## **English taught Exchange Programs**

## **Courses & ECTS Credits** Software Engineering & Digital **Transformation**

Course	Module	ECTS	Course	Module	ECTS
Semester 1 / Autu	umn semester: 30 Credits / 354	hours	Semester 2 / Spr	ing semester: 30 Credits / 340	hours
Computer Science 1	Introduction to Object Oriented Programming with Java	8	Computer Science 2	Enterprise Network Object Oriented Programming with Java EE	13
	Fundamentals of Data Communication and Networking			Development of Mobile Application	
	Fundamentals of Web Centric Development			Framework (C#) Analysis & Design with UML	
	Binary Logic & Digital Functions		Big Data: Challenges & Opportunities		
Digital Electronics	LabView	9	Business Intelligence	PL/SQL Programming for Databases	12
	C Programming			Artificial Intelligence: Principles & Techniques	
Communication & Language	Cross Cultural Awareness and			Data Driven Applications with R	
	Awareness and Working in a Team		Communication & Language 2	Oral Communications & Presentation Skills	5
	French as a Foreign Language / English as a Foreign Language	6		French as a Foreign Language / English as a Foreign Language	
	Fundamentals of Web Centric Development				
Specialized	Java Project	7	Course	Module	ECTS
Courses for SEDT	Database Management Systems	,	Semester 3: 30 Credits / 336 hours		
				Cloud Computing	
dents who choose to do the third semester not have the option of returning to SELEC to pursue a Master's Program.			Information Systems	Information Systems & Organizations	10
				Information System Security	
				Web-centric Development & ASP.NET	
				Management Control & Business	
A A			Business Management	Marketing in a Technical Environment	7
X		À		Intellectual Property & Internet Protection Laws	
A			Project Development &	Project management	9
			Management	R & D Project	
			Foreign Language	French as a Foreign Language / English as a Foreign Language	4

Students will not I ESIGELE



## Courses & ECTS Credits Electronic Embedded Systems

Course	Module	ECTS	Course	Module	ECTS	
Semester 1 / Autumn semester: 30 Credits / 354 hours			Semester 2 / Spring semester: 30 Credits / 340 hours			
	Introduction to Object Oriented Programming with Java	8	Digital Systems	Microprocessors VHDL & Logic Synthesis	8	
Computer Science 1	Fundamentals of Data Communication and Networking			Communication Busses		
			Embedded Operating Systems	Real Time Operating Systems	6	
	Fundamentals of Web Centric Development			Embedded Linux		
	Binary Logic & Digital Functions		Embedded Software	Embedded C programming	6	
<b>Digital Electronics</b>	LabView	9		Analysis & Design with UML		
	C Programming			Embedded Java		
	Cross Cultural Awareness and Working in a Team	6	Instrumentation	Smart Sensors	c	
Communication &				Specific Instrumentation	6	
Language	French as a Foreign Language / English as a Foreign Language		Communication & Language 2	French as a Foreign Language /English as a Foreign Language	4	
	Bibliographical Study	7				
Specialized Courses for EES	Digital Electronics Project					
	Fundamentals of Electronics					

Students who choose to do the third semester will not have the option of returning to ESIGELEC to pursue a Master's Program.



Course	Module	ECTS					
Semester 3: 30 Credits / 330 hours							
	MtoM Communication						
Embedded Communication	Python Programming & Image Treatments	10					
	Android Programming						
	System on Chip						
Embedded Electronics	DSP Processors	6					
	Safety Systems						
	Oral Communication & Presentation Skills						
Communication & Language 3	French as a Foreign Language / English as a Foreign Language R&D Project	5					
Project Development &	Project Management	9					
Management	R&D Project	3					

