

MASTER OF SCIENCE IN "INFORMATION ENGINEERING"

LEARNING OUTCOMES

By the end of the study programme the students will be able to:

- Identify, design, and develop complex software solutions.
- Design, develop, secure, and maintain complex computer networks.
- Develop ERP-s through advanced coding knowledge.
- Use artificial intelligence as machine learning.
- Develop a research study that applies quantitative or qualitative research methods to collect, organize, and analyse data to address an applied scientific research question.

PROFILE: SOFTWARE ENGINEERING

- Design and develop software solutions.
- Define patterns and manage large amounts of data.

PROFILE: INFORMATION SYSTEMS SECURITY

- Ensure information system and computer network security.
- Manage threads in IT.

PROFILE: DATA MANAGEMENT

- Design and manage complex data warehouses.
- Define patterns and manage large amounts of data.

PROFILE: APPLICATION DESIGN AND DEVELOPMENT

- Apply new Information technologies for creating adapt applications in several fields.
- Identify and manage threads in information systems.

CURRICULA

MASTER OF SCIENCE IN "INFORMATION ENTINEERING" 120 ECTS							
No.	Year	Term	Subject Title	ECTS			
A - GENERAL SUBJECTS/ 10% / 12 ECTS							
1	I	1	Advanced Research Methods	6			
2	II	1	Operations Research	6			
				12			
B - CHARACTERIZING/CORE SUBJECTS/ 50-60%/60 ECTS							
1		1	System Architecture and Engineering	6			
2		2	Computer Networks Management	6			
3		2	IT Systems Design and Development	6			
4	I	1	Management of Information Systems	6			
5		1	Database Design and Implementation	6			



	MAST	ER OF S	SCIENCE IN "INFORMATION ENTINEERING" 120 ECT	S		
No.	Year	Torm	Subject Title	ECTS		
		Term 2	Subject Title	_		
6	l	_	Software Engineering	6		
8	l	2	Strategic Management	6		
9	1	-	Information Systems Applications	6		
7		1	Web Development: Applications and Programming	6		
10	II	1	Artificial Intelligence	6		
.	ITEDDI	OOD! IN	A DV/INTEGRATING/ELECTIVE OUR LEGTO 40 000/ / 4	60		
		SCIPLIN	ARY/INTEGRATING/ELECTIVE SUBJECTS 12-20% / 1	8 EC IS		
	FILE:		SOFTWARE ENGINEERING			
1		2	Distributed Systems	6		
2	ll 	2	Big Data Management	6		
3		1	Risk Management in IT	6		
	FILE:	_	INFORMATION SYSTEM SECURITY	_		
1	I	2	Computer Networks Security	6		
2	II	1	Risk Management in IT	6		
3	II	2	Cryptography and Ethical Hacking	6		
PROFILE:			DATA MANAGEMENT			
1	l	2	SQL Server and Reporting Platforms	6		
2	II	1	Advanced Database Administration	6		
3	II	2	Big Data Management	6		
PROFILE:			APPLICATIONS DESIGN AND DEVELOPMENT			
1	ı	2	SQL Server and Reporting Platforms	6		
2	II	2	Advanced Software Development	6		
3	II	1	Risk Management in IT	6		
				18		
D -Al	DDITION	IAL SUE	BJECTS/ 10% / 12 ECTS			
1	II	2	Internship	12		
E - FINAL OBLIGATIONS / 10-15%/18 ECTS						
1	Ш	1-2	Diploma Thesis	18		
				120		