### Module title
Stochastics 1

### Abbreviation
10-M-ST1-072-m01

### Module coordinator
Dean of Studies Mathematik (Mathematics)

### Module offered by
Institute of Mathematics

### ECTS
8

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
undergraduate

### Other prerequisites
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### Contents
Combinatorics, Laplace models, selected discrete distributions, elementary measure and integration theory, continuous distributions: normal distribution, random variable, distribution function, product measures and stochastic independence, elementary conditional probability, characteristics of distributions: expected value and variance, limit theorems: law of large numbers, central limit theorem.

### Intended learning outcomes
The student is acquainted with fundamental concepts and methods in stochastics, applies these methods to practical problems and knows about the typical fields of application.

### Courses
V + Ü (no information on SWS (weekly contact hours) and course language available)

### Method of assessment
(a) written examination (90 minutes; usually chosen) or (b) oral examination of one candidate each (20 minutes) or (c) oral examination in groups (groups of 2, 30 minutes)

### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)

### Module appears in
- Bachelor' degree (1 major) Computer Science (2007)
- Bachelor' degree (1 major) Mathematics (2007)