

EBU4375 Signals and Systems: Introduction



Lecturers



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Weeks 1 & 2



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Weeks 3 & 4
Module Organiser

Course contents and schedule

The main topics covered by this course are organised as follows:

- ▶ Week 1: Signals and systems in the time domain.
- ▶ Week 2: Continuous-time signals in the frequency domain.
- ▶ Week 3: Discrete-time signals in the frequency domain.
- ▶ Week 4: Sampling theory and communication systems.

Recommended textbooks

- ▶ Signals and Systems (2nd edition), Alan V. Oppenheim, Alan S. Willsky and S. Hamid Nawab, ISBN 978-0136511755.
- ▶ Signals and Systems For Dummies, Mark Wickert, ISBN 978-1118475812

Prerequisite knowledge

- ▶ Complex numbers
- ▶ Graphing and functions (trigonometric, exponentials)
- ▶ Series
- ▶ Integration

Assessment

- ▶ Exam: 75 %
- ▶ Class test and final assignment: 12.5 %
- ▶ Lab work: 12.5 %

Timetable

Weeks 6, 9, 12 and 15

- ▶ 2 hours lectures on Mon, Tue, Wed, Thu (S103)
- ▶ 1 hour lab session on Friday
 - ▶ 2017215117-18 → 9:00-10:00 (S513)
 - ▶ 2017215119-20 → 10:00-11:00 (S510)
 - ▶ 2017215121-22 → 11:00-12:00 (S510)

Weeks 7, 10 and 14

- ▶ 2 hours tutorials with demonstrators (dates to be confirmed)

Week 11

- ▶ Class test (date to be confirmed)