SOFIA UNIVERSITY "ST. KLIMENT OHRIDSKI"

FACULTY OF CHEMISTRY AND PHARMACY

C U R R I C U L U M

Signed by:	Approved by the Academic Council, Record of Proceedings № ..... / .....

Professional Field: **7.3. Pharmacy**

Educational and Qualification Degree: **Master of Science**

Subject Area:

C	**H**	**L**	**3**	**8**	**2**	**4**	**1**	**3**

(code, name) **Pharmacy**

Form of Study: regular
Length of Study: 10 semesters

Professional Qualification: **MASTER OF PHARMACY**

Qualification Description

Subject Area: Pharmacy
M. Sc. Program: Pharmacy

1. Educational objectives

The main purpose of this M.Sc. program is to educate competent pharmacists who can pursue successful career in the field of Pharmacy – public and hospital pharmacies, pharmaceutical industry, specialized and control laboratories, or research institutions.

The education in Pharmacy is **in accordance with the national and EU legislation** regulating the M.Sc. degree of Pharmacy and the professional competencies and the types of educational activity, which should be covered by a University graduate to become Master of Pharmacy.

The M. Sc. program Pharmacy is a state-regulated graduate program with professional qualification 7.3. “Pharmacy”.

The education is full-time in 5 years (10 semesters): 9 semesters basic and specialized pharmaceutical training, two study internships: in Botany and in Pharmacognosy, one industrial internship in Technology of Drug Forms, and 6 moths of professional training.

The students are **educated in the spirit of the good traditions** of university education. Professionals from different Faculties of the University of Sofia are involved in the teaching.

The program is completed by passing the following State exams:

1. Pharmaceutical Technology and Biopharmacy;
2. Pharmacognosy, Pharmacology, and Toxicology;
3. Pharmaceutical Chemistry and Pharmaceutical Analysis;
4. Social Pharmacy and Pharmaceutical Law.

The successfully graduated students are awarded a M. Sc. diploma for Master of Pharmacy.

2. Description

The professional qualification of the pharmacists is acquired by study of **core, elective and optional courses** containing lectures, seminars, practical classes and independent study and providing fundamental and specialized pharmaceutical knowledge. The students develop practical skills and competences in the following areas:

- knowledge of the basic principles of Chemistry, Biology and Physics as fundament for Pharmacy;
- design and synthesis of pharmaceutics;
- pharmaceutical technologies;
- physical, chemical, biological and microbiological control of drugs;
- biotransformation and pharmacokinetics of pharmaceutics;
- rational drug usage, drug applicability and impact on the human organism;
- toxic substances and their action;
- drug safety;

- assessment of the scientific information for drugs and ability to offer professional assistance based thereon;
- comprehension of the legislation and the scientific-regulatory requirements of the pharmaceutical practice.

The courses included in the curriculum of Pharmacy furnish the following **BASIC COMPETENCIES**:

A. Fundamental biomedical, chemical and pharmaceutical knowledge in the field of:

- properties and physiological activity of the main classes of inorganic and organic compounds;
- methods for synthesis, purification and analysis of drug components;
- human anatomy and physiology, pharmacology, drug toxicology, microbiology and virology, biopharmaceutics, which are related to the study of pathogenic processes and of the mechanism of action of drugs;
- pharmacognosy;
- cytology and histology;
- pathoanatomy and pathophysiology;
- pharmaceutical legislation and regulations, pharmacoeconomics, national drug policy;
- good pharmaceutical practices; management of pharmacies – Good Pharmacy Practice and its implementation and other legislative documents related to pharmaceutical practice.

B. Specialized pharmaceutical background in:

- bioactive compounds used for production of drugs;
- understanding and implementation of modern pharmaceutical techniques, technologies and methods;
- ensuring good quality of pharmaceutical preparations and techniques;
- drug metabolism and modes of action;
- rational drug use;
- drug-related information and promotion of drugs;

3. Professional Qualifications

The graduated pharmacists gain **COMPETENCE, KNOWLEDGE AND SKILLS in fundamental biomedical, clinical and in specialized pharmaceutical disciplines**:

A. Fundamental capabilities:

A1. Creative and innovative thinking, accumulation of new knowledge as a basis for life-long learning and professional development;
A2. Compliance with the professional ethics of a pharmacist;
A3. Ability for independent and team work and for decision making, capacity for collection and analysis of scientific and professional information;
A4. Professional communication with patients and healthcare experts and ability to use contemporary information technologies in favour of patients;
A5. Capacity for collection, processing, analysis and presentation of pharmacy-related data and its efficient communication to health-regulating authorities and organizations, health insurance funds and other branch organizations;

