

<b>Modul – No.</b>	<b>784</b>	<b>Mandatory</b>	
<b>Module name</b>	Topics in Computer Engineering		
Module coordinator	Prof. Dr. M. Schölzel		
Title	Seminar on Topics in Computer Engineering		
Title of examination	Seminar on Topics in Computer Engineering		
Semester	1		
Course Type	Language	Lecture including exercises	English
SWS/ ECTS/ Workload	2	5	150
Requirements for attendance	None		

### 1. Content and objectives

#### **Content:**

Students prepare a presentation on current topics in computer engineering. The topics and literature are provided from the lecturers of the institute. Provided literature can be a scientific article in a journal or conference proceeding as well as a book chapter, or another scientific publication. The presentation is given in front of the course attendees. The presentation should also include a discussion of the results from the perspective of the student.

#### **Objectives:**

The students should learn:

- to read a scientific paper,
- to prepare a well-designed presentation,
- practice a good presentation style, and
- to deal critical with a topic,
- to contribute to a technical group discussion.

#### **Recommended Literature:**

- Michael Alley, The Craft of Scientific Writing, 4<sup>th</sup> Ed, 2018, Springer
- Hofmann, Angelika H, Scientific Writing and Communication: Papers, Proposals, and Presentations, 4th Ed, 2019, Oxford University Press
- Wayne C. Booth, The Craft of Research, 4th Ed, 2016, University of Chicago Press

The course also uses changing bibliographic references to technical publications that are provided along with the topics.

### 2. Methods of instructions

Students receive an introductory lecture.

Students prepare during the first ten weeks of the semester the presentation. This includes

- a consultation with the instructor of 30 min about the content of the presentation and
- a consultation with the instructor of 30 min about the presentation style.

The presentation including a discussion with the audience.

### 3. Requirements for attendance

No course specific requirements.

### 4. Usability of this module

The module is offered as mandatory course in the master study course „Computer Engineering for IoT Systems“ as well as elective course in other master courses of the Engineering Department.

### 5. Requirements for assessment

Assessment is performed based on the quality of the prepared material for the consultation and participation in the discussions of other students' presentations (25 %) and the final presentation itself (75%). The assessment can be partly based on the group results.

### 6. ECTS credits

5 ECTS credits

<b>7. Frequency of offer</b>
Every summer term
<b>8. Work load</b>
150 h of total work load, from: <ul style="list-style-type: none"><li>• 20 h of presence for listening/giving the presentation</li><li>• 40 hours for reading and understanding the literature</li><li>• 90 hours for preparing the presentation and documents for consultation</li></ul>
<b>9. Duration of module</b>
1 semester