Faculty Applied IT, Machine Intelligence and Robotics

Study program: Information and Network Security, Privacy and Data Protection
SECOND CYCLE OF STUDIES

Active from academic 2018/2019

After completion of 2 years of studies, with 120 ECTS credits, students will get a degree of Master of Science in information and network security, privacy and data protection.

INSPDP II cycle

Year I			
Semester I			
Code	Course Name	No. of classes	ECTS
11.3.F.2106.C	Security and survivability of networks	3+2	6
11.3.F.2107.C	Data modeling	3+2	6
11.3.F.2108.C	Big data analytics	3+2	6
One Major Elective course from the provided list			
11.3.F.2102.MaE	Network auditing	3+2	6
11.3.F.2101.MaE	Architecture of cloud application and services	3+2	6
Elective			
xx.x.F.xxxx.MiE	One Minor Elective course	3+2	6
Year I			
Semester II			
Code	Course Name	No. of classes	ECTS
11.3.F.2209.C	Threats to information systems	3+2	6
11.3.F.2210.C	Data integrity	3+2	6
11.3.F.2211.C	Disaster recovery in data processing	3+2	6
Two Major Elective courses from the provided list			
11.3.F.2203.MaE	Software system security	3+2	6
11.3.F.2204.MaE	Network security risk management	3+2	6
11.3.F.2205.MaE	Business intelligence	3+2	6
11.3.F.2206.MaE	Security of cloud protocols	3+2	6

Year II			
Semester III			
Code	Course Name	No. of classes	ECTS
11.3.F.2312.C	Security of data processing	3+2	6
11.3.F.2313.C	Business and technology trends of cloud computing	3+2	6
11.3.F.2314.C	Network monitoring	3+2	6
One Major Elective course from the provided list			
11.3.F.2307.MaE	Software configuration management	3+2	6
11.9.F.2308.MaE	Business continuity & it disaster recovery	3+2	6
11.3.F.2309.MaE	Privacy and personal data protection		
Elective			
xx.x.F.xxxx.MiE	One Minor Elective course	3+2	6
Year II			
Semester IV			
Code	Course Name	No. of classes	ECTS
11.3.F.2415.C	Open data	3+2	6
11.9.F.2416.C	Master thesis		12
Two Major Elective courses from the provided list			
11.3.F.2410.MaE	Agile software development	3+2	6
11.3.F.2411.MaE	Secure software coding standards	3+2	6
11.9.F.2412.MaE	Privacy of electronic and internet communications	3+2	6
10.9.F.2413.MaE	Law of e-commerce	3+2	6
11.9.F.2414.MaE	Cybercrime	3+2	6
			120

The second cycle of university studies recognizes the modules:

- C - mandatory (core),
- MaE - elected from the scientific field of the faculty
- MiE - optional from other scientific areas.

List of Major Elective courses				
id	code	Course	Weekly fund of hours	ECTS
1	11.3.F.2101.MaE	Architecture of cloud application and services	3+2	6
2	11.3.F.2102.MaE	Network auditing	3+2	6
3	11.3.F.2203.MaE	Software system security	3+2	6
4	11.3.F.2204.MaE	Network security risk management	3+2	6
5	11.3.F.2205.MaE	Business intelligence	3+2	6
6	11.3.F.2206.MaE	Security of cloud protocols	3+2	6
7	11.3.F.2307.MaE	Software configuration management	3+2	6
8	11.9.F.2308.MaE	Business continuity & it disaster recovery	3+2	6
9	11.3.F.2309.MaE	Privacy and personal data protection	3+2	6
10	11.3.F.2410.MaE	Agile software development	3+2	6
11	11.3.F.2411.MaE	Secure software coding standards	3+2	6
12	11.9.F.2412.MaE	Privacy of electronic and internet communications	3+2	6
13	10.9.F.2413.MaE	Law of e-commerce	3+2	6
14	11.9.F.2414.MaE	Cybercrime	3+2	6

List of Minor Elective courses				
id	code	Course	Weekly fund of hours	ECTS
1	09.0.F.xx55.MiE	Technical Communication 1	3+2	6
2	09.0.F.xx56.MiE	Technical Communication 2	3+2	6
3	03.0.F.xx11.MiE	Digital Arts	3+2	6
4	15.9.F.xx14.MiE	Digital society	3+2	6
5	13.2.F.xx09.MiE	E-Ethics	3+2	6
6	14.9.F.xx21.MiE	E-Gaming	3+2	6
7	14.9.F.xx22.MiE	E-Governance	3+2	6
8	15.1.F.xx23.MiE	E-Journalism	3+2	6
9	15.9.F.xx25.MiE	E-Media	3+2	6
10	11.9.F.xx26.MiE	e-Platforms	3+2	6
11	07.2.F.xx33.MiE	Ecology	3+2	6
12	15.9.F.xx34.MiE	Electronic elections	3+2	6
13	09.2.F.xx35.MiE	English for Academic Purposes	3+2	6
14	11.9.F.xx40.MiE	Interactive Design	3+2	6
15	04.9.F.xx05.MiE	IT Startups	3+2	6
16	10.9.F.xx41.MiE	Law and intellectual property	3+2	6

17	09.0.F.xx47.MiE	Macedonian Language	3+2	6
18	04.9.F.xx10.MiE	Management of Human Resources	3+2	6
19	04.7.F.xx27.MiE	Marketing	3+2	6
20	10.6.F.xx29.MiE	Open government	3+2	6
21	04.9.F.xx30.MiE	Product Management	3+2	6
22	09.9.F.xx32.MiE	Public Speaking	3+2	6
23	14.0.F.xx50.MiE	Social networks	3+2	6
24	11.3.F.xx52.MiE	Visual Communication and Graphics Design	3+2	6
25	10.6.F.xx54.MiE	e-Democracy	3+2	6
26	10.6.F.xx57.MiE	e-Diplomacy	3+2	6
27	09.0.F.xx58.MiE	Academic writing	3+2	6
28	10.9.ICSBM.2206.MiE	Intellectual property	3+2	6
29	04.9.ICSBM.2207.MiE	Strategic Management	3+2	6

More info on http://uist.edu.mk/academics/masters/aitmir-master/