A6. Comprehensible and convincing oral and written assistance and presentation of information related to drugs and drug constituents to other specialists, patients, health organizations, public and private health institutions, state representatives and organizations, non-government bodies, etc.;
A7. Performance of marketing studies of the pharmaceutics market, including participation in pharmacoeconomic research;
A8. Work with Internet resources;
A9. Sustainable management of own pharmaceutical establishment, preparation of business plans and specific reports;
A10. Practical level of at least one EU language (apart from Bulgarian);
A11. Ability to use Latin pharmaceutical terminology;
A12. Comprehension of the essence of the "pharmacist" profession as being focused on the patient and of the role of the pharmacist when working in a pharmacy or in the industry.

B. Specialized pharmaceutical capabilities:

B1. Application of the principles of the fundamental disciplines for solving specific pharmaceutical problems related to the search of new biologically active substances, to creation, production, quality control, storage, efficiency, and safety of pharmaceutics;
B2. Supply, storage, and sales of pharmaceutics and sanitation materials in public and hospital pharmacies;
B3. Preparation and prescription of pharmaceutics in accord with the latest achievements of pharmaceutical science and practice, jurisdiction and codices of professional conduct;
B4. Verification of single and daily dosages of prescribed medications;
B5. Assessment of the compatibility of the drug substances, excipients and packaging materials in the preparation of compounded medications;
B6. Providing adequate information to the patients/users and offering interchangeable medicines;
B7. Experimental design and critical analysis of experimental data, seeking and accomplishment of solutions to pharmaceutical problems.

4. Professional Realization

The graduated Masters of Pharmacy are entitled to perform the following activities (EU directive 85/432/EEC):

1. Preparation of pharmaceutics;
2. Production and control of pharmaceutics;
3. Drugs quality and safety assessment in specialized laboratories;
4. Storage and distribution of pharmaceutics to pharmacies and hospitals;
5. Supply of information and assistance related to pharmaceutics.

Job opportunities

After graduating, the students can become pharmacists with fully acknowledged qualification at national and EU level.
They can pursue career in the following directions:

- Production and import of pharmaceutics and active drug forms of human, animal, plant, and chemical origin;
- Official approval of pharmaceutics;
- Quality and safety assessment of pharmaceutics and customs release of pharmaceutics shipments and bioactive substances;
- Clinical tests of pharmaceutics;

- Drugs safety;
- Pharmaceutical information, pharmaceutics promotion and advertisement;
- Wholesale and retail of pharmaceutics;
- National drugs policy;
- Health economics, pharmacoeconomics, health technologies;
- Drug applicability and rational drug usage at micro- and macro-level;
- State control of drug products.

The Masters of Pharmacy will be able to work in state organizations and institutions responsible for drug policy and state control of pharmaceutics; in public and societal organizations; in state-funded and private research institutes, universities, and industrial companies; in various areas of industry and distribution of pharmaceutics; in public and hospital pharmacies; in analytical laboratories; in pharmaceutical companies and sales representatives offices; in research laboratories, etc.

The diploma entitles its holders to pursue the next level of education – PhD, and to apply for obtaining other educational qualification in other University.

The compliance with the EU directives 85/432, 85/433, 2005/36 and 2006/100 ensures mobility of the graduates, who can practice their profession in the EU member states, in other countries, which are part of the EEA, and in Switzerland, as regulated by the national legislation of the respective country.

5. Admission requirements

The candidates should have completed their high school education (certified by official Bulgarian translation of the diploma). They have to pass admission exams in Chemistry and Biology. Their high school diploma should contain grades in Chemistry and Biology.

