

#### FIRST YEAR

|                        | Course code | Guarantor/<br>Teacher | Course                                        | ECTS | Autumn   | Spring   |
|------------------------|-------------|-----------------------|-----------------------------------------------|------|----------|----------|
| Compulsory courses (A) | FAUD1_11    | Ambrus                | Introduction to Study and History of Pharmacy | 3    | 3/0/0 Ex | *        |
|                        | FABR1_12    | Babula                | Botany I                                      | 4    | 2/2/0 Cr |          |
|                        | FAOB1_14    | Paráková              | Biology                                       | 5    | 2/2/0 Ex |          |
|                        | FAPP1_14    | Štourač               | Premedical First Aid                          | 3    | 1/1/0 Ex |          |
|                        | FAMC1_14    | Chalupová             | Human Morphology                              | 4    | 2/1/0 Ex |          |
|                        | FAAC1_15    | Goněc                 | General and Inorganic Chemistry               | 8    | 3/3/0 Ex |          |
|                        | FAOL1_cjv   | Prucklová             | Professional Latin I                          | 2    | 0/1/0 Cr |          |
|                        | FALE1_11    | Smejkalová            | Introduction to Pharmacy Practice             | 3    |          | 1/1/0 Ex |
|                        | FABR2_12    | Babula                | Botany II **                                  | 5    |          | 2/2/0 Ex |
|                        | FASU1_13    | Vetchý                | Physical Chemistry                            | 6    |          | 2/2/0 Ex |
|                        | FABF1_13    | Muselík               | Biophysics                                    | 3    |          | 2/0/0 Ex |
|                        | FAOC1_15    | Bobál'                | Organic Chemistry                             | 10   |          | 5/4/0 Ex |
|                        | FAOL2_cjv   | Prucklová             | Professional Latin II **                      | 3    |          | 0/2/0 Ex |

|                          |           |         |                                  |   |          |          |
|--------------------------|-----------|---------|----------------------------------|---|----------|----------|
| Selective courses<br>(C) | FALT1_15  | Mokrý   | Basic Chemical Calculations      | 2 | 0/2/0 Cr |          |
|                          | FAAD1_FAF | Šmejkal | Advances in Pharmacy             | 2 | 1/0/0 Cr | 1/0/0 Cr |
|                          | FABF2_13  | Muselík | Biophysics – Laboratory Practice | 2 |          | 0/2/0 Cr |
|                          | FASO1_15  | Bobál'  | Organic Chemistry Seminar        | 2 |          | 0/2/0 Cr |

\* Hours per week of: Lectures / Practical Classes / Seminars

Type of completion: Ex = Examination / Cr = Credit test / Col = colloquium

\*\* Prerequisites for enrolment in courses with 2 parts (I and II) – only students who have previously passed the first (I) part (either at our faculty or their home university) can enrol in the second (II) part of the course.

## SECOND YEAR

|                        | Course code | Guarantor/<br>Teacher | Course                                     | ECTS | Autumn   | Spring   |
|------------------------|-------------|-----------------------|--------------------------------------------|------|----------|----------|
| Compulsory courses (A) | FAPC1_14    | Parák                 | Human Physiology and Pathophysiology I     | 4    | 2/1/0 Cr |          |
|                        | FAAI1_15    | Pazourek              | Analytical Chemistry I                     | 4    | 2/3/0 Cr |          |
|                        | FAMB1_16    | Treml                 | Microbiology                               | 5    | 2/2/0 Ex |          |
|                        | FABC1_16    | Brázdová              | Biochemistry                               | 6    | 3/1/0 Ex |          |
|                        | FAME1_16    | Brázdová              | Molecular Biology                          | 3    | 2/0/0 Ex |          |
|                        | FACJ1_cjv   | Prucklová             | Czech Language                             | 2    | 0/2/0 Ex |          |
|                        | FAFY1_12    | Šmejkal               | Phytochemistry                             | 3    |          | 1/1/0 Cr |
|                        | FAPC2_14    | Parák                 | Human Physiology and Pathophysiology II ** | 6    |          | 2/2/0 Ex |
|                        | FAAI2_15    | Pazourek              | Analytical Chemistry II                    | 7    |          | 2/3/0 Ex |
|                        | FAFB1_15    | Farsa                 | Medicinal Chemistry I                      | 3    |          | 3/1/0 Cr |

