## Module title
Analysis 2 for Teaching Degree (German Gymnasium)

## Abbreviation
10-M-ANL2-152-m01

### Module coordinator
Dean of Studies Mathematik (Mathematics)

### Module offered by
Institute of Mathematics

### ECTS
7

### Method of grading
(only after successful completion of module(s))

### Duration
1 semester

### Module level
Undergraduate

### Other prerequisites
--

## Contents
Further topological considerations, basics in differential calculus in several variables, inverse function theorem, implicit function theorem.

## Intended learning outcomes
The student knows and masters the essential methods and notions of analysis. He/She is acquainted with the central proof methods in analysis and can employ them to solve easy problems. He/she is able to perform easy mathematical arguments independently and to express mathematical arguments precisely and clearly in written form.

## Courses
<table>
<thead>
<tr>
<th>Type</th>
<th>Number of weekly contact hours</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>V (4) + Ü (2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Method of assessment
- Written examination (approx. 90 to 180 minutes)
- Written exercises (approx. 10 exercise sheets with approx. 4 exercises each)

Language of assessment: German and/or English

## Allocation of places
--

## Additional information
--

## Referred to in LPO I
§ 73 I Nr. 1

## Module appears in
First state examination for the teaching degree Gymnasium Mathematics (2015)