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M. Sc. Program "Pharmacy"

for the academic year beginning in 2013

№	Course code				Course Title	Type – C, E, O	Semester	ECTS credits	Number of hours- total				Number of hours per week	Type of grading* - e, ca, m, a
									Total	Lectures	Seminars	Practical classes / practice		
1	*2*				*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*
Core courses														
1	C	0	1	7	Mathematics (Calculus)	**C**	**1**	**7**	**175**	**30**	**0**	**45**	**2/0/3**	**e**
2	C	0	2	5	Biology	**C**	**1**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
3	C	0	3	6	General and Inorganic Chemistry 1	**C**	**1**	**6**	**150**	**30**	**0**	**45**	**2/0/3**	**e**
4	C	0	4	5	Latin	**C**	**1**	**5**	**125**	**30**	**30**	**0**	**2/2/0**	**e**
5	C	0	5	5	English	**C**	**1**	**5**	**125**	**0**	**60**	**0**	**0/4/0**	**e**
6	C	0	6	2	Sport	**C**	**1**	**-**	**30**	**0**	**0**	**30**	**0/0/2**	**a**
7	C	0	7	4	Human Anatomy	**C**	**2**	**4**	**100**	**30**	**0**	**15**	**2/0/1**	**e**
8	C	0	8	5	General and Inorganic Chemistry 2	**C**	**2**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
9	C	0	9	7	Physics and Biophysics	**C**	**2**	**7**	**175**	**45**	**0**	**45**	**3/0/3**	**e**
10	C	1	0	5	Pathoanatomy	**C**	**2**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
11	C	1	1	8	Microbiology and Virology	**C**	**2**	**8**	**200**	**60**	**0**	**60**	**4/0/4**	**e**
12	C	1	2	3	History of Pharmacy	**C**	**2**	**3**	**75**	**30**	**0**	**0**	**2/0/0**	**ca**
13	C	0	6	2	Sport	**C**	**2**	**2**	**30**	**0**	**0**	**30**	**0/0/2**	**ca**
14	C	1	4	6	Human Physiology	**C**	**3**	**6**	**150**	**45**	**0**	**45**	**3/0/3**	**e**
15	C	1	5	6	Analytical Chemistry 1	**C**	**3**	**6**	**150**	**30**	**0**	**60**	**2/0/4**	**e**
16	C	1	6	5	Physical Chemistry with Colloid Chemistry 1	**C**	**3**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
17	C	1	7	6	Organic Chemistry 1	**C**	**3**	**6**	**150**	**45**	**0**	**45**	**3/0/3**	**e**
18	C	1	8	5	Information Technology and Statistics	**C**	**3**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
19	C	0	6	2	Sport	**C**	**3**	**-**	**30**	**0**	**0**	**30**	**0/0/2**	**a**

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Type of grading:
e-exam, ca-current assesment,
m-matriculation,
a-advances to the next semester

