

Study Programme Overview ***Computer Science and Engineering, BSc (2026–2031)***

Name of the institution	University “Isa Boletini” in Mitrovica
Faculty / Department	Faculty of Mechanical and Computer Engineering
Name of the study programme	Computer Science and Engineering
Qualification level according to the NQF	Level VI
Name of the diploma or academic degree	Bachelor of Science in Computer Science and Engineering
ECTS	180
Minimum duration of the programme	3 years
Number of students per year	160

First Year (I)

Semester I				
Code	Course	Status	L+E	ECTS
101SHKI	Mathematics I	M	3+2	7
102SHKI	Engineering Physics	M	2+2	6
103SHKI	Introduction to Computer Science	M	2+2	6
104SHKI	Internet and Web Technologies	M	3+2	7
105SHKI	English for Engineers	M	2+0	4

Semester II				
Code	Course	Status	L+E	ECTS
106SHKI	Mathematics II	M	2+2	6
107SHKI	Computing I	M	3+2	6
108SHKI	Fundamentals of Electrical Engineering	M	2+2	5
109SHKI	Communication Skills	M	2+1	5
110SHKI	Fundamentals of Artificial Intelligence	E	2+2	4
111SHKI	Computer-Aided Design – CAD	E	2+2	4
112SHKI	Data Security	E	2+2	4
113SHKI	Fundamentals of Mechatronics	E	2+2	4

Second Year (II)

Semester III				
Code	Course	Status	L+E	ECTS
201SHKI	Computing II	M	3+2	6
202SHKI	Database Systems	M	2+2	5
203SHKI	Electronics	M	2+2	5
204SHKI	Discrete Mathematics	M	2+1	5
205SHKI	Computer Architecture and Organization	M	2+2	5
206SHKI	IT Project Management	E	2+2	4
207SHKI	Computer-Aided Engineering and Industry 5.0	E	2+2	4
208SHKI	Human–Computer Interaction	E	2+2	4
209SHKI	Natural Language Processing	E	2+2	4

Semester IV				
Code	Course	Status	L+E	ECTS
210SHKI	Software Engineering	M	3+2	5
211SHKI	Operating Systems	M	2+2	5
212SHKI	Microprocessors and Microcomputers	M	2+2	5
213SHKI	Statistics	M	2+1	5
214SHKI	Business Intelligence	E	2+2	5
215SHKI	Measurements and Data Acquisition Systems	E	2+1	5
216SHKI	Digital Entrepreneurship and Innovation	E	2+2	5
217SHKI	Generative AI	E	2+2	5

Third Year (III)

Semester V				
Code	Course	Status	L+E	ECTS
301SHKI	Computer Networks	M	2+2	6
302SHKI	Big Data Processing	M	2+2	4
303SHKI	Mobile Application Development	M	2+2	5
304SHKI	Modern Databases	M	2+2	6
305SHKI	Cybersecurity	M	2+2	5
306SHKI	Accounting Information Systems	E	2+2	4
307SHKI	Computer Graphics and Multimedia	E	2+2	4
308SHKI	Web3 and Blockchain	E	2+2	4

309SHKI	Game Development	E	2+2	4
---------	------------------	---	-----	---

Semester VI				
Code	Course	Status	L+E	ECTS
310SHKI	Advanced Programming	M	3+2	6
311SHKI	Laboratory Course	M	3+3	7
312SHKI	Bachelor Thesis	M	145	7
313SHKI	Web Programming	M	3+2	5
314SHKI	Analysis of Algorithms	E	2+2	5
315SHKI	Ethics, Law and Technology	E	2+2	5
316SHKI	Large Language Models	E	2+2	5
317SHKI	Cloud Computing and DevOps	E	2+2	5

Note: M – Mandatory course, E – Elective course; L+E – lecture hours + exercise hours per week. In each semester, students must earn 30 ECTS from the group of mandatory and elective courses.