# Study programme curriculumPharmacy

2024/2025

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| Name of study programme | **Pharmacy** |
| Programme characteristics |  |
| Type | single cycle master's |
| Cycle | master |
| University of Ljubljana members | * Faculty of Pharmacy, Aškerčeva 7, 1000 Ljubljana, Slovenija
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### Year 1

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038380 | Physics | Janez Bonča | 75 | 0 | 30 | 0 | 0 | 135 | 240 | 8 | 1st semester | no |
| 2. | 0038383 | Mathematics | David Dolžan | 60 | 0 | 30 | 0 | 0 | 120 | 210 | 7 | 1st semester | no |
| 3. | 0038386 | Pharmaceutical Biology with Genetics | Samo Kreft | 45 | 15 | 30 | 0 | 0 | 120 | 210 | 7 | 1st semester | no |
| 4. | 0038388 | General and Inorganic Chemistry | Saša Petriček | 60 | 0 | 45 | 0 | 0 | 135 | 240 | 8 | 1st semester | no |
| 5. | 0038381 | Anatomy and Histology | Ruda Zorc Pleskovič | 30 | 0 | 15 | 0 | 0 | 75 | 120 | 4 | 2nd semester | no |
| 6. | 0038382 | Analytical Chemistry | Nataša Gros | 45 | 15 | 45 | 0 | 0 | 135 | 240 | 8 | 2nd semester | no |
| 7. | 0038384 | Pharmaceutical Chemistry I | Aleš Obreza | 60 | 15 | 0 | 0 | 0 | 105 | 180 | 6 | 2nd semester | no |
| 8. | 0038385 | Pharmaceutical Informatics | Igor Locatelli | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | no |
| 9. | 0038387 | Microbiology | Eva Ružić-Sabljić | 10 | 20 | 15 | 0 | 0 | 75 | 120 | 4 | 2nd semester | no |
| 10. | 0038389 | Introduction to Pharmacy | Mitja Kos | 15 | 30 | 0 | 0 | 0 | 45 | 90 | 3 | 2nd semester | no |
|  | Total | 430 | 110 | 225 | 0 | 0 | 1035 | 1800 | 60 |  |

### Year 2

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038392 | Pharmaceutical Technology I | Mirjana Gašperlin | 120 | 30 | 135 | 0 | 0 | 315 | 600 | 20 | All-year | no |
| 2. | 0038395 | Physiology | Žarko Finderle | 30 | 0 | 45 | 0 | 0 | 105 | 180 | 6 | 1st semester | no |
| 3. | 0038396 | Organic Chemistry | Jurij Svete | 60 | 15 | 45 | 0 | 0 | 150 | 270 | 9 | 1st semester | no |
| 4. | 0038397 | Physical Chemistry | Miha Lukšič | 30 | 15 | 30 | 0 | 0 | 105 | 180 | 6 | 1st semester | no |
| 5. | 0038391 | Physical Pharmacy | Odon Planinšek | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | no |
| 6. | 0038393 | Pharmaceutical Biochemistry | Janko Kos | 45 | 15 | 30 | 0 | 0 | 120 | 210 | 7 | 2nd semester | no |
| 7. | 0038394 | Pharmaceutical Chemistry II | Aleš Obreza | 45 | 15 | 30 | 0 | 0 | 120 | 210 | 7 | 2nd semester | no |
|  | Total | 360 | 105 | 330 | 0 | 0 | 1005 | 1800 | 60 |  |

### Year 3

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038398 | Pharmaceutical Chemistry III | Marko Anderluh | 120 | 30 | 150 | 0 | 0 | 300 | 600 | 20 | All-year | no |
| 2. | 0038402 | Pharmacognosy I | Nina Kočevar Glavač | 60 | 0 | 30 | 0 | 0 | 180 | 270 | 9 | 1st semester | no |
| 3. | 0038400 | Pathophysiology | Sergej Pirkmajer | 45 | 30 | 0 | 0 | 0 | 105 | 180 | 6 | 1st semester | no |
| 4. | 0038403 | Instrumental Pharmaceutical Analysis | Anamarija Zega | 30 | 0 | 30 | 0 | 0 | 60 | 120 | 4 | 1st semester | no |
| 5. | 0038404 | Social Pharmacy | Mitja Kos | 30 | 0 | 30 | 0 | 0 | 60 | 120 | 4 | 1st semester | no |
| 6. | 0038399 | Pharmaceutical Technology II | Albin Kristl | 55 | 5 | 45 | 0 | 0 | 135 | 240 | 8 | 2nd semester | no |
| 7. | 0038401 | Pharmacognosy II | Nina Kočevar Glavač | 0 | 0 | 75 | 0 | 0 | 45 | 120 | 4 | 2nd semester | no |
| 8. | 0111800 | Elective course I |  | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
|  | Total | 385 | 80 | 360 | 0 | 0 | 975 | 1800 | 60 |  |

