Course Digital Signal Processing

Course
- Meets requirements of following modules(MID)
- Course Organization
- Assessment

Course components
- Lecture/Exercise
- Lab

Responsible: Prof. Dr.-Ing. Harald Elders-Boll

Course

Meets requirements of following modules(MID)

- in active programs
  - Ma CSN2012 DSP
  - Ma TIN2012 DSP

Course Organization

Version	
created	2013-04-25
VID	2
valid from	WS 2012/13
valid to	

Course identifiers	
Long name	Digital Signal Processing
CID	F07_DSP
CEID (exam identifier)	

Contact hours per week (SWS)	
Lecture	2
Exercise (unsplit)	1
Exercise (split)	
Lab	1
Project	
Seminar	
Tutorial(voluntary)	

Total contact hours	
Lecture	30
Exercise (unsplit)	15
Exercise (split)	
Lab	15
Project	
Seminar	
Tutorial (voluntary)	

Max. capacity	
Exercise (unsplit)	15
Exercise (split)	
Lab	15
Project	15
Seminar	

Total effort (hours): 150

Instruction language

- Englisch

Study Level

- Graduate

Prerequisites

- No formal requirements, but students will be expected to be familiar with:
  - Basic Knowledge of Signals and Systems
    - Continuous-Time LTI-Systems and Convolution
    - Fourier-Transform
  - Basic Knowledge of Probability and Random Variables

Textbooks, Recommended Reading

- John G. Proakis and Dimitris K. Manolakis. Digital Signal Processing (4th Edition). Prentice Hall, 2006.
- Alan V. Oppenheim, Ronald W. Schafer. Discrete-Time Signal Processing (3rd Edition). Prentice Hall, 2007.
- Vinay Ingle and John Proakis. Digital Signal Processing using MATLAB. Cengage Learning Engineering, 2011.

Instructors

- Prof.Dr. Harald Elders-Boll

Supporting Scientific Staff

- Dipl.-Ing.Martin Seckler

Transcipt Entry

Digital Signal Processing

Assessment

Type	
oE	oral exam (80%), normal case (large number of assessments: wE)

Total effort [hours]	
oE	10

Frequency: 2-3/year

Course components

Lecture/Exercise

Objectives

Additional Component Assessment

Type	
fAP	2-3 tests
fPS	tutorial

Contribution to course grade	
fAP	20%
fPS	not rated

Frequency: 1/Jahr

Lab

Objectives

Additional Component Assessment

Type	
fSZ	lab experiments

Contribution to course grade	
fSZ	prerequisite for the final exam

Frequency: 1/Jahr

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