**Study programme(s):** Mathematics (M3)  
**Level:** bachelor  
**Course title:** Financial Mathematics 1 (M3-22)  
**Lecturer:** Helena M. Zarin  
**Status:** obligatory  
**ECTS:** 8  
**Requirements:** none  

**Learning objectives**  
Introducing students to those parts of mathematics that are practically applied in the economy. Mastering the basic terms and concepts of financial mathematics, as well as applications of mathematical apparatus in definitions of given concepts.  

**Learning outcomes**  
Acquiring the basic knowledge necessary for a proper understanding of application of mathematical apparatus in finance. Students will gain competence in adopting the basic knowledge in a given field, in the use of mathematical literature at an appropriate level and in developing a critical way of thinking and problem analysis.  

**Syllabus**  
**Theoretical instruction**  
**Practical instruction**  

**Literature**  

<table>
<thead>
<tr>
<th>Weekly teaching load</th>
<th>Other: 0</th>
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<tbody>
<tr>
<td>Lectures: 3</td>
<td>Exercises: 4</td>
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**Teaching methodology**  
Lectures are conducted in classical teaching methods and supported by beamer presentations. Exercises are used to practice and analyse typical problems and their solutions through students’ independent work on a computer and using the adequate software packages. The ability of application of theoretical knowledge is verified through independent solving of exercises on two colloquia. At the final oral examination, students should demonstrate in-depth understanding of the presented theoretical material.  

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<thead>
<tr>
<th>Grading (maximum number of points 100)</th>
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<tbody>
<tr>
<td>Pre-exam obligations</td>
<td>Final exam</td>
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<tr>
<td>Colloquia</td>
<td>50</td>
<td>Oral exam</td>
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