



UNDERGRADUATE DEGREE PROGRAMME IN TELECOMMUNICATIONS SYSTEMS ENGINEERING (CODE 59SC)

ACADEMIC YEAR 2014-2015

FIRST YEAR

CODE	COURSES	ECTS	TYPE	SEMESTER	DEPARTMENT CODE
595000301	LINEAR ALGEBRA	6	Elem	1 st and 2 nd	5904
595000303	CIRCUITS ANALYSIS I	6	Elem	1 st and 2 nd	5902
595000302	CALCULUS I	6	Elem	1 st and 2 nd	5904
595000305	INTRODUCTION TO TELECOMMUNICATIONS	3	Comp	1 st	5901
595000304	PROGRAMMING I	6	Elem	1 st and 2 nd	5903
595000300	INTRODUCTORY WORKSHOP ON ENGINEERING	3	Comp	1 st	5905
595000307	CIRCUITS ANALYSIS II	6	Elem	1 st and 2 nd	5902
595000309	CALCULUS II	6	Elem	1 st and 2 nd	5904
595000306	PROFESSIONAL COMMUNICATION SKILLS	3	Comp	2 nd	1004
595000308	ELECTRONICS I	6	Elem	1 st and 2 nd	5905
595000310	PROGRAMMING II	6	Elem	1 st and 2 nd	5903
595000311	SEARCH TECHNIQUES AND INFORMATION SYSTEMS		Comp	2 nd	5903

SECOND YEAR

CODE	COURSES	ECTS	TYPE	SEMESTER	DEPARTMENT CODE	
595000312	ELECTROMAGNETISM AND WAVES	6	Elem	1 st and 2 nd	0915	
595000314	ELECTRONICS II	6	Comp	1 st and 2 nd	5905	
595000313	STATISTICS AND STOCHASTIC PROCESSES	6	Elem	1 st and 2 nd	5904	
595000315	TELECOMMUNICATIONS NETWORKS AND SERVICES	6	Comp	1 st and 2 nd	5903	
595000316	SIGNALS AND SYSTEMS	6	Comp	1 st and 2 nd	5902	
595000317	SCIENCE. TECHNOLOGY AND SOCIETY	3	Comp	1 st and 2 nd	5903	
595000322	ANALOG ELECTRONICS	6	Comp	2 nd	5901	
595000320	MICROPROCESSORS	6	Comp	1 st and 2 nd	5905	
595000324	DIGITAL SIGNAL PROCESSING	4.5	Comp	1 st and 2 nd	5902	
595000318	WAVE PROPAGATION	4.5	Comp	1 st and 2 nd	0915	
595000321	00321 COMMUNICATION THEORY		Comp	1 st and 2 nd	5901	

THIRD YEAR

CODE	COURSES	ECTS	TYPE	SEMESTER	DEPARTMENT CODE
595000323	ECONOMICS AND BUSINESS MANAGEMENT	4.5	Comp	1 st	0515
595000328	COMMUNICATIONS ELECTRONICS I	6	Comp	1 st	5901
595000326	COMMUNICATIONS SIGNAL PROCESSING	4.5	Comp	1 st	5901
595000319	AUDIOVISUAL SYSTEMS	4.5	Comp	1 st	5901
595000325	OPERATING SYSTEMS	4.5	Comp	1 st	5903
595000327	WAVE TRANSMISSION AND PROPAGATION	6	Comp	1 st	5901
595000331	COMMUNICATIONS ELECTRONICS II	6	Comp	2 nd	5901
595000329	COMPUTER NETWORKS	4.5	Comp	2 nd	5903
595000332	TELECOMMUNICATION SYSTEMS	4.5	Comp	2 nd	5901
595000330	HIGH FREQUENCY TECHNOLGIES	6	Comp	2 nd	5901
	ELECTIVE COURSES/INTERNSHIP CREDITS	9	Elec		

FORTH YEAR

CODE	COURSES		TYPE	SEMESTER	DEPARTMENT CODE	
595000333	ENGLISH FOR PROFESSIONAL AND ACADEMIC COMMUNICATION (*)	6	Comp	1 st and 2 nd	1004	
595000334	RADIOCOMMUNICATION SYSTEMS	6	Comp	1 st	5901	
595000335	ANTENNAS AND ELECTROMAGNETIC COMPATIBILITY	4.5	Comp	1 st	5901	
	ELECTIVE COURSES/INTERNSHIP CREDITS	13.5	Elec	1 st		
595000336	PROJECT MANAGEMENT	4.5	Comp	2 nd	0515	
595000337	MICROELECTRONIC DESIGN	4.5	Comp	2 nd	5905	
595000340	FINAL DEGREE PROJECT*	12	Comp	1 st and 2 nd	ALL	
	ELECTIVE COURSES/INTERNSHIP CREDITS	9	Elec	2 nd		

(*) A B2 English certificate is required for the enrolment.

TYPE OF COURSES:

- "Elem" Elementary.
- "Comp" Compulsory."Elec" Elective.

ELECTIVE COURSES

TYPE	SPEC	SEMESTER	YEAR	CODE	COURSES	ECTS	REQUIREMENTS	DEPT. CODE
Α	SC	1 st	4 th	595010341	COMMUNICATION SYSTEM ARCHITECTURE	4.5	330	5901
			4 th	595010343	OPTICAL COMMUNICATION SYSTEMS	4.5	322/327	5901
		2 nd	4 th	595010342	MOBILE COMMUNICATION	4.5	332 334	5901
			4 th	595010344	ANTENNA DESIGN	4.5	335	5901
			4 th	595010345	RADAR TECHNOLOGY	4.5	330/334	5901
В	EC	1 st	•	595023027	DIGITAL DESIGN I	4.5 314		5905
				595023028	MICROPROCESSOR-BASED SYSTEMS	6	320	5905
		2 nd		595023023	ANALOG ELECTRONICS I	6	308	5905
				595023033	PRODUCTION TECHNOLOGIES OF ELECTRONICS SYSTEMS	4.5		0910
	SO	1 st		595023126	AUDIO ENGINEERING I	4.5	23122	5901
				595023128	IMAGE AND VIDEO TECHNOLOGIES	6	23122	5901
		2 nd		595023122	SOUND AND IMAGES FUNDAMENTALS	6		5901
				595023131	AUDIO ENGINEERING II	6	23126/23122	5901
	TL	1 st		595023228	TRANSMISSION SYSTEMS	6	321	5903
			MOBILE COMMUNICATIONS NETWORKS	6	315/329	5903		
		2 nd		595023222	PROGRAMIMING		304/310	5903
				595023231	NETWORKS AND SERVICES SECURITY	6	310/315/329	5903
С	-	1 st		595030360	RENEWABLE ENERGY	3		0910
				595030361	SMART HOME	3	315	5903
				595030362	TELECOMUNNICATION COMMON INFRASTRUCTURES	3		5901
	1 st and 2 nd		2 nd	595030363	INTRODUCTION TO PROFESSIONAL AND ACADEMIC COMMUNICATION I	3		1004
				595030371	INTRODUCTION TO PROFESSIONAL AND ACADEMIC COMMUNICATION II	3	30363 o B2	1004
		2 nd		595030370	MANAGEMENT OF TECHNOLOGICAL INNOVATION	3		5905
				595030372	DISCRETE MATHEMATICS	3		5904
				595030373	DINAMICAL SYSTEMS	3	301/302/309	5904
				595030374	CIS TO DEFENCE	3		5901
PE		1 st and	2 nd		P1 INTERNSHIP CREDITS	3	*	
					P2 INTERNSHIP CREDITS	4.5	*	
					P3 INTERNSHIP CREDITS	6	*	
					P4 INTERNSHIP CREDITS	9	*	
				595030379	P5 INTERNSHIP CREDITS	12	*	

ELECTIVE COURSES

• Each student must pass at least 31.5 elective ECTS to complete the degree.

TYPES OF ELECTIVE COURSES

Each academic year, the School Board will establish the range of optional courses.

A Type - Elective courses to strengthen the specialty.

B Type - Elective courses to strengthen other specialties.

C Type - Elective courses for the four degrees.

PE - Internship credits.

ADMISSION REQUIREMENTS FOR ELECTIVE COURSES

To enroll on an elective course, every student must have taken or passed the course(s) shown in the **REQUIREMENTS** box.

SPEC.:

EC: Electronics for Communications. SC: Telecommunications Systems.

SO: Image and Sound.

TL: Telematics.

DEPARTMENT CODES

5901: Audiovisual Engineering and Communications.

5902: Circuits and Systems Engineering.

5903: Telematics Engineering and Architectures.

5904: Applied Mathematics to Telecommunications.

5905: Electronic and Control Systems.

0515: Organization Engineering, Business Management and Statistics.

0910: Departmental Section of Physical Electronics.

0915: Departmental Section of Applied Physics for Information Technologies.

1004: Departmental Section of Linguistics Applied to Science and Technology.