### Module title
Exam Tutorial Algebra (virtual course)

### Abbreviation
10-M-VHBExA-191-m01

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

### Module offered by
Institute of Mathematics

### ECTS
3

### Method of grading
(only after successfully completed)

### Duration
1 semester

### Module level
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### Other prerequisites
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### Contents
The exam course (university) algebra covers the central topics in classical algebra with respect to their relevance for the Bavarian state examination for the teaching degree Gymnasium. The theories of groups, rings and fields are addressed with equal importance, and fundamental algebraic concepts with their set-theoretic interrelations are discussed in detail. Each module contains problems of increasing difficulty and their solutions.

### Intended learning outcomes
The student for the teaching degree for German Gymnasium knows the central problems and the respective algebraic proof methods and is able to apply them in different contexts. The course shows the level of difficulty in the Bavarian state examination.

### Courses
(type, number of weekly contact hours, language — if other than German)

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of Weekly Contact Hours</th>
<th>Language</th>
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<tbody>
<tr>
<td>Ü</td>
<td>4</td>
<td>German</td>
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### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

<table>
<thead>
<tr>
<th>Type</th>
<th>Scope</th>
<th>Language</th>
<th>Examination Offered</th>
<th>Information on Bonus Creditability</th>
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<tbody>
<tr>
<td>project (web-based, 15 to 20 hours)</td>
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<td>Once a year, summer semester</td>
<td>E-Learning, Vhb</td>
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### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)

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### Module appears in
First state examination for the teaching degree Gymnasium Mathematics (2019)