

<b>Name of Module:</b> Hot Topics in Operating Systems and Distributed Systems		<b>CP (ECTS):</b> 3	<b>Short Name:</b> MINF-SE-OSSem
<b>Person Responsible for Module:</b> Heiss	<b>Secretariat:</b> EN 6	<b>e-mail address:</b> heiss@cs.tu-berlin.de	
<b>1. Module Description</b>			

### 1. Qualification Aims

Ability to analyze the state of the art of a research topic and to summarize it for an expert audience. The students learn to find and to classify publications on research, to give oral presentations covering a complex topic, and to write a research paper. The students get familiar with techniques used in the scientific community like peer reviews, conference presentations, and defending the finding in a discussion after the presentation.

The course is **principally** designed to impart  
technical skills 10 %, method skills 45 % system skills 0 % social skills 45%

### 2. Content

The students choose a currently highly active topic within the domain of operating system and distributed system research. By analyzing their topic and listening to the talks of the other participants, the students learn about leading edge research results. Furthermore, the students learn presentation techniques for the talk and scientific writing skills.

### 3. Module Components

Course Name	Course type	Weekly hours per semester	CPs (according to ECTS)	Compulsory(C) / Compulsory Elective (CE)	Semester (WS / SS)
Seminar Hot Topic in OS & DS	S	2	3	C	WS/SS

### 4. Description of Teaching and Learning Methods

The module consists mainly of self-organized work by the individual students with regular individual or group meetings with the supervisor. Matching the progress there are lectures introducing the seminar topic, on presentation techniques, and on scientific writing. The central element is the talk session given by the students after they analyzed their topic. The written documentation is subject to a peer review process within the class before it is submitted for grading.

### 5. Prerequisites for Participation

The contents of the modules Operating System Design or Embedded Operating Systems.

### 6. Target Group of Module

Master students of Computer Science and Computer Engineering

7. Work Requirements and Credit Points		
Course Type	Calculation Factor	Hours
Presence in meetings	2*15	30
Search for material and references		20
Preparation of presentation		16
Writing seminar paper		16
Peer Review		8
Total		90

**8. Module Examination and Grading Procedures**

The exam consists of several achievements (Prüfungsäquivalente Studienleistungen): The talk and the research paper contribute 50% each to the final mark.

**9. Duration of Module**

1 semester

**10. Number of Participants**

8-10

**11. Enrolment Procedures**

See homepage of module at <http://www.kbs.tu-berlin.de>

**12. Recommended Reading, Lecture Notes**

Lecture notes available in paper form?      yes       no  **X**  
 If yes, where can they be purchased?  
 Lecture notes in paper form are sometimes made available during class.  
 Lecture notes available in electronic form?      yes       no   
 If yes, please specify web address: <http://kbs.tu-berlin.de>

**Recommended Reading:** will be announced.

**13. Other Information**

Module may not be offered each year.