Educational Specialty: ENGINEERING PHYSICS Master's Programme: "Wireless Network and Devices" (on English)

Form of Education: full time; regular form, Duration: 3 Terms

Course	ETCS credits	Exam or Scores during the Term (E/T)	Total Hours (Lectures; Seminars Practical Exercises) (L + S + P)
FIRST Y	EAR		
First Term	(winter)		
Compulsory Courses			
Modulations and Coding in the Digital Communications	6	Е	45 + 15 + 15
Wireless Networks and Protocols	4.5	Е	45 + 15 + 0
Computer Practice in Communication Systems	4.5	Т	0 + 0 + 45
Introductory Selectable Courses – 1 course wi	th 5 ECTS	credits (1/5)	
Introduction to Wireless Communications	5	Е	30 + 30 + 0
Applied Electrodynamics for MSc. Students	5	Е	30 + 30 + 0
Modern Physics for Engineers	5	Е	60 + 0 + 0
Selectable Courses – 2 courses with 10 ECTS co	redits (2/10)		
Interfaces in the Wireless Communications	5	Е	30 + 0 + 30
Mobile Radio-Channels	5	Е	30 +30 + 0
Microwave Measurements in Communications	5	Е	30 + 0 + 30
Fixed and Mobile Satellite Communication Systems	5	Е	30 + 15 + 15
Software Toolbox on MatLab for Communication Applications	5	Т	30 + 0+ 15
Practical Programming on Visual C++	5	Т	30 + 0 + 30
Management of the Communication Networks	5	Т	30 + 30 + 0
One-term Course in Advanced Topics in Communications (winter) (Communication systems for security data transfer, BG)	5	Т	30 + 30
Second Term	(summer	·)	
Compulsory Courses			
Information and Statistics in the Wireless Communications	4.5	Е	45 + 15 + 0
Microwave Communication Devices and Systems	6	Е	45 + 15+ 15
Integrated Circuits and Devices for Wireless Networks	4.5	Е	45+ 15 + 0

Laboratory Practice in Integrated Circuits and Devices for Wireless Networks	4.5	Т	0 + 0+ 45	
Selectable Courses – 2 courses with 10 ECTS	credits (2/10)		
Processors in Wireless Communications	5	Е	30 + 0 + 30	
Antennas for Wireless Communication Systems	5	Е	30 + 15 + 15	
Radio-Frequency Identification Devices (RFID's)	5	Е	30 + 15 + 15	
Security of the Communication Networks and Systems	5	Е	30 + 30 + 0	
Operational Systems and Open-Source Applications in the Communications	5	Т	0 + 0+ 45	
Electromagnetic Compatibility in Communications	5	Т	30 + 15 + 0	
Management of the Innovations	5	Т	30 + 30 + 0	
One-term Course in Advanced Topics in Communications (summer) (Optical communi- cations and optical data processing)	5	Т	30 + 30	
SECOND	YEAR			
Third Term (winter)				
Compulsory M.Sc. Thesis				
MSc. Thesis	15	February (1 st) / July (2 nd)		
Selectable Practices – 1 practice with 15 ECTS	credits (1/1	5)		
Educational Practice Wireless Networks and Devices	15	Т	150	
Individual Preparation of the Master Thesis (instead of the practice)	15	Т	150	
Total: 90 ECTS credits; 8 Exams (E);	5 scores d	uring the Te	rm (T)	