

BACHELOR ENGINEERING PROGRAM IN SOUND AND IMAGE ENGINEERING (CODE 59S0)

ACADEMIC YEAR 2022-2023

FIRST YEAR

CODE	COURSES	ECTS	TYPE	SEMESTER	DEPARTMENT CODE
595000101	LINEAR ALGEBRA	6	Elem	1 st	D540
595000103	CIRCUITS ANALYSIS I	6	Elem	1 st	D250
595000102	CALCULUS I	6	Elem	1 st	D540
595000105	INTRODUCTION TO TELECOMMUNICATIONS	3	Comp	1 st	D250
595000104	PROGRAMMING I	6	Elem	1 st	D230
595000100	INTRODUCTORY WORKSHOP ON ENGINEERING	3	Comp	1 st	D250
595000107	CIRCUITS ANALYSIS II	6	Elem	2 nd	D250
595000109	CALCULUS II	6	Elem	2 nd	D540
595000106	PROFESSIONAL COMMUNICATION SKILLS	3	Comp	2 nd	D240
595000108	ELECTRONICS I	6	Elem	1 st and 2 nd	D230
595000110	PROGRAMMING II	6	Elem	1 st and 2 nd	D230
595000111	SEARCH TECHNIQUES AND INFORMATION SYSTEMS	3	Comp	2 nd	D230

SECOND YEAR

CODE	COURSES	ECTS	TYPE	SEMESTER	DEPARTMENT CODE
595000112	ELECTROMAGNETISM AND WAVES	6	Elem	1 st and 2 nd	D510
595000114	ELECTRONICS II	6	Comp	1 st and 2 nd	D230
595000113	STATISTICS AND STOCHASTIC PROCESSES	6	Elem	1 st and 2 nd	D540
595000115	TELECOMMUNICATIONS NETWORKS AND SERVICES	6	Comp	1 st	D230
595000116	SIGNALS AND SYSTEMS	6	Comp	1 st and 2 nd	D250
595000117	SCIENCE. TECHNOLOGY AND SOCIETY	3	Comp	1 st and 2 nd	D230
595000122	SOUND AND IMAGES FUNDAMENTALS	6	Comp	2 nd	D250
595000120	MICROPROCESSORS	6	Comp	1 st and 2 nd	D230
595000124	DIGITAL SIGNAL PROCESSING	4.5	Comp	1 st and 2 nd	D250
595000118	WAVE TRANSMISSION AND PROPAGATION	4.5	Comp	1 st and 2 nd	D510
595000121	COMMUNICATION THEORY	6	Comp	1 st and 2 nd	D250

THIRD YEAR

CODE	COURSES	ECTS	TYPE	SEMESTER	DEPARTMENT CODE
595000123	ECONOMICS AND BUSINESS MANAGEMENT	4.5	Comp	1 st	D400
595000127	ACOUSTIC ENGINEERING	6	Comp	1 st	D250
595000126	AUDIO ENGINEERING I	4.5	Comp	1 st	D250
595000119	AUDIOVISUAL SYSTEMS	4.5	Comp	1 st	D250
595000125	OPERATING SYSTEMS	4.5	Comp	1 st	D230
595000128	IMAGE AND VIDEO TECHNOLOGIES	6	Comp	1 st	D250
595000130	ROOM ACOUSTICS	6	Comp	2 nd	D250
595000131	AUDIO ENGINEERING II	6	Comp	2 nd	D250
595000132	VIDEO ENGINEERING	4.5	Comp	2 nd	D250
595000129	COMPUTER NETWORKS	4.5	Comp	2 nd	D230
	ELECTIVE SUBJECTS/INTERNSHIP CREDITS	9	Elec		

