# Module title
Differential Geometry

# Abbreviation
10-M=ADGM-161-m01

## Module coordinator
Dean of Studies Mathematik (Mathematics)

## Module offered by
Institute of Mathematics

## ECTS
10

## Method of grading
numerical grade

## Duration
1 semester

## Module level
graduate

## Other prerequisites
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## Contents
Central and advanced results in differential geometry, in particular about differentiable and Riemannian manifolds.

## Intended learning outcomes
The student is acquainted with concepts and methods for differentiable manifolds or Riemannian manifolds, is able to apply these methods and knows about the interaction of local and global methods in differential geometry.

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

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<thead>
<tr>
<th>Type</th>
<th>Number of Weekly Contact Hours</th>
<th>Language</th>
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<td>V</td>
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<td>German and/or English</td>
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Module taught in: German and/or English

## 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 whether module is creditable for bonus</th>
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<td>a) written examination</td>
<td>approx. 90 to 120 minutes,</td>
<td>German or English</td>
<td>In the semester in</td>
<td>German or English</td>
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<td>usually chosen)</td>
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<td>which the course is</td>
<td>which the course is offered and in the subsequent</td>
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<td>b) oral examination of one</td>
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<td>offered</td>
<td>semester</td>
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<td>candidate each (approx. 20</td>
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<td>minutes)</td>
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<td>c) oral examination in groups</td>
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<td>(groups of 2, 15 minutes</td>
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<td>per candidate)</td>
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Assessment offered: In the semester in which the course is offered and in the subsequent semester

Language of assessment: German or English
creditable for bonus

## 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) Physics (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)