## Module title
School Mathematics from a Didactical Point of View: Analysis online (virtual course)

## Abbreviation
10-M-VHBDAN-191-m01

## Module coordinator
Dean of Studies Mathematik (Mathematics)

## Module offered by
Institute of Mathematics

## ECTS
2

## Method of grading
Only after succ. compl. of module(s)

## Duration
1 semester

## Module level
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## Other prerequisites
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## Contents
The course “School Mathematics from a Didactical Point of View: Analysis online” is about learning and teaching analysis. This course focuses on the central and important topics in school analysis: functions, sequences and limits, differential calculus, applications and integration.

## Intended learning outcomes
The students are acquainted with the subject-specific contents of school analysis, and are able to structure the notions and methods within a conceptual map. They know strategies of short, middle and long term development of understanding of the central concepts of analysis in teaching mathematics. They are able to develop and justify learning units and learning sequences for the important topics in school analysis independently. They are able to assess and value the importance of digital technology with respect to today’s and future design of instruction. They know various fields of application of concepts in analysis, and are able to perform modelling (in the sense of modelling cycles) independently.

## Courses
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<tr>
<th>Type</th>
<th>Number of weekly contact hours</th>
<th>Language</th>
<th>Examination offered</th>
<th>Module is creditable for bonus</th>
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## Method of assessment
Projects (web-based, 15 to 20 hours)
Assessment offered: Once a year, winter semester
Other: E-Learning, Vhb

## Allocation of places
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## Additional information
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## Referred to in LPO I
§ 22 II Nr. 3 f

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