Name of Module: Research Colloquium on Algorithms and Complexity		**CP (ECTS):** 3	**Short Name:** MINF-ResColl.S12
Person Responsible for Module: Prof. Rolf Niedermeier	**Secretariat:** TEL 5-1	**e-mail address:** rolf.niedermeier@tu-berlin.de	

Module Description

1. Qualification Aims

Participants of this module have learnt how to critically read and evaluate scientific papers. They are able to work independently to gain an understanding of recently published results and the methods and proofs behind. They can communicate the central ideas behind to non-experts 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 (5-10 pages).

The course is **principally** designed to impart
technical skills **40%**, method skills **40%** system skills **0%** social skills **20%**

2. Content

In this seminar recent research of our group and special invited guests is presented. The main topics are parameterized algorithmics and complexity. The seminar is an excellent opportunity for advanced students to get in touch with current topics in our research field.

3. Module Components

Course Name	Course type	Weekly hours per semester	CPs (acc. to ECTS)	Compulsory(C) / Compulsory Elective (CE)	Semester (WiSe / SoSe)
Research Colloquium on Algorithms and Complexity	SE	2	3	C	WiSe+SoSe

4. Description of Teaching and Learning Methods

Classic seminar with conference style talks. Participating students have to write a handout (5-10 pages), where central ideas and methods presented in the talk are summarized.

5. Prerequisites for Participation

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

6. Target Group of Module

Computer Science Master with focus “Reliable Systems”
Computer Science Master with focus “Intelligent Systems”
Computer Science Diploma
Computer Engineering Master with focus “Software Engineering”
Computer Engineering Diploma

7. Work Requirements and Credit Points

Course Type	Calculation Factor	Hours
Lecture	15x2	30
Search for material and references		20
Preparation of presentation		20
Writing seminar paper		20
Total		90

8. Module Examination and Grading Procedures

60% talk, 30% handout, 10% active participation

9. Duration of Module

1 semester

10. Number of Participants

Around 12 participants

11. Enrolment Procedures

http://www.akt.tu-berlin.de

12. Recommended Reading, Lecture Notes

Lecture notes available in paper form? yes Ÿ no **X**
Lecture notes available in electronic form? yes Ÿ no **X**

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

13. Other Information