

<b>Module title</b>		<b>Abbreviation</b>
Didactics of Mathematics (German Grundschule)		10-M-DGGS-092-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
10	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
3 semester	undergraduate	--
<b>Contents</b>		
Discussion of basic topics in teaching mathematics in Grundschule taking into account modern research in mathematics didactics as well as possibilities of implementation in the classroom, also including modern technologies.		
<b>Intended learning outcomes</b>		
The student knows about the objectives of teaching mathematics in elementary school, basics in developmental psychology and didactics of mathematics, fundamentals in elementary school mathematics, as well as important models, presentations and media which can be employed in elementary school teaching of mathematics. She/he knows about common difficulties and problems of pupils in the acquisition of mathematical skills, and can employ and assess didactical principles and teaching and learning strategies.		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
This module has 4 components; information on courses listed separately for each component. <ul style="list-style-type: none"> <li>• 10-M-DGGS-P-092: M (no information on language and number of weekly contact hours available)</li> <li>• 10-M-DGGS-1-092, and 10-M-DGGS-2-092: V + Ü (no information on language and number of weekly contact hours available)</li> <li>• 10-M-DGGS-3-092: V (no information on language and number of weekly contact hours available)</li> </ul>		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
This module has the following 4 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole.		
<p><b>Assessment in module component 10-M-DGGS-P-092:</b> Didaktik der Mathematik - Prüfung (Grundschule) (Assessment Mathematics Didactics, Grundschule)</p> <ul style="list-style-type: none"> <li>• 1 ECTS credit, numerical grading</li> <li>• written examination (approx. 120 minutes); if announced by the lecturer, the written examination may be replaced by an oral examination of one candidate each (approx. 30 minutes) or an oral examination in groups (groups of 2: approx. 45 minutes, groups of 3: approx. 60 minutes) or by a written and/or multi-media portfolio (as announced).</li> <li>• Only after successful completion of module components: Module component 10-M-DGGS-P can only be taken by students who successfully completed the three module components 10-M-DGGS-1, 10-M-DGGS-2 and 10-M-DGGS-3.</li> </ul> <p><b>Assessment in module component 10-M-DGGS-1-092:</b> Didaktik der Mathematik - Arithmetik (Grundschule) (Mathematics Didactics - Arithmetic, Grundschule), <b>in module component 10-M-DGGS-2-092:</b> Didaktik der Mathematik - Geometrie (Grundschule) (Mathematics Didactics - Geometry, Grundschule)</p> <ul style="list-style-type: none"> <li>• 4 ECTS credits, pass / fail</li> <li>• exercises: at the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed.</li> </ul> <p><b>Assessment in module component 10-M-DGGS-3-092:</b> Didaktik der Mathematik - Sachbezogener Mathematikunterricht (Grundschule) (Mathematics Didactics - Application of Mathematics, Grundschule)</p> <ul style="list-style-type: none"> <li>• 1 ECTS credit, pass / fail</li> </ul>		

- exercises: at the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed.

**Allocation of places**

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**Additional information**

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**Workload**

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**Teaching cycle**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

§ 51 (1) 4. Mathematik Fachdidaktik

**Module appears in**

First state examination for the teaching degree Grundschule Mathematics (2009)