|                                    |           |           |                                            |   |          |          |
|------------------------------------|-----------|-----------|--------------------------------------------|---|----------|----------|
| Compulsory - selective courses (B) | FAIS1_15  | Pazourek  | Applied Statistics                         | 5 | 2/2/0 Ex |          |
|                                    | FACP1_15  | Vranová   | Food Chemistry and Principles of Dietology | 3 | 2/0/0 Ex |          |
|                                    | FALR1_12  | Dvorská   | Production of Medicinal Plants             | 4 |          | 2/1/0 Ex |
|                                    | FACJ2_cjv | Prucklová | Advanced Czech Language **                 | 2 |          | 0/2/0 Ex |
|                                    | FAPB1_16  | Brázdová  | Pathobiochemistry                          | 4 |          | 2/1/0 Ex |

|               |           |         |                      |   |          |          |
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| Selective (C) | FAAD1_FAF | Šmejkal | Advances in Pharmacy | 2 | 1/0/0 Cr | 1/0/0 Cr |
|---------------|-----------|---------|----------------------|---|----------|----------|

## THIRD YEAR

|                        | Course code | Guarantor/<br>Teacher | Course                    | ECTS | Autumn   | Spring   |
|------------------------|-------------|-----------------------|---------------------------|------|----------|----------|
| Compulsory courses (A) | FALK1_11    | Smejkalová            | Pharmacy Practice         | 5    | 2/2/0 Ex |          |
|                        | FAFG1_12    | Šmejkal               | Pharmacognosy I           | 4    | 2/4/0 Cr |          |
|                        | FALF1_13    | Vetchý                | Theory of Dosage Forms    | 4    | 2/1/0 Ex |          |
|                        | FAFB2_15    | Farsa                 | Medicinal Chemistry II ** | 11   | 3/5/0 Ex |          |
|                        | FATO1_14    | Suchý                 | Toxicology                | 4    | 2/1/0 Ex |          |
|                        | FAFG2_12    | Šmejkal               | Pharmacognosy II **       | 10   |          | 2/5/0 Ex |
|                        | FAFT1_14    | Kollár                | Pharmacology I            | 7    |          | 3/3/0 Cr |

|                                       |          |           |                                            |   |          |          |
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| Compulsory – selective courses<br>(B) | FAEZ1_11 | Mazánková | Economics of Health Care                   | 3 | 1/1/0 Ex |          |
|                                       | FAIL1_16 | Rotrekl   | Immunology for Pharmacists                 | 3 | 2/0/0 Ex |          |
|                                       | FAMG1_16 | Hošek     | Methods of Molecular Biology               | 2 | 1/0/0 Ex |          |
|                                       | FAIZ1_12 | Malaník   | Work With Information Sources              | 2 |          | 0/1/0 Cr |
|                                       | FAZV1_15 | Farsa     | Molecular Principles of Drug Design        | 4 |          | 2/1/0 Ex |
|                                       | FABL1_16 | Hošek     | Biotechnology of Drugs                     | 4 |          | 3/0/0 Ex |
|                                       | FABL2_16 | Tremel    | Biotechnology of Drugs – Practical Classes | 2 |          | 0/2/0 Cr |

|                       |           |            |                                                                      |   |          |          |
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| Selective courses (C) | FAMI1_12  | Malaník    | Modern Methods of Extraction and Identification of Natural Compounds | 2 | 1/0/0 Ex |          |
|                       | FASC1_12  | Jurček     | Supramolecular Pharmacy                                              | 3 | 2/0/0 Ex |          |
|                       | FAIC1_15  | Opatřilová | Interactions of Medicines, People and Environment                    | 3 | 2/0/0 Ex |          |
|                       | FAAD1_FAF | Šmejkal    | Advances in Pharmacy                                                 | 2 | 1/0/0 Cr | 1/0/0 Cr |
|                       | FAMF1_15  | Opatřilová | Forensic Analysis Methods                                            | 3 |          | 2/0/0 Ex |
|                       | FASI1_15  | Opatřilová | Substance Interactions Analysis                                      | 3 |          | 2/0/0 Ex |