20	C	2	0	6	Analytical Chemistry 2	**C**	**4**	**6**	**150**	**30**	**0**	**60**	**2/0/4**	**e**
21	C	2	1	5	Physical Chemistry with Colloid Chemistry 2	**C**	**4**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
22	C	2	2	6	Organic Chemistry 2	**C**	**4**	**6**	**150**	**45**	**0**	**45**	**3/0/3**	**e**
23	C	2	3	6	Pharmaceutical Botany	**C**	**4**	**6**	**150**	**45**	**0**	**45**	**3/0/3**	**e**
24	C	2	4	5	Pathophysiology	**C**	**4**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
25	C	0	6	2	Sport	**C**	**4**	**2**	**30**	**0**	**0**	**30**	**0/0/2**	**ca**
26	C	2	6	0	Pharmacognosy 1	**C**	**5**	**10**	**250**	**60**	**0**	**90**	**4/0/6**	**e**
27	C	2	7	7	Pharmaceutical Chemistry 1	**C**	**5**	**7**	**175**	**45**	**0**	**60**	**3/0/4**	**e**
28	C	2	8	7	Biochemistry	**C**	**5**	**7**	**175**	**45**	**30**	**30**	**3/2/2**	**e**
29	C	2	9	5	Pharmacogenetics	**C**	**5**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
30	C	3	0	4	Hygiene and Ecology	**C**	**5**	**4**	**100**	**30**	**0**	**15**	**2/0/1**	**e**
31	C	3	1	8	Pharmacognosy 2	**C**	**6**	**8**	**200**	**45**	**0**	**75**	**3/0/5**	**e**
32	C	3	2	7	Pharmaceutical Chemistry 2	**C**	**6**	**7**	**175**	**45**	**0**	**60**	**3/0/4**	**e**
33	C	3	3	0	Pharmaceutical Technology 1	**C**	**6**	**10**	**250**	**60**	**0**	**90**	**4/0/6**	**e**
34	C	3	4	6	Pharmacology 1	**C**	**6**	**6**	**150**	**45**	**0**	**45**	**3/0/3**	**e**
35	C	3	5	0	Pharmaceutical Technology 2	**C**	**7**	**10**	**250**	**60**	**0**	**90**	**4/0/6**	**e**
36	C	3	6	7	Pharmacology 2	**C**	**7**	**7**	**175**	**45**	**0**	**60**	**3/0/4**	**e**
37	C	3	7	7	Pharmaceutical Analysis 1	**C**	**7**	**7**	**175**	**45**	**0**	**60**	**3/0/4**	**e**
38	C	3	8	5	Clinical Chemistry	**C**	**7**	**5**	**125**	**30**	**0**	**30**	**2/0/2**	**e**
39	E	3	9	4	Elective course 1	**E**	**7**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
40	C	4	0	8	Pharmaceutical Technology 3	**C**	**8**	**8**	**200**	**45**	**0**	**75**	**3/0/5**	**e**
41	C	4	1	8	Pharmaceutical Analysis 2	**C**	**8**	**8**	**200**	**45**	**0**	**75**	**3/0/5**	**e**
42	C	4	2	5	Social Pharmacy and Pharmaceutical Law 1	**C**	**8**	**5**	**125**	**30**	**15**	**30**	**2/3/0**	**ca**
43	C	4	3	6	Toxicology	**C**	**8**	**6**	**150**	**45**	**0**	**45**	**3/0/3**	**e**
44	C	4	4	5	Pharmacotherapy 1	**C**	**8**	**5**	**125**	**45**	**0**	**30**	**3/0/2**	**e**
45	C	4	5	7	Biopharmaceutics and Pharmacokinetics	**C**	**9**	**7**	**175**	**45**	**0**	**60**	**3/0/4**	**e**
46	C	4	6	6	Pharmacotherapy 2	**C**	**9**	**6**	**150**	**45**	**0**	**30**	**3/0/2**	**e**
47	C	4	7	5	Social Pharmacy and Pharmaceutical Law 2	**C**	**9**	**5**	**125**	**30**	**15**	**30**	**2/2/0**	**e**

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m-matriculation,
a-advances to the next semester

48	C	4	8	5	Pharmacoeconomics	**C**	**9**	**5**	**125**	**30**	**30**	**0**	**2/2/0**	**e**
49	C	4	9	5	Pharmaceutical Care	**C**	**9**	**5**	**125**	**30**	**30**	**0**	**2/2/0**	**e**
50	E	5	0	4	Elective course 2	**E**	**9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**

Elective courses – *courses with minimum of 8 ECTS (total) must be elected*															
1	E	0	1	4	Analytical Toxicology	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
2	E	0	2	4	Bioactive and Medico-pharmaceutical Polymers	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
3	E	0	3	4	Bioinorganic Chemistry	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
4	E	0	4	4	Bioorganic Chemistry	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
5	E	0	5	4	Biophysical Chemistry	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
6	E	0	6	4	Bromatology	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
7	E	0	7	4	Cosmetic Materials and Care	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
8	E	0	8	4	Coordination Compounds in Medicine	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
9	E	0	9	4	Molecular Modeling of Pharmacophores	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
10	E	1	0	4	Nanotechnologies in Pharmacy	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
11	E	1	1	4	Drugs, Health, and Education	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
12	E	1	2	4	Toxicochemistry	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
13	E	1	3	4	Quality Management in Pharmacy	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
14	E	1	4	4	Chemistry of Natural Products	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
15	E	1	5	4	QSAR and Drug Design	**E**	**7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**

Optional courses															
1	O	0	1	3	Introduction to University Chemistry	**O**	**1**	**3**	**75**	**0**	**0**	**30**	**0/0/2**	**ca**
2	O	0	2	3	Basic Mathematics	**O**	**1**	**3**	**75**	**0**	**0**	**30**	**0/0/2**	**ca**
3	O	0	3	3	Fundamentals of Pharmaceutics	**O**	**2,3**	**3**	**75**	**30**	**15**	**0**	**2/1/0**	**ca**
4	O	0	4	4	Optical and Electron Microscopy	**O**	**3-9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**

