

Name of Module: Operating System Project and Seminar		CP (ECTS): 9	Short Name: MINF-SE-OSPJ
Person Responsible for Module: Heiss	Secretariat: EN 6	e-mail address: heiss@cs.tu-berlin.de	
1. Module Description			

1. Qualification Aims
<p>Ability to solve a specific development problem in the area of operating systems as a team. Competence in design of concurrent software, teamwork, project management, documentation, presentation</p> <p>The course is principally designed to impart technical skills 20 %, method skills 40 % system skills 0 % social skills 40%</p>

2. Content
<p>The module consists of a complex demanding development project in which the students perform design- and implementation tasks in self-organizing way. The module starts with a seminar phase to acquire the state of the art.</p>

3. Module Components					
Course Name	Course type	Weekly hours per semester	CPs (according to ECTS)	Compulsory(C) / Compulsory Elective (CE)	Semester (WS / SS)
Operating System Project	PJ	4	6	C	WS/SS
Hot Topics in OS and DS	SE	2	3	C	WS/SS

4. Description of Teaching and Learning Methods
<p>The module is strongly self-organized by the students. The supervisor only defines goals and helps to resolve conflicts. The module starts with a seminar phase to acquire the state of the art relevant to the project. In this phase, students give presentations and write seminar papers. After that, the task to be solved is analyzed and modularized, specifications are written, roles and functions assigned, and milestones defined. The project ends with a joint presentation of the final result and the submission of a written report.</p>

5. Prerequisites for Participation
<p>The contents of the modules Operating System Design or Embedded Operating Systems.</p>

6. Target Group of Module
<p>Master students of Computer Science and Computer Engineering</p>

7. Work Requirements and Credit Points		
Course Type	Calculation Factor	Hours
Presence in meetings	4*15	60
Search for material and references		15
Preparation of presentation		25
Writing seminar paper		20
Implementation work		130
Final presentation		20
Total		270

8. Module Examination and Grading Procedures
 The exam consists of several achievements (Prüfungsäquivalente Studienleistungen): In the seminar phase, both the presentation and the seminar paper contribute with 15% each to the final grade. In the project phase, implementation, final report, and final presentation account for 30%, 20,% and 20% resp. Each partial achievement must be passed separately. After successful completion a seminar and project certificate will be issued which meet the master's program's requirements.

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 **X** 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.
 German name of module: "Betriebssystem-Projekt und -Seminar"