



Hot Topics in Operating Systems and Distributed Systems

Module title: Hot Topics in Operating Systems and Distributed Systems	Credits: 3	Responsible person: Heiß, Hans-Ulrich
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Learning Outcomes

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%.

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.

Module Components

Course Name	Type	Number	Cycle	SWS
Hot Topics in OS	SEM	0432 L 539	WS/SS	2

Workload and Credit Points

Hot Topics in OS (Seminar)	Multiplier	Hours	Total
Peer review	1.0	8.0h	8.0h
Preparation of presentation	1.0	16.0h	16.0h
Presence in meetings	15.0	2.0h	30.0h
Search for material and references	1.0	20.0h	20.0h
Writing of seminar paper	1.0	16.0h	16.0h
			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

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.

Requirements for participation and examination

Desirable prerequisites for participation in the courses:

Sound knowledge of operating systems, embedded operating systems, or security aspects (depending on the actual topics of the seminar).

Mandatory requirements for the module test application:

No information

Module completion

Grading: graded	Type of exam: 100 points in total	Language: English
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Grading scale:

Note:	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0
Punkte:	95.0	90.0	85.0	80.0	75.0	70.0	65.0	60.0	55.0	50.0

Test description:

Insgesamt können 100 Portfoliopunkte erreicht werden.

Paper / schriftliche Ausarbeitung: 50 Punkte
Talk / Referat: 50 Punkte

Die Gesamtnote gemäß § 47 (2) AllgStuPO wird nach dem Notenschlüssel 2 der Fakultät IV ermittelt.

After successful completion, a seminar certificate will be issued which meets requirements of the master's program.

Test elements	Categorie	Points	Duration/Extent
Paper / schriftliche Ausarbeitung	written	50	6 Seiten
Talk / Referat	oral	50	20 Minuten

Duration of the Module

This module can be completed in 1 semesters.

Maximum Number of Participants

This module is limited to maximum capacity of 10

Registration Procedures

See <http://www.kbs.tu-berlin.de>

Recommended reading, Lecture notes**Lecture notes:**

unavailable

Electronical lecture notes :

unavailable

Recommended literature:

Material and additional information will be available in electronic form via <http://www.kbs.tu-berlin.de>.

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
Computer Science (Informatik) (Master of Science)
StuPO 2015
Modullisten der Semester: SS 2017 WS 2017/18
Double-Degree-Masterstudiengang ICT Innovation (Master of Science)
Msc ICT Innovation PO 2014
Modullisten der Semester: SS 2017 WS 2017/18
MSc ICT Innovation StuPO 2016
Modullisten der Semester: SS 2017 WS 2017/18
Msc ICT Innovation StuPO 2017
Modullisten der Semester: WS 2017/18
Elektrotechnik (Master of Science)
StuPO 2015
Modullisten der Semester: SS 2017 WS 2017/18
Informatik (Master of Science)
MSc Informatik PO 2013
Modullisten der Semester: SS 2017 WS 2017/18
Technische Informatik (Master of Science)
StuPO 2013
Modullisten der Semester: SS 2017 WS 2017/18
Wirtschaftsinformatik / Information Systems Management (Master of Science)
StuPO 2013
Modullisten der Semester: SS 2017 WS 2017/18
StuPO 2017
Modullisten der Semester: WS 2017/18
Wirtschaftsingenieurwesen (Master of Science)
StuPO 2015
Modullisten der Semester: WS 2017/18

Miscellaneous

This module may not be offered every semester.