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5	O	0	5	3	Molecular Mechanics	**O**	**3,5,7,9**	**3**	**75**	**30**	**0**	**15**	**2/0/1**	**e**
6	O	0	6	4	Molecular Dynamics and Monte Carlo Simulations	**O**	**6,8**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
7	O	0	7	4	Ab initio MO Calculations	**O**	**6,8**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
8	O	0	8	5	Colloids and Dispersions in Medicine and Pharmacy	**O**	**3,5,7,9**	**5**	**125**	**45**	**0**	**30**	**3/0/2**	**e**
9	O	0	9	5	Biomembranes in Norm and Pathology	**O**	**4,6,8**	**5**	**125**	**45**	**0**	**30**	**3/0/2**	**e**
10	O	1	0	4	Bioelectronics	**O**	**4,6,8**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
11	O	1	1	4	Immunochemistry	**O**	**3-9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
15	O	1	5	4	Radioactive Isotopes in Nuclear Medicine	**O**	**5,7,9**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
13	O	1	3	4	Organic Biolabels for Diagnostics	**O**	**4,6,8**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**
14	O	1	4	4	Green Chemistry	**O**	**4,6,8**	**4**	**100**	**30**	**0**	**30**	**2/0/2**	**e**

Study Internships

№	code				Internship	Type – C, E, O	Semester	ECTS credits	Days	Hours	Type of grading* - e, ca, m
1	I	0	1	2	Study Internship in Botany	**C**	**4**	**2**	**6**	**48**	**ca**
2	I	0	2	2	Study Internship in Pharmacognosy	**C**	**6**	**2**	**6**	**48**	**ca**
3	I	0	3	3	Study Internship in Technology of Drug Forms	**C**	**9**	**2**	**7**	**60**	**ca**
4	I	0	4	0	Professional Internship	**C**	**10**	**28**	**168**	**720**	**ca**

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Degree completion

Form of degree completion	ECTS credits	First state exam/ thesis defence session	Second state exam/ thesis defence session
State exam in Technology of Drug Forms and Biopharmacy	15	October-November	February-March
State exam in Pharmacognosy, Pharmacology, and Toxicology			
State exam in Pharmaceutical Chemistry and Pharmaceutical Analysis			
State exam in Social Pharmacy and Pharmaceutical Law			

The curriculum has been approved by the Faculty Council, Record of Proceedings № 10 from 11. 03. 2014

DEAN:.....

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Type of grading:
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m-matriculation,
a-advances to the next semester

Sofia University "St. Kliment Ohridski"

Curriculum Reference Statement

M. Sc. Program "Pharmacy"

Form of study: full-time; Length of study: ten semesters

	In-class course load, ECTS credits and courses completed per semester																							
Type of courses	**I semester**			**II semester**			**III semester**			**IV semester**			**V semester**			**VI semester**			**VII semester**			**VIII semester**		
	Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS – кредити	Number of grades	Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS credits	Number of grades
Compulsory courses	**360**	**28**	**5**	**435**	**34**	**7**	**420**	**28**	**5**	**420**	**30**	**6**	**465**	**33**	**5**	**465**	**31**	**4**	**420**	**29**	**4**	**480**	**32**	**5**
Min. of elective courses	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**60**	**4**	**1**	**0**	**0**	**0**
Study internships	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**48**	**2**	**1**	**0**	**0**	**0**	**48**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
Total:	**360**	**28**	**5**	**435**	**34**	**7**	**420**	**28**	**5**	**468**	**32**	**7**	**465**	**33**	**5**	**513**	**33**	**5**	**480**	**33**	**5**	**480**	**32**	**5**

Degree completion	ECTS credits	Number of hours for preparation	First state exam/ thesis defence session
State exam in Technology of Drug Forms and Biopharmacy State exam in Pharmacognosy, Pharmacology, and Toxicology State exam in Pharmaceutical Chemistry and Pharmaceutical Analysis State exam in Social Pharmacy and Pharmaceutical Law	15	300	October-November

Professional Qualification: **Master of Pharmacy**

Record of Proceedings of the Faculty Council № 10 from 11. 03. 2014 **Dean:**

IX semester			X semester			Total		
Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS credits	Number of grades	Course Load - number of hours	ECTS credits	Number of grades
375	**28**	**5**	**0**	**0**	**0**	**3840**	**273**	**46**
60	**4**	**1**	**0**	**0**	**0**	**120**	**8**	**2**
60	**2**	**1**	**720**	**28**	**1**	**876**	**34**	**4**
495	**34**	**7**	**720**	**28**	**1**	**4836**	**315**	**52**

Second state exam/ thesis defence session
February-March