Seminar Software and Embedded Systems Engineering

Module title:
Seminar Software and Embedded Systems Engineering

Credits:
3

Responsible person:
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Website:
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Display language:
English

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Learning Outcomes

Graduates of this module are able to understand current research papers in the field of embedded systems, software engineering, verification and/or testing and to present their results.

Content

Current research papers in the field of embedded systems, software engineering, verification and/or testing. Specific topics change every semester depending on latest news in the field.

Module Components

Course Name	Type	Number	Cycle	SWS
Seminar Programmierung eingebetteter Systeme	SEM		WS/SS	2

Workload and Credit Points

Seminar Programmierung eingebetteter Systeme (Seminar)	Multiplier	Hours	Total
Contact Hours	5.0	2.0h	10.0h
Preparation of Presentation and Report	1.0	66.0h	66.0h
Presentations	1.0	10.0h	10.0h
Reviews	1.0	4.0h	4.0h
			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 students have to read current research papers, prepare a talk, write a report and review reports of other students. Students are also required to attend the talks of other participants.

Requirements for participation and examination

Desirable prerequisites for participation in the courses:

Knowledge from bachelor modules in Computer Science/Technical Computer Science/Software Engineering or the like.

Mandatory requirements for the module test application:

No information

Module completion

Grading:
graded

Type of exam:
Portfolio examination
100 points in total

Language:
English

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:

The students have to prepare a written report of 6-9 pages and a presentation. They also have to write reviews of reports of other students. Students also have to contribute to the Question & Answer session of the talks of other participants.

According to § 47 (2) AllgStuPO the final mark is calculated using the grading key 2 of school IV.

Test elements	Categorie	Points	Duration/Extent
Presentation	oral	45	45 min
Report	written	45	6 -9 p
Reviews	written	10	2 p

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

A registration is necessary. The registration takes place during the first meeting, where also possible topics are presented to the students. Further information can be found on our website (http://www.sese.tu-berlin.de)

Recommended reading, Lecture notes

Lecture notes:
unavailable

Electronical lecture notes :
available

Additional information:
http://www.sese.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 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
- ICT Innovation (Master of Science)
  - MSc ICT Innovation StuPO 2019
    - Modullisten der Semester: WS 2019/20
- ICT Innovation (Master of Science)
  - MSc ICT Innovation StuPO 2016
    - Modullisten der Semester: SS 2017 WS 2017/18 SS 2019
- ICT Innovation (Master of Science)
  - Msc ICT Innovation StuPO 2017
    - Modullisten der Semester: WS 2017/18 SS 2018 WS 2018/19 SS 2019
- ICT Innovation (Master of Science)
  - MSc ICT Innovation StuPO 2018
    - Modullisten der Semester: WS 2018/19 SS 2019
- 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
- Technische Informatik (Master of Science)
  - StuPO 2013
    - Modullisten der Semester: SS 2017 WS 2017/18 SS 2018 WS 2018/19
- Wirtschaftsinformatik / Information Systems Management (Master of Science)
  - StuPO 2013
    - Modullisten der Semester: SS 2017 WS 2017/18 SS 2018 WS 2018/19 SS 2019 WS 2019/20
- Wirtschaftsinformatik / Information Systems Management (Master of Science)
  - StuPO 2017
    - Modullisten der Semester: WS 2017/18 SS 2018 WS 2018/19 SS 2019 WS 2019/20
- Wirtschaftsingenieurwesen (Master of Science)
  - StuPO 2015
    - Modullisten der Semester: SS 2017 WS 2017/18 SS 2018 WS 2018/19 SS 2019 WS 2019/20

Miscellaneous

The literature is announced during the first meeting and on our website.