

ФЗБ				
31	2	4	1	4
код на спец.				

Професионално направление 5.3 "Комуникационна и компютърна техника"

Специалност "Безжични мрежи и устройства" / магистърска програма "Wireless Networks and Devices"

за випуска, започнал през 2014/15 учебна година (редовно обучение на английски език)

№	код на дисциплината	Наименование на учебната дисциплината	Вид – З, И, Ф	семестър	ECTS кредити	Часове - общ брой				Седмична заетост	Форма на оценяване* - и, то, ки, прод
						Всичко (само аудиторна)	Лекции	Семинарни занятия	практически упражнения		
1	2	3	4	5	6	7	8	9	10	11	12

Задължителни дисциплини

1	M 0 4 9	Modulations and coding in the digital communications	З	1	6	180 (75)	45	15	15	3-1-1	КИ
2	M 0 5 0	Wireless networks and protocols	З	1	4,5	135 (60)	45	15	0	3-1-0	КИ
3	M 0 5 1	Computer practice in communication systems	З	1	4,5	135 (45)	0	0	45	0-0-3	КИ
4	M 0 5 2	Information and statistics in the wireless communications	З	2	4,5	135 (60)	45	15	0	3-1-0	КИ
5	M 0 5 3	Microwave communication devices and systems	З	2	6	180 (75)	45	15	15	3-1-1	КИ
6	M 0 5 4	Integrated circuits and devices for wireless networks	З	2	4,5	135 (60)	45	15	0	3-1-0	КИ
7	M 0 5 5	Laboratory practice in Integrated circuits and devices for wireless networks	З	2	5	150 (45)	0	0	45	0-0-3	КИ

Уводни избираеми дисциплини – избраните дисциплини трябва да носят минимум 5 кредита

1	M 0 5 6	Introduction to wireless communications	И	1	5	150 (60)	30	30	0	2-2-0	КИ
2	M 0 5 7	Applied Electrodynamics for MSc students	И	1	5	150 (60)	30	30	0	2-2-0	КИ
3	M 0 5 8	Modern Physics for Engineers	И	1	5	150 (60)	60	0	0	4-0-0	КИ

Студентите избират една от трите вводни избираеми дисциплини в 1-ви семестър. Другите две могат да изберат в този или друг семестър като обикновени избираеми дисциплини.

Избираеми дисциплини – избраните дисциплини трябва да носят минимум 20 кредита (1 сем. - 10; 2 сем. - 10)

1	M	0	5	9	Communication and Information systems for data transfer	И	1	5	150 (60)	30	30	0	2-2-0	КИ
2	M	0	6	0	Mobile radio-channels	И	1	5	150 (60)	30	30	0	2-2-0	КИ
3	M	0	6	1	Microwave measurements in communications	И	1	5	150 (60)	30	0	30	2-0-2	КИ
4	M	0	6	2	Fixed and Mobile satellite communication systems	И	1	5	150 (60)	30	15	15	2-1-1	КИ
5	M	0	6	3	Software toolbox on MATLAB for communication applications	И	1	5	150 (60)	30	0	15	2-1-0	КИ
6	M	0	6	4	Practical programming on Visual C++	И	1	5	150 (60)	30	0	30	2-0-2	КИ
7	M	0	6	5	Management of the communication networks	И	1	5	150 (60)	30	30	0	2-2-0	КИ
8	M	0	6	6	Optical Networks and Devices	И	2	5	150 (60)	45	15	0	3-1-0	КИ
9	M	0	6	7	Processors in the wireless communications	И	2	5	150 (60)	30	0	30	2-0-2	КИ
10	M	0	6	8	Antennas for wireless communication systems	И	2	5	150 (60)	30	15	15	2-1-1	КИ
11	M	0	6	9	RFID's	И	2	5	150 (60)	30	15	15	2-1-1	КИ
12	M	0	7	0	Security of the communication networks and systems	И	2	5	150 (60)	30	30	0	2-2-0	КИ
13	M	0	7	1	Operational systems and open-source applications in the communications (Lab. exercises)	И	2	5	150 (45)	0	0	45	0-0-1	КИ
14	M	0	7	2	Electromagnetic compatibility (EMC) in communications	И	2	5	150 (60)	30	15	15	2-1-1	КИ
15	M	0	7	3	Management of innovations	И	2	5	150 (60)	30	30	0	2-2-0	КИ
16	M	0	7	4	One-term course in advanced topics in communications (winter)	И	1	5	150 (60)	30	30		2-2-0	КИ
17	M	0	7	5	One-term course in advanced topics in communications (summer)	И	2	5	150 (60)	30	30		2-2-0	КИ

Учебният план е приет на заседание на Факултетен съвет с протокол № от

ДЕКАН:.....

Notes:

1. The lecture courses are holding in the Faculty in Physics, Educational Hall A410 "Prof. Stefan Alexandrov".
2. The students pay the yearly taxes, approved by the Academic Council of the Sofia University "St. Kliment Ohridski".
3. The English language is the official language of the Master's programme.
4. The programme is supporting by Bulgarian and foreign companies in the area of communication and electronics.
5. The Master's Programme has Programme Council, which includes the lecturers of the compulsory courses, one representative of the supporting companies and one student (the group leader). The Programme Council is responsible for the whole educational process. The Programme Chair is responsible for the operative management of the educational process.
6. The each Lecturer of the Master's Programme has responsibility to ensure suitable educational materials in English. They should be preliminary approved by the Programme Council.
7. The each student gets officially an individual task in the frame of one of the Training groups (2-5 students). The each group has Supervisor (lecturer in the program), which is responsible for the education of the students into the group. The education is problem-orientated. The students are working in-group. Each student presents own results of his/her personal task as a part of the whole training project. The final project is the MSc. Thesis of the student.