# Study programme curriculum Laboratory biomedicine

2025/2026

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| Name of study programme | **Laboratory biomedicine** |
| Programme characteristics |  |
| Type | academic |
| Cycle | bachelor |
| University of Ljubljana members | * Faculty of Pharmacy, Aškerčeva 7, 1000 Ljubljana, Slovenija |

### 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. | 0038430 | General and Organic Chemistry | Iztok Turel, Jernej Iskra | 75 | 60 | 0 | 0 | 0 | 195 | 330 | 11 | All-year | no |
| 2. | 0038217 | Mathematics with statistics | Roman Drnovšek | 45 | 0 | 30 | 0 | 0 | 75 | 150 | 5 | 1st semester | no |
| 3. | 0038214 | Physics | Igor Muševič | 45 | 0 | 30 | 0 | 0 | 75 | 150 | 5 | 1st semester | no |
| 4. | 0038213 | Anatomy and hystology | Erika Cvetko | 30 | 0 | 30 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 5. | 0038220 | Working with Biological Samples | Nataša Karas Kuželički | 30 | 0 | 30 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 6. | 0038215 | Introduction to Biomedical Analytics | Stanislav Gobec | 30 | 0 | 30 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 7. | 0038222 | Cell biology with genetics | Irena Mlinarič Raščan | 90 | 0 | 30 | 0 | 0 | 150 | 270 | 9 | 2nd semester | no |
| 8. | 0038221 | English | Donald Francis Reindl | 30 | 30 | 0 | 0 | 0 | 60 | 120 | 4 | 2nd semester | no |
| 9. | 0038216 | Biomedical informatics | Iztok Grabnar | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | no |
| 10. | 0038218 | Analytical chemistry | Nataša Gros | 45 | 0 | 30 | 0 | 0 | 105 | 180 | 6 | 2nd semester | no |
|  | | Total | | 450 | 105 | 225 | 0 | 0 | 1020 | 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. | 0038439 | Biomedical Analytics | Joško Osredkar | 75 | 0 | 75 | 0 | 0 | 210 | 360 | 12 | All-year | no |
| 2. | 0038435 | Clinical biochemistry I | Darko Černe | 75 | 30 | 60 | 0 | 0 | 255 | 420 | 14 | All-year | no |
| 3. | 0038231 | Biochemistry | Janko Kos | 45 | 0 | 30 | 0 | 0 | 105 | 180 | 6 | 1st semester | no |
| 4. | 0038225 | Physical chemistry | Miha Lukšič | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 5. | 0038227 | Physiology | Žarko Finderle | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 6. | 0038229 | Immunology with immunochemistry | Borut Božič | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 7. | 0038230 | Microbiology with parasitology | Miroslav Petrovec | 45 | 15 | 30 | 0 | 0 | 150 | 240 | 8 | 2nd semester | no |
| 8. | 0038226 | Laboratory Histopathological Methods | Margareta Strojan Fležar | 30 | 15 | 15 | 0 | 0 | 90 | 150 | 5 | 2nd semester | no |
|  | | Total | | 360 | 105 | 255 | 0 | 0 | 1080 | 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. | 0038446 | Laboratory Work in Practice | Janja Marc | 0 | 30 | 0 | 0 | 105 | 105 | 240 | 8 | All-year | no |
| 2. | 0038237 | Clinical Haematology | Irena Preložnik Zupan | 45 | 0 | 45 | 0 | 0 | 120 | 210 | 7 | 1st semester | no |
| 3. | 0038233 | Molecular Biology Techniques in Medicine | Katarina Trebušak Podkrajšek | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | no |
| 4. | 0038234 | Clinical biochemistry II | Janja Marc | 45 | 0 | 60 | 0 | 0 | 165 | 270 | 9 | 1st semester | no |
| 5. | 0038236 | Legislation and Ethics in Biomedicine | Borut Božič | 15 | 30 | 0 | 0 | 0 | 45 | 90 | 3 | 1st semester | no |
| 6. | 0111816 | Elective course |  | 30 | 30 |  |  |  | 90 | 150 | 5 | 1st semester | yes |
| 7. | 0038232 | Basics of Transfusion Medicine and Transplantation | Matjaž Jeras | 15 | 0 | 15 | 0 | 0 | 60 | 90 | 3 | 2nd semester | no |
| 8. | 0111817 | Elective course |  | 30 | 30 |  |  |  | 90 | 150 | 5 | 2nd semester | yes |
| 9. | 0111817 | Elective course |  | 30 | 30 |  |  |  | 90 | 150 | 5 | 2nd semester | yes |
| 10. | 0111817 | Elective course |  | 30 | 30 |  |  |  | 90 | 150 | 5 | 2nd semester | yes |
| 11. | 0111817 | Elective course |  | 30 | 30 |  |  |  | 90 | 150 | 5 | 2nd semester | yes |
|  | | Total | | 300 | 240 | 120 | 0 | 105 | 1035 | 1800 | 60 |  | |

### Year 3, izbirni predmeti

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | 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. | 0105524 | Biomedical Genetics | Barbara Ostanek | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 2. | 0105525 | Hemostasis | Mojca Božič Mijovski | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 3. | 0105526 | Emergancy Laboratory Diagnostics | Darko Černe | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 4. | 0105527 | Toxicology | Marija Sollner Dolenc | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 5. | 0105528 | Cytogenetic and Molecular Genetic Methods in Haematology | Helena Podgornik | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 6. | 0105529 | Biomedical informatics II | Mitja Kos | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 7. | 0105530 | Proteomics | Borut Božič | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 8. | 0105523 | Psychotropic Drugs and Drug Abuse | Lucija Peterlin Mašič | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 9. | 0038210 | Techniques in Diagnostic Virology | Miroslav Petrovec | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 10. | 0038211 | Cellular and Tissue Cultures | Irena Mlinarič Raščan | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 11. | 0038207 | Project Work | Janja Marc | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 12. | 0643853 | Medicinal products | Anamarija Zega | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 1st semester | yes |
| 13. | 0038204 | Biomedical Genetics | Barbara Ostanek | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 14. | 0038205 | Haemostasis | Mojca Božič Mijovski | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 15. | 0038206 | Emergency Laboratory Diagnostics | Darko Černe | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 16. | 0038208 | Toxicology | Marija Sollner Dolenc | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 17. | 0038209 | Cytogenetic and Molecular Biological Tests in Haematology | Helena Podgornik | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 18. | 0105165 | Biomedical Informatics II | Mitja Kos | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 19. | 0038212 | Proteomics | Borut Božič | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 20. | 0038203 | Psychotropic substances and Abuse of Medicinal Products | Lucija Peterlin Mašič | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 21. | 0105531 | Techniques in Diagnostic Virology | Miroslav Petrovec | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 22. | 0105532 | Cell and Tissue Cultures | Irena Mlinarič Raščan | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 23. | 0105533 | Project Work | Janja Marc | 30 | 30 | 0 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
| 24. | 0643854 | Molecular biophysics | Iztok Urbančič | 40 | 10 | 10 | 0 | 0 | 90 | 150 | 5 | 2nd semester | yes |
|  | | Total | | 730 | 700 | 10 | 0 | 0 | 2160 | 3600 | 120 |  | |

20. january, 2025