

Study programme **Medical and Veterinary Genetics**

Study subjects and credits

I course

| No. | Subject/module | Credits | Semester |
|---------------|--|----------------|-----------------|
| 1. | International Professional Terminology and Professional Language | 5 | 1 |
| 2. | Foreign Language (English) | 5 | 2 |
| 3. | General biology | 5 | 1 |
| 4. | Human and Laboratory Animal Anatomy | 5 | 2 |
| 5. | Human and Animal Physiology | 5 | 1 |
| 6. | Inorganic and General Chemistry | 5 | 1 |
| 7. | Organic Chemistry | 5 | 2 |
| 8. | General Genetics | 5 | 2 |
| 9. | Cell Biology | 5 | 1 |
| 10. | Basic of Higher Mathematics and Probability Theory | 5 | 2 |
| 11. | Biological Physics | 5 | 2 |
| 12. | Elective Subject | 5 | 1 |
| Total: | | 60 | |

II course

| No. | Subject/module | Credits | Semester |
|---------------|---------------------------------------|----------------|-----------------|
| 1. | Foreign Language (English) | 5 | 3 |
| 2. | Methods of Physico-chemical analysis | 5 | 3 |
| 3. | Molecular Biology | 5 | 4 |
| 4. | Biochemistry | 5 | 3 |
| 5. | Biostatics | 5 | 3 |
| 6. | Embryology and Developmental Genetics | 5 | 3 |
| 7. | Histology | 5 | 3 |
| 8. | Basics in Microbiology and Virology | 5 | 4 |
| 9. | General and Molecular Pathology | 5 | 4 |
| 10. | Basics of Immunology | 5 | 4 |
| 11. | Plant Genetics | 5 | 4 |
| 12. | Elective Subject | 5 | 4 |
| Total: | | 60 | |

III course

| No. | Subject/module | Credits | Semester |
|---------------|------------------------------------|-----------|----------|
| 1. | Veterinary Genetics | 10 | 5 and 6 |
| 2. | Biotechnology and Gene Engineering | 5 | 6 |
| 3. | Medical Genetics I | 5 | 5 |
| 4. | Medical Genetics II | 5 | 6 |
| 5. | Analytical Chemistry | 5 | 5 |
| 6. | Bioinformatics | 5 | 5 |
| 7. | Ecological Genetics | 5 | 6 |
| 8. | Population Genetics | 5 | 5 |
| 9. | Bioethics | 5 | 6 |
| 10. | Epigenetics | 5 | 5 |
| 11. | Bachelor's Thesis | 5 | 6 |
| Total: | | 60 | |

VI course

| No. | Subject/module | Credits | Semester |
|---------------|-----------------------|-----------|----------|
| 1. | Professional Practice | 15 | 7 |
| 2. | Bachelor's Thesis | 15 | 7 |
| Total: | | 30 | |