### Year 3, Izbirni predmeti

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038350 | Hospital Pharmacy | Mirjana Gašperlin | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 2. | 0038351 | Immunology | Borut Božič | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 3. | 0038352 | Nutritional Supplements | Samo Kreft | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 4. | 0038353 | Drugs in Alternative Medicine | Samo Kreft | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 5. | 0038354 | Pharmaceutical Marketing and Management | Mitja Kos | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 6. | 0038355 | Pharmacoeconomics | Mitja Kos | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 7. | 0038356 | Cosmetology | Mirjam Gosenca Matjaž | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 8. | 0038357 | Instrumental Analythical Methods in Pharmacy | Anamarija Zega | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 9. | 0038358 | Research Methods in Social Pharmacy | Nejc Horvat | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
|  | Total | 390 | 105 | 45 | 0 | 0 | 810 | 1350 | 45 |  |

### Year 4

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038405 | Pharmacology | Lovro Žiberna | 45 | 15 | 15 | 0 | 0 | 75 | 150 | 5 | 1st semester | no |
| 2. | 0038407 | Pharmaceutical Biotechnology | Borut Štrukelj | 30 | 30 | 30 | 0 | 0 | 90 | 180 | 6 | 1st semester | no |
| 3. | 0038409 | Biopharmaceutics with Pharmacokinetics | Iztok Grabnar | 60 | 30 | 30 | 0 | 0 | 150 | 270 | 9 | 1st semester | no |
| 4. | 0038410 | Stability of Medicinals | Robert Roškar | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 5. | 0111806 | Alternative course I |  | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 6. | 0038406 | Analysis and Control of Medicinals | Janez Ilaš | 45 | 0 | 60 | 0 | 0 | 135 | 240 | 8 | 2nd semester | no |
| 7. | 0038408 | Clinical Chemistry | Janja Marc | 45 | 0 | 45 | 0 | 15 | 105 | 210 | 7 | 2nd semester | no |
| 8. | 0111800 | Elective course I |  | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 9. | 0111804 | Elective course II |  | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 10. | 0111807 | Alternative course II |  | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
|  | Total | 450 | 105 | 225 | 0 | 15 | 1005 | 1800 | 60 |  |

### Year 4, Alternativni predmet I

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038346 | Design and Synthesis of Active Substances | Stanislav Gobec | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 2. | 0038347 | Toxicological Chemistry | Marija Sollner Dolenc | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
|  | Total | 90 | 0 | 30 | 0 | 0 | 180 | 300 | 10 |  |

### Year 4, Izbirni predmeti

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038371 | Pharmaceutical Engineering | Rok Dreu | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 2. | 0038366 | Psychotropic Substances and Abuse of Medicinal Products | Lucija Peterlin Mašič | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 3. | 0038367 | Biopharmaceutical Evaluation of Pharmaceutical Forms | Marija Bogataj | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 4. | 0038368 | Biochemistry of Development and Progression of Cancer | Janko Kos | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 5. | 0038369 | Eutomers | Tihomir Tomašič | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 6. | 0038370 | Modified Release Dosage Forms | Petra Kocbek | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 7. | 0038372 | Pharmacogenomics and Genetic Medicines | Irena Mlinarič Raščan | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 8. | 0038373 | Phytopharmaceuticals | Borut Štrukelj | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 9. | 0038374 | Selected Topics in Pharmaceutical Biotechnology | Tomaž Bratkovič | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 10. | 0038375 | Selected Topics in Clinical Biochemistry | Borut Božič | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 11. | 0038376 | Selected Methods of Pharmaceutical Analysis | Anamarija Zega | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 12. | 0038377 | Quality of Medicinal Products | Lucija Peterlin Mašič | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 13. | 0038378 | The Use of Genetic and Cellular Testing in Biomedicine and Pharmacy | Janja Marc | 45 | 15 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
|  | Total | 585 | 195 | 0 | 0 | 0 | 1170 | 1950 | 65 |  |

### Year 4, Alternativni predmet II

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038348 | Industrial Pharmacy | Rok Dreu | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 2. | 0038349 | Clinical Pharmacy | Tomaž Vovk | 45 | 0 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
|  | Total | 90 | 0 | 30 | 0 | 0 | 180 | 300 | 10 |  |

### Year 5

|  |  |  |
| --- | --- | --- |
|  | Contact hours |  |
|  | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0038411 | Practical Training | Nejc Horvat | 0 | 30 | 0 | 0 | 120 | 750 | 900 | 30 | All-year | no |
| 2. | 0038412 | Individual Research Work for the Master's Thesis | Mirjana Gašperlin | 0 | 2 | 0 | 0 | 118 | 630 | 750 | 25 | All-year | no |
| 3. | 0038413 | Master's Thesis Defence | Mirjana Gašperlin | 0 | 1 | 0 | 0 | 0 | 149 | 150 | 5 | All-year | no |
|  | Total | 0 | 33 | 0 | 0 | 238 | 1529 | 1800 | 60 |  |

20. january, 2025