Computer Engineering Curriculum IU - IUS

	International Unive	ersity of Saraiev	o. F	ас	ulty of	En	aineerir	ng and Natural S	ciences (FENS	3)		
		iate Curriculum								<u> </u>		
Academic Year: 2022-2023												
		Click on the cou	ırs	e c	ode or	title	e to see					
Semester I						Semester II						
Code	Title	Prerequisites	T	Р	ECTS		Code	Title	Prerequisites	Т	Р	ECTS
ELIT100	Academic English and Effective Communication		2		6		ELIT2 00	Critical Reading and Writing		2	1	6
MATH101	Calculus I		3	2	6		CS105	Advanced Programmi ng	CS103	3	2	6
CS103	Introduction to Programming		3	2	6		MATH 102	Calculus II	MATH101	3	2	6
NS102	Physics		3	2	6		MATH 201	Linear Algebra	MATH101	3	2	6
ENS101	Introduction to Engineering		2	1	3		xxx	University Elective I *	See Table 1			3
XXX	Foreign Language Elective I		0	2	3		XXX	Foreign Language Elective II	For. Lang. Ele. 1	0	2	3
		Semester To	ota	=	30			Semester Total			•	30
	Semeste				•		Semester IV					
Code	Title	Prerequisites	T	Р	ECTS		Code	Title	Prerequisites	T	Р	ECTS
MATH203	Introduction to Probability and Statistics	MATH101	3	2	6	-	ENS20 3	Electrical Circuits I	MATH101	3	2	6
MATH204	Discrete Mathematics		3	2	6		CS304	Computer Architectur e	CS105	3	2	6
XXX	Faculty Elective I	See Table 2			6		MATH 205	Numerical Analysis	MATH102	3	2	6
CS206	Data Structures	CS105	3		6		CS306	Database Managem ent	CS105	3	2	6
MATH202	Differential Equations	MATH102	3		6		CS207	Analysis of Algorithms	CS201 and MATH20 4	3	2	6
		Semester To	ota	=	30			Semester Total	=			30

Elective Pools

Code	Title	Prerequisites	Т	Р	ECTS		
Social Sciences Subpool							
CULT101	Understanding Cultural Encounters		2	0	3		
NS111	Understanding Nature and Knowledge		2	0	3		
NS112	Understanding Science and Technology		2	0	3		
SPS140	Understanding Religion		2	0	3		
ECON105	Understanding Business		2	0	3		
ECON107	Python		1	1	3		
ECON108	Matlab		1	1	3		
ECON111	Introduction to Microeconomics		3	0	6		
ELIT101	Introduction to Literature		2	1	6		
HUM100	Social Responsibility and Sustainable Development		2	0	3		
IR101	Introduction to International Relations		3	0	6		
MAN102	Management		3	0	6		
POLS102	Introduction to Political Science		3	0	6		
PSY103	Introduction to Psychology		3	0	6		
SOC102	Introduction to Sociology		3	0	6		
SPS103	Law and Ethics		3	0	6		
SPS120	Critical Thinking		3	0	6		
SPS150	World History		3	0	6		
				1	i		
VA121	History of Art I		3	0	6		
	Language Elective Su	bpool		1 -			
XXX	Foreign Language Elective I (&)		2	0	3		
XXX	Foreign Language Elective II (&)	For. Lang. Ele.	2	0	3		

(&) Scholarship students will take either Turkish Language I and II or Bosnian Language I and II.

	Table 2: Faculty Electives			
Code	Title	Prerequisites	ECTS	
EE201	Analog Electronics I	ENS203	6	
EE202	Electrical Circuits II	ENS203	6	
EE305	Instrumentation and Measurements	ENS203	6	
ENS201	Electromagnetics	MATH102	6	
ENS202	Thermodynamics	NS102	6	
		and MATH10 2		
ENS205	Materials Science		6	1
ENS206	System Modeling	MATH202	6	١
ENS207	Engineering Graphics		6	1
ENS208	Introduction to Manufacturing Systems	MATH101	6	١
ENS209	Statics	MATH101	6	١
ENS211	Signals and Systems	MATH102	6	
ENS302	Engineering Optics	NS102	6	
MATH207	Vector Calculus	MATH101	6	
MATH209	Discrete Mathematics II	MATH204	6	
MATH306	Statistical Modeling	MATH203	6	
ME304	Fluid Mechanics	MATH202	6	
ME306	Heat and Mass Transfer	MATH202	6	
NS122	Physics II	NS102	6	
NS209	Genetics I		6	
IE301	Production Planning I	MATH203	6	
IE303	Operations Research I	MATH201	6	
IE307	Quality and Reliability Engineering		6	
	Natural Sciences Su	ıbpool		
CS100	Computer Skills		0	ľ
ENS105	The Brain		3	ĺ
NS103	Biology		3	
NS104	General Chemistry		3	Ĺ
	Arts Subpool			
ARCH107	Understanding Art and Architecture		2	

^{***} In accordance with Istanbul University Associate and Undergraduate Program Internship Directives, completing compulsory summer internships is a requirement for graduation.