### Module title

**Geometric Structures**

### Abbreviation

10-M=AGMS-161-m01

### Module coordinator

Dean of Studies Mathematik (Mathematics)

### Module offered by

Institute of Mathematics

### ECTS

<table>
<thead>
<tr>
<th>Module level</th>
<th>Other prerequisites</th>
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<tbody>
<tr>
<td>10 numerical grade</td>
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</table>

### Method of grading

<table>
<thead>
<tr>
<th>Duration</th>
<th>Module level</th>
<th>Only after succ. compl. of module(s)</th>
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</thead>
<tbody>
<tr>
<td>1 semester graduate</td>
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### Contents

Tits buildings, generalised polygons or related geometric structures, automorphisms, BN pairs in groups, Moufang conditions, classification results.

### Intended learning outcomes

The student is acquainted with the fundamental notions, methods and results concerning a type of geometric structure. He/She is able to establish a connection between these results and broader theories, and learns about the interactions of geometry and other fields of mathematics.

### Courses

**V (4) + Ü (2)**

Module taught in: German and/or English

### Method of assessment

a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate)

Assessment offered: In the semester in which the course is offered and in the subsequent semester

Language of assessment: German or English

### 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

- Master’s degree (1 major) Mathematics (2016)
- Master’s degree (1 major) Mathematical Physics (2016)
- Master’s degree (1 major) Computational Mathematics (2016)
- Master’s teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)
- Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)
- Master’s degree (1 major) Computational Mathematics (2019)
- Master’s degree (1 major) Mathematics (2019)