# Module Description

## Module title

### Introduction to Partial Differential Equations

### Abbreviation

10-M-PAR-152-m01

## Module Coordinator

Dean of Studies Mathematik (Mathematics)

## Module offered by

Institute of Mathematics

## ECTS

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>(not) successfully completed</td>
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## Duration

1 semester

## Module level

undergraduate

## Other prerequisites

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## Contents

Examples of partial differential equations and partial differential equations of first order, existence and uniqueness theorems, basic equations of mathematical physics, boundary value problems, maximum principle and Dirichlet problem.

## Intended learning outcomes

The student is acquainted with the fundamental concepts and methods in the theory of partial differential equations. He/she is able to apply these methods to practical problems.

## Courses

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

V (4) + Ü (2)

## Method of assessment

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate)

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

Language of assessment: German and/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

Bachelor’ degree (1 major) Mathematics (2015)
Bachelor’ degree (1 major) Mathematical Physics (2015)
Bachelor’ degree (1 major) Computational Mathematics (2015)
Bachelor’ degree (1 major) Mathematical Physics (2016)