Study and Examination Plan

	Program-Specific Modules	Type	Assessment	Period	Status1	Sem.	CP		Jacobs Track Modules (General Education)	Type	Assessment	Period	Status1	Sem. (
ear 1 - CHC		-7/*-	Assessment						vacous Track Modules (General Education)	-7/10				
	ry CHOICE modules listed below, this is a requirement for the ECE pro	gram.					45							1
	Unit: General Electrical Engineering (default minor)						15		Unit: Methods / Skills					1
CH-210	Module: General Electrical Engineering I		,		m	1_	7.5	JTMS-MAT-09	Module: Calculus and Elements of Linear Algebra I				m	1
CH-210-A CH-210-B	General Electrical Engineering I Lecture General Electrical Engineering Lab I	Lecture Lab	Written exam	Examination period		-	5 2.5	JTMS-09	Calculus and Elements of Linear Algebra I	Lecture	Written exam	Examination period		
CH-211	Module: General Electrical Engineering II (pre-requisites GenEE I)	Lab	Lab report	During the semester	m	,	7.5	JTMS-MAT-10	Module: Calculus and Elements of Linear Algebra II		1		m	2
H-211-A	General Electrical Engineering II Lecture	Lecture	Written exam	Examination period		TĨ	5	JTMS-10	Calculus and Elements of Linear Algebra II	Lecture	Written exam	Examination period		
TH-211-B	General Electrical Engineering Lab II	Lab	Lab report	During the semester			2.5							
							30		Unit: Language				m	
CH-230 CH-230-A	Module: Programming in C and C++ Programming in C and C++	Lecture	Written examination	Examination period	m	1	7.5 2.5		German is the default language. Native German speakers take mo	odules in another	offered language.			
H-230-A	Programming in C and C++ Tutorial	Turorial	Practical Assessment	During the semester			5	JTLA	Module: Language 1		1		m	1 2
CH-140	Module: Classical Physics			During the semester	m	1	7.5	JTLA-xxx	Language 1	Seminar	Various	Various	me	
CH-140-A	Classical Physics	Lecture	Written exam	Examination period			5							
H-140-B	Classical Physics Lab	Lab	Lab report	During the semester			2.5							
CH-232 CH-232-A	Module: Introduction to Computer Science Introduction to Computer Science	Lecture	Written examination	Examination period	m	2	7.5	JTLA-xxx	Module: Language 2				m	2 2
	vo listed mandatory elective CHOICE modules:	Lecture	Written Camination	Examination period				JTLA-xxx	Language 2	Seminar	Various	Various	me	
CH-220	Module: Introduction to Robotics and Intelligent Systems			•	me	2	7.5							
H-220-A	Introduction to Robotics and Intelligent Systems	Lecture	Written exam	Examination period		\perp	5							
CH-220-B	Introduction to Robotics and Intelligent Systems Lab Module: Applied Mathematics	Lab	Lab report	F	me	,	2.5 7.5							
H-202-A	Advanced Calculus	Lecture	Written exam		me		5	-						
TH-202-B	Numerical Software Lab	Lab	Lab report	Examination period			2.5							
Year 2 - COR	E						45							1
ake all CORE n	odules listed below													
	Unit: Signal Processing (default minor)						15		Unit: Methods / Skills					1
CO-520	Module: Signals and Systems				m	3	7.5	JTMS-MAT-12	Module: Probability and Random Processes				m	3
O-520-A O-520-B	Signals and Systems Lecture Signals and Systems Lab	Lecture Lab	Written exam Lab report	Examination period During the semester		-	5 2.5	JTMS-12	Probability and Random Processes	Lecture	Written exam	Examination period		
CO-521	Module: Digital Signal Processing	Lao	Lab report	During the semester	m	4	7.5	JTMS-MAT-13	Module: Numerical Methods				m	4
O-521-A	Digital Signal Processing Lecture	Lecture	Written exam	Examination period			5	JTMS-13	Numerical Methods	Lecture	Written exam	Examination period		
O-521-B	Digital Signal Processing Lab	Lab	Lab report	During the semester			2.5							
	Unit: Communications						10		Unit: Language					
O-522 O-522-A	Module: Communications Basics Communications Basics Lecture		W 10	B 1 2 1 1	m	3	5	JTLA	German is the default language. Native German speakers take mo	odules in another	offered language.	•		
O-522-A O-522-B	Communications Basics Lecture Communications Basics Lab	Lecture Lab	Written exam Lab report	Examination period During the semester			2.5	JTLA-xxx	Module: Language 3 Language 3	Seminar	Various	Various	me	3 2
O-523	Module: Wireless Communication		Lab report		m	4	5	JTLA	Module: Language 4	,			m	4 2
O-523-A	Wireless Communication I	Lecture	Written exam	Examination period			5	JTLA-xxx	Langauge 4	Seminar	Various	Various	me	
CO-524	Unit: Electromagnetics and Information Theory						10 5							
O-524-A	Module: Electromagnetics Electromagnetics	Lecture	Written exam	Examination period	m	3	5							
O-525	Module: Information Theory	Lecture		Lamination period	m	4	5							
O-525-A	Information Theory	Lecture	Written exam	Examination period			5							
	Unit: Hardware						10							
CO-526	Module: Electronics				m	3	5							
O-526-A O-526-B	Electronics Lecture Electronics Lab	Lecture Lab	Written exam Lab report	Examination period During the semester		-	2.5							
CO-527	Module: PCB design and measurement automation	Lao	Lab report	During the semester	m	4	5							
O-527-A	PCB design and measurement automation	Lab	Written exam	Examination period			5							
		Lao	Lab report	During the semester										
Year 3 - CAR	EER						45							1
TA INT OOO	Module: Internship / Startup and Career Skills					4/5	15	_	Unit: Big Questions					-
CA-INT-900					- 111	4/5								'
CA-INT-900-0	Internship / Startup and Career Skills	Internship	Report or Businessplan	During the 5 th semester			15	JTBQ	Module: Big Questions				m	5/6
CA-ECE-800	Module: Thesis / Seminar ECE				m	6	15	Take a total of 10 C	CP of Big Questions modules with each 2.5 - 5 CP	Lecture	Various	Various	me	1
CA-ECE-800-T	Thesis ECE	Thesis	Thesis	15 th of May			12		Unit: Community Impact Project					
CA-ECE-800-S	Seminar ECE Unit: Specialization ECE	Seminar	Presentation	During the semester	m	5/6	15	JTCI-CI-950 JTCI-950	Module: Community Impact Project Community Impact Project	Project	Project	Examination period	m	5
Taka a tatal c C I	•					3/0	13	3 1 C1-930	Community impact r toject	rioject	Project	LAMINIAUON PETIOG		
	CP of specializatopn modules Wireless Communication II	Lecture	Win-	Examination period	me	5								
CA-S-ECE-801 CA-S-ECE-802	Coding Theory	Lecture	Written exam Written exam	Examination period	me	5	5							
A-S-ECE-802	Digital Design	Lecture/Lab	Written exam	Examination period	me	5	5							
A-S-ECE-804	Radio-Frequency (RF) Design	Lecture	Written exam	Examination period	me	6	5							1
Total CP														