5 hour (tutorial)	14	84	5
5.	Core	Computer Organization and Microprocessors Laboratory	ECE 213	1 (Lecture) 1 (laboratory)	1 hour (Lecture) 2 hour (laboratory)	14	42	3
6.	Core	Introduction to Random Signals and Systems	ECE 224	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	5
E' Semester								



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1.	Core	Discrete Analysis and Structures	ECE 311	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	6
2.	Core	Computer Architecture	ECE 312	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	5
3.	Core	Computer Architecture Laboratory	ECE 314	1 (Lecture) 1 (Laboratory)	1 hour (Lecture) 3 hour (Laboratory)	13	52	3
4.	Core	Iterative Methods	ECE 325	2 (Lectures) 1 (Laboratory)	1,5 hour (Lectures) 3 hour (Laboratory)	13	78	6
5.	Core Elective	CE Core Elective I	ECE 3xx*	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	6



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6.	Elective	General Free Elective Course I		2 (Lectures)	1,5 hour (Lectures)	13	39	5
F' Semester								
1.	Core	Engineering of Operating Systems	ECE 313	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1,5 hour (Tutorial)	14	63	5
2.	Core	Operating Systems and Networks Laboratory	ECE 316	1 (Lecture) 2 (Laboratories)	1 hour (Lecture) 1,5 hour (Laboratories)	14	56	3
3.	Core	Engineering of Computing	ECE 317	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1,5 hour (Tutorial)	14	63	6
4.	Core	Computer Networks	ECE 360	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	6



5.	Core Elective	CE Core Elective II	ECE 3XX	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	6
6.	Elective	General Free Elective Course II		2 (Lectures)	1,5 hour (Lectures)	14	42	5
G' Semester								
1.	Core	Thesis Project I / Capstone Design Project I	ECE 401/403			13		7
2.	Elective	ECE Technical Elective Course	ECE 4XX**	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	6
3.	Elective	ECE Technical Elective Course	ECE 4XX	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	13	52	6
4.	Elective	ECE Technical Elective Course	ECE 4XX	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures)	13	52	6



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					1 hour (Tutorial)			
5.	Elective	General Free Elective Course III		2 (Lectures)	1,5 hour (Lectures)	13	39	5
H' Semester								
1.	Core	Thesis Project II / Capstone Design Project II	ECE 402/404			14		7
2.	Core	Entrepreneurship and Innovation	PBA 468	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	7
3.	Elective	ECE Technical Elective Course	ECE4XX	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	6
4.	Elective	ECE Technical Elective Course	ECE 4XX	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	6



5.	Elective	ECE Technical Elective Course	ECE4XX	2 (Lectures) 1 (tutorial)	1,5 hour (Lectures) 1 hour (Tutorial)	14	56	6
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* Choose two 3xx courses out of a list of five core elective courses (see Section B.4 for details)

** Choose 6 out of a list of technical elective courses (shown in Annex I). At least three out of the six should belong to one area of concentration (see Section B.4 for details)