

| | Lectures | Seminars | Exercises | Laboratory work | Internship/work placement | | | Assignments |
|---|----------|----------|-----------|-----------------|---------------------------|----|----|---|
| 1. Introduction to drug design. | 2 | 1 | | | | 3 | 3 | Textbook reading. Preparation for tutorials. |
| 2. Choosing a drug target. | 6 | 3 | | | | 9 | 16 | Textbook/reviews reading. Preparation for tutorials. |
| 3. Drug discovery: finding a lead. | 2 | 1 | | | | 3 | 9 | Textbook/reviews reading. Preparation for tutorials. |
| 4. Lead compound optimization. | 6 | 3 | | | | 9 | 16 | Textbook/reviews reading. Preparation for tutorials. |
| 5. Combinatorial synthesis, computer-aided drug design. | 6 | 3 | | | | 9 | 16 | Textbook/reviews reading. Preparation for tutorials. |
| 6. Quantitative structure-activity relationships (QSAR) | 4 | 2 | | | | 6 | 12 | Textbook/reviews reading. Preparation for tutorials. |
| 7. Pharmacokinetics. | 4 | 2 | | | | 6 | 12 | Textbook/reviews reading. Preparation for tutorials. |
| 8. Clinical trials. Getting the drug to market. | 2 | 1 | | | | 3 | 3 | Textbook/reviews reading. Preparation for tutorials. |
| Total | 32 | 16 | | | | 48 | 87 | |

| Assessment strategy | Weight,% | Deadline | Assessment criteria |
|---------------------|----------|------------------|---|
| Midterm exam | 40% | October-November | Project (oral presentation). The use of a specific biological target for therapeutic purposes or the development of a drug with a specific biological effect must be analyzed. Overall score- 10. Total score- 10x0.4 |
| Final Exam | 60% | January | Final examination. Examination consists of some tasks and questions. Overall score- 10. Total score- 10x0.6. |

| Author | Year of publication | Title | Issue of a periodical or volume of a publication | Publishing place and house or web link |
|--------------------|---------------------|--|--|--|
| Compulsory reading | | | | |
| Graham L. Patrick | 2017 | An Introduction to Medicinal Chemistry | ISBN: 9780198749691 | Oxford University Press |
| Algirdas Brukštus | 2011 | Vaistų kūrimo principai | | KTU, VU |
| Optional reading | | | | |
| Gerhard Klebe | | | ISBN 978-3-642-17906 | Springer |