

# Course Manual MA1

Mathematics 1

Version: 3 | Last Change: 05.04.2022 20:08 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

## – General information

<b>Long name</b>	Mathematics 1
<b>Approving CModule</b>	<a href="#">MA1 BaTIN</a> , <a href="#">MA1 BaOPT</a>
<b>Responsible</b>	Prof. Dr. Heiko Knospe Professor Fakultät IME
<b>Valid from</b>	winter semester 2020/21
<b>Level</b>	Bachelor
<b>Semester in the year</b>	winter semester
<b>Duration</b>	Semester
<b>Hours in self-study</b>	156
<b>ECTS</b>	10
<b>Professors</b>	Prof. Dr. Heiko Knospe Professor Fakultät IME  Prof. Dr. Hubert Randerath Professor Fakultät IME  Prof. Dr. Beate Rhein Professor Fakultät IME  Prof. Dr. Holger Weigand Professor Fakultät IME
<b>Requirements</b>	-
<b>Language</b>	German
<b>Separate final exam</b>	Yes

## Literature

P. Hartmann, Mathematik für Informatiker, Vieweg Verlag

T. Westermann, Mathematik für Ingenieure, Springer Verlag

T. Rießinger, Mathematik für Ingenieure, Springer Verlag

M. Knorrenschild, Mathematik für Ingenieure 1, Hanser Verlag

W. Schäfer, G. Trippler, G. Engeln-Müllges (Hrg.), Kompaktkurs Ingenieurmathematik, Fachbuchverlag Leipzig

L. Papula, Mathematik für Ingenieure und Naturwissenschaftler, Band 1 und 2, Vieweg+Teubner Verlag

G. Hoever, Höhere Mathematik kompakt, Springer Verlag

O. Forster, Analysis 1, Vieweg Verlag

C. Blatter, Analysis 1, Springer Verlag

hm4mint.nrw, Online-Kurs Höhere Mathematik 1

M. Spivak, Calculus, Cambridge University Press

G. Strang, Lineare Algebra, Springer Verlag

H. Grauert, I. Lieb, Differential- und Integralrechnung I, Springer Verlag

## Final exam

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**Details**

Written exam

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**Minimum standard**

Passing the exam

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**Exam Type**

EN Klausur

## – Lecture / Exercises

### Learning goals

Goal type	Description
Knowledge	-
Knowledge	-
Knowledge	-
Knowledge	-
Knowledge	-
Knowledge	-

### Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	5
Exercises (whole course)	0
Exercises (shared course)	3
Tutorial (voluntary)	2

### Special requirements

none

**Accompanying material** -, -, -, undefined, undefined

**Separate exam** Yes

### Separate exam

**Exam Type** EN Übungsaufgabe mit fachlich / methodisch eingeschränktem Fokus lösen

**Details** -

**Minimum standard** -

## – Lecture / Exercises

### Learning goals

Goal type	Description
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Knowledge	-
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### Special requirements

none

### Expenditure classroom teaching

Type	Attendance (h/Wk.)
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Exercises (whole course)	0
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Exercises (shared course)	0
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Practical training	0
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Tutorial (voluntary)	0
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Accompanying material	undefined
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Separate exam	Yes
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### Separate exam

Exam Type	EN Übungsaufgabe mit fachlich / methodisch eingeschränktem Fokus lösen
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Details	-
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Minimum standard	-
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