

Bachelor Course Offerings Faculty of EEMCS

Course Code	Course Name	Level	Q	Offered by	Pre-requisites
201300073	Introduction to Business & IT ¹	B1	1A	BIT	
201300070	Pearls of Computer Science ¹	B1	1A	TCS, BIT	
201400217	Computer Systems	B2	1A	TCS, EL	
201700132	We Create Identity	B1	1A	CREATE	
201700087	Introduction to Electrical Engineering & Electronics ¹	B1	1A	EL	
201700017	Smart Technology	B3	1A	CREATE	
201700016	New Media	B3	1A	CREAT	
201500057	Smart Spaces	B3	1A	TCS, CREATE	
201500066	Serious Gaming	B3	1A	BIT	
201300132	Smart Environments	B1	1B	CREATE	
201500111	Software Systems ²	B1	1B	TCS, BIT	Basic Calculus
201200097	Electric Circuits ²	B1	1B	EL	Basic Calculus
201700145	Systems & Control	B2	1B	EL	Calculus: differential equations
201500053	Cyber-Physical Systems	B3	1B	TCS, EL	
201500025	Web Science	B3	1B	TCS, BIT, AM, CREATE	
201200098	Electronics ³	B1	2A	EL	
201300108	Business Intelligence & IT ³	B1	2A	BIT	
201300182	Signals & Uncertainty ³	B1	2A	AM	
201400431	Network Systems	B2	2A	TCS, EL	
201400467	From Product Design to Online Business	B2	2A	BIT	
201400433	Discrete Structures & Efficient Algorithms	B2	2A	AM, TCS	Discrete Mathematics
Course Code	Course Name	Level	Q	Offered by	Pre-requisites
201400535	Fields & Electromagnetism	B1	2B	AM	
201500310	Business Innovation & IT Project Management	B2	2B	BIT	
201400537	Programming Paradigms	B3	2B	TCS, BIT	Programming in Java

¹In case a student already has completed a basic Calculus course *Mathematics A + B1* can be replaced by [Introduction to Mathematical Analysis \(201600167\)](#)

² In case a student already has completed an advanced Calculus course *Mathematics B2* can be replaced by [Introduction to Mathematical Analysis \(201400385\)](#)

³In case a student already has completed a Linear Algebra course *Mathematics C1* can be replaced by [Introduction to Mathematical Analysis \(201400385\)](#)

AM = Applied Mathematics

BIT = Business & IT

CREATE = Creative Technology

EL = Electrical Engineering

TCS = Technical Computer Science

B1 = 1st year bachelor course

B2 = 2nd year bachelor course

B3 = 3rd year bachelor course