## FOURTH YEAR

|                        | Course code | Guarantor/<br>Teacher | Course                                    | ECT<br>S | Autumn   | Spring   |
|------------------------|-------------|-----------------------|-------------------------------------------|----------|----------|----------|
| Compulsory courses (A) | FAFP1_11    | Vašut                 | Pharmaceutical Care I                     | 2        | 1/1/0 Cr |          |
|                        | FAPE1_11    | Smejkalová            | Pharmacy Law and Ethics                   | 4        | 2/1/0 Ex |          |
|                        | FAFO1_13    | Kubová                | Dosage Forms and Biopharmacy I            | 5        | 3/6/0 Cr |          |
|                        | FAFT2_14    | Kollár                | Pharmacology II **                        | 7        | 3/3/0 Ex |          |
|                        | FAAL1_15    | Opatřilová            | Analysis of Drugs                         | 8        | 2/3/0 Ex |          |
|                        | FABU1_15    | Farsa                 | Biopharmaceuticals                        | 2        | 1/0/0 Ex |          |
|                        | FAFP2_11    | Vašut                 | Pharmaceutical Care II **                 | 4        |          | 1/2/0 Ex |
|                        | FASF1_11    | Kolář                 | Social Pharmacy                           | 4        |          | 2/1/0 Ex |
|                        | FAFO2_13    | Kubová                | Dosage Forms and Biopharmacy II **        | 11       |          | 3/6/0 Ex |
|                        | FAKF1_14    | Horská                | Pharmacotherapy and Clinical Pharmacology | 5        |          | 3/0/0 Ex |

|                                       |          |           |                                        |   |          |          |
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| Compulsory - selective courses<br>(B) | FAVP1_14 | Horská    | Non-prescription Medicines             | 3 | 1/1/0 Ex |          |
|                                       | FATL1_12 | Šmejkal   | Toxicology of Natural Compounds        | 4 | 2/1/0 Ex |          |
|                                       | FAKP1_13 | Kubová    | Cosmetic Products                      | 3 |          | 2/0/0 Ex |
|                                       | FAVG1_13 | Gajdziok  | Advanced Drug Delivery                 | 4 |          | 1/2/0 Ex |
|                                       | FANL1_13 | Vysloužil | Technology of Hospital Pharmaceuticals | 3 |          | 1/1/0 Ex |
|                                       | FAFK1_14 | Kauerová  | Pharmacokinetics                       | 3 |          | 1/0/1 Ex |
|                                       | FAKC1_11 | Lžičar    | Pharmacy Counselling                   | 2 |          | 0/1/0 Cr |

|                       |          |         |                                                                      |   |           |           |
|-----------------------|----------|---------|----------------------------------------------------------------------|---|-----------|-----------|
| Selective courses (C) | FAAM1_13 | Elbl    | Additive Manufacturing in Pharmaceutical Technology                  | 3 | 1/1/0 Col |           |
|                       | FAMI1_12 | Malaník | Modern Methods of Extraction and Identification of Natural Compounds | 2 | 1/0/0 Ex  |           |
|                       | FASC1_12 | Jurček  | Supramolecular Pharmacy                                              | 3 | 2/0/0 Ex  |           |
|                       | FATD1_14 | Horská  | Therapeutic Drug Monitoring in Clinical Practice                     | 2 | 1/0/0 Ex  |           |
|                       | FAHT1_11 | Grega   | Health Technology Assessment                                         | 3 |           | 1/1/0 Col |

FIFTH YEAR

|                       | Course code      | Guarantor/<br>Teacher | Course                                   | ECTS | Autumn       | Spring       |
|-----------------------|------------------|-----------------------|------------------------------------------|------|--------------|--------------|
| Selective courses (C) | <b>FAKJ1_15</b>  | Opatřilová            | Selected Methods of Drug Quality Control | 2    | 1/0/0 Ex     |              |
|                       | <b>FERP1_FAF</b> | Šmejkal               | Research Project I                       | 4    | 0/4/0 Cr     | 0/4/0 Cr     |
|                       | <b>FERP2_FAF</b> | Šmejkal               | Research Project II                      | 5-25 | 0/25/0<br>Ex | 0/25/0<br>Ex |

Courses '**Research project I and II**' are primarily for students in their last year of studies who are already working on their diploma thesis. The enrolment is not guaranteed in advance, students need to contact the faculty's Erasmus office at [erasmus@pharm.muni.cz](mailto:erasmus@pharm.muni.cz) well in advance so that our coordinator can find them a supervisor for the project. Only after they are assigned the supervisor, can the students enrol in the course.