FORTH YEAR

CODE	COURSES	ECTS	TYPE	SEMESTER	DEPARTMENT CODE
595000133	ENGLISH FOR PROFESSIONAL AND ACADEMIC COMMUNICATION (*)	6	Comp	1 st and 2 nd	D240
595000134	ELECTROACOUSTIC SYSTEMS	6	Comp	1 st	D250
595000135	AUDIOVISUAL CONTENT DISTRIBUTION	4.5	Comp	1 st	D250
	ELECTIVE SUBJECTS/INTERNSHIP CREDITS	13.5	Elec	1 st	
595000136	PROJECT MANAGEMENT	4.5	Comp	2 nd	D400
595000137	ENVIRONMENTAL ACOUSTIC	4.5	Comp	2 nd	D250
595000140	FINAL DEGREE PROJECT *	12	Comp	1 st and 2 nd	ALL
	ELECTIVE SUBJECTS/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	
A	SO	1 st	4 th	595010143	NOISE AND VIBRATION CONTROL	4.5	122/127/130	D250	
			4 th	595010141	AUDIO ENGINEERING III	4.5	124/126/131	D250	
			4 th	595010144	AUDIO ENGINEERING IV	4.5	122/126/131	D250	
		2 nd	3 st	595010145	IMAGE SYNTHESIS AND COMPUTER ANIMATION	4.5	122/128	D250	
			3 st	595010142	ADVANCED SIGNAL PROCESSING	4.5	116/124/126	D250	
			4 th	595010146	SOUND REINFORCEMENT	4.5	122/127/130 /134	D250	
			4 th	595010147	DIGITAL IMAGE PROCESSING	4.5	124/122/128	D250	
B	EC	1 st		595021027	DIGITAL DESIGN I	4.5	114	D230	
				595021028	MICROPROCESSOR-BASED SYSTEMS	6	120	D230	
		2 nd		595021023	ANALOG ELECTRONICS I	6	108	D230	
				595021033	PRODUCTION TECHNOLOGIES OF ELECTRONICS SYSTEMS	4.5	--	D510	
	SC	1 st		595021327	WAVE TRANSMISSION AND PROPAGATION	6	118	D250	
				595021328	COMMUNICATIONS ELECTRONICS I	6	21322/21023	D250	
		2 nd		595021322	ANALOG ELECTRONICS	6	108/114	D250	
				595021331	COMMUNICATIONS ELECTRONICS II	6	21328	D250	
	TL	1 st		595021228	TRANSMISSION SYSTEMS	6	121	D230	
				595021234	MOBILE COMMUNICATIONS NETWORKS	6	115/129	D230	
		2 nd		595021222	ADVANCED APPLICATION PROGRAMMING	6	104/110	D230	
				595021231	NETWORKS AND SERVICES SECURITY	6	110/115/129	D230	
C	--	1 st / 2 nd		595040064	AIMING AT B2 IN ENGLISH	3	--	D240	
				595040349	BIOMEDICAL DIGITAL SIGNAL PROCESSING	4.5	--	D250	
		1 st		595040066	INTRODUCTION TO MACHINE LEARNING	3	--	D230	
				595040253	MULTI-PARADIGM PROGRAMMING FOR ICT	4,5	--	D230	
				595040049	PROGRAMMING IN LABVIEW	4.5	--	D510/D230	
				595040160	RENEWABLE ENERGY	3	--	D510	
				595040161	SMART HOME	3	--	D230	
				595040162	TELECOMUNICATION COMMON INFRASTRUCTURES	3	--	D250	
			2 nd		595040174	CIS TO DEFENCE	3	--	D250
				595040172	DISCRETE MATHEMATICS	3	--	D540	
				595040173	DYNAMICAL SYSTEMS	3	--	D540	
				595040254	EMERGING ICT FOR SUSTAINABILITY	4,5	--	D230	
				595040050	FUNDAMENTALS OF ENERGY HARVESTING	4.5	--	D230	
				595040170	MANAGEMENT OF TECHNOLOGICAL INNOVATION	3	--	D230	
				595040165	WOMEN IN SCIENCE AND TECHNOLOGY	3	--	D510	

TYPE	SEMESTER	CODE	COURSES	ECTS
PE	1 st and 2 nd	595030175	P1 INTERNSHIP CREDITS	3
		595030176	P2 INTERNSHIP CREDITS	4.5
		595030177	P3 INTERNSHIP CREDITS	6
		595030178	P4 INTERNSHIP CREDITS	9
		595030179	P5 INTERNSHIP CREDITS	12
		595030187	P6 INTERNSHIP CREDITS	15

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

D230: Telematics and Electronic Engineering.

D240: Linguistics Applied to Science and Technology.

D250: Audiovisual and Communications Engineering.

D400: Organization Engineering, Business Management and Statistics.

D510: Physical Electronics, Electrical Engineering and Applied Physics.

D540: Mathematics Applied to Information and Communication Technologies.