

MASTER OF SCIENCE IN ENGINEERING

ELECTRICAL ENGINEERING/ COMPUTER ENGINEERING

HENRIK KARSTOFT
INGENIØRDOCENT
HEAD OF PROGRAMS



OVERALL STRUCTURE OF PROGