



# Research Colloquium on Algorithms and Complexity

**Module title:**

Research Colloquium on Algorithms and Complexity

**Credits:**

3

**Responsible person:**

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**Display language:**

Englisch

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## Learning Outcomes

Participants of this module have learned how to critically read and evaluate scientific papers. They are able to work independently to gain an understanding of current research results and the methods and proofs behind. They can communicate the central ideas behind and discuss the value of the presented findings. They know about the key features of good oral presentations and the preparation of a corresponding handout (2-4 pages).

## Content

In this seminar recent research of our group and special invited guests is presented. The main topics arise from algorithms, complexity, and corresponding applications. The seminar is an excellent opportunity for advanced students to get in touch with current topics in our research field, or to present their own results in this context.

## Module Components

Course Name	Type	Number	Cycle	SWS
Research Colloquium on Algorithms and Complexity	SEM	0434 L 230	WS/SS	2

## Workload and Credit Points

Research Colloquium on Algorithms and Complexity (Seminar)	Multiplier	Hours	Total
Vor-/Nachbereitung	15.0	4.0h	60.0h
Präsenzzeit	15.0	2.0h	30.0h
			90.0h

The Workload of the module sums up to 90.0 Hours. Therefore the module contains 3 Credits.

## Description of Teaching and Learning Methods

Classic seminar with conference style talks. Participating students have to write a handout (2-4 pages), where central ideas and methods presented in the talk are summarized.

## Requirements for participation and examination

**Desirable prerequisites for participation in the courses:**

- a) obligatory: Bachelor in Computer Science, Technical Computer Science, or Mathematics
- b) desirable: Further knowledge on algorithms and complexity

**Mandatory requirements for the module test application:**

*No information*

## Module completion

**Grading:**

graded

**Type of exam:**

Portfolio examination

**Language:**

English

**Grading scale:**

This exam uses its own grading scale (see test description)..

**Test description:**

According to §47 (2) AllgStuPO the grade will be calculated applying grading key 1 of Fakultät IV, it may however be altered in favour of the students.

Test elements	Categorie		Duration/Extent
(Ergebnisprüfung) handout	written	30	5 pp
(Ergebnisprüfung) talk	oral	70	60 min

## Duration of the Module

This module can be completed in one semester.

## Maximum Number of Participants

The maximum capacity of students is 12

## Registration Procedures

Please register at QISPOS or directly at the examination office.

## Recommended reading, Lecture notes

### Lecture notes:

*unavailable*

### Electronical lecture notes :

*unavailable*

### Recommended literature:

### Recommended Reading:

The participants are asked to research on their own in order to contribute to the seminar.

## Assigned Degree Programs

This module is used in the following modulelists:

### Computer Engineering (Master of Science)

StuPO 2015

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018 WS 2018/19 SS 2019 WS 2019/20

### Computer Science (Informatik) (Master of Science)

StuPO 2015

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018 WS 2018/19 SS 2019 WS 2019/20

### Elektrotechnik (Master of Science)

StuPO 2015

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018 WS 2018/19 SS 2019 WS 2019/20

### Informatik (Master of Science)

MSc Informatik PO 2013

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018 WS 2018/19 SS 2019 WS 2019/20

## Miscellaneous

*No information*