

Study Programme Overview *Cloud and Edge Computing, MSc (2026–2029)*

Name of the institution	University “Isa Boletini” in Mitrovica
Faculty / Department	Faculty of Mechanical and Computer Engineering
Name of the study programme	Cloud and Edge Computing
Qualification level according to the NQF	Level VII
Name of the diploma or academic degree	Master of Science in Cloud and Edge Computing
ECTS	120
Minimum duration of the programme	2 years
Number of students per year	35

First Year (I)

Semester I				
Code	Course	Status	L+E	ECTS
101CEC	DevOps, Cloud Infrastructure and Virtualization	M	2+2	6
102CEC	Cloud Data Management	M	2+2	6
103CEC	Network Technologies for Cloud	M	2+2	6
104CEC	Software Engineering for Cloud-Scale Systems	M	2+2	6
105CEC	Distributed Systems	M	2+2	6

Semester II				
Code	Course	Status	L+E	ECTS
106CEC	Edge and Embedded Computing Systems	M	2+2	6
107CEC	Research Methods and Ethics	M	2+2	6
108CEC	Security in Cloud and Edge Environments	M	2+2	6
109CEC	Data Analytics and Machine Learning in the Cloud	M	2+2	6
110CEC	Next-Generation Networks	E	2+2	6
111CEC	Cloud Data Protection and Compliance	E	2+2	
112CEC	Digital Forensics and Incident Response in the Cloud	E	2+2	

Second Year (II)

Semester III				
Code	Course	Status	L+E	ECTS
201CEC	Cloud Orchestration and Microservices	M	2+2	6
202CEC	Scalable Systems and High-Performance Computing	M	2+2	6
203CEC	Fog/Edge Networking	M	2+2	6
204CEC	Artificial Intelligence at the Edge and Real-Time Systems	E	2+2	6
205CEC	Cloud Cost Optimization	E	2+2	
206CEC	Deep Learning for Cloud and Edge Environments	E	2+2	
207CEC	Blockchain Fundamentals for Cloud Security	E	2+2	6
208CEC	Service Level Management and Cloud Governance	E	2+2	
209CEC	Time Series Forecasting at the Edge	E	2+2	

Semester IV				
Code	Course	Status	L+E	ECTS
210CEC	Professional Internship	M	—	12
211CEC	Master Thesis	M	—	18

Note: M – Mandatory course, E – Elective course; L+E – lecture hours + exercise hours per week. In each semester, students must earn at least 30 ECTS from the group of mandatory and elective courses. Where several elective courses share a single ECTS value, students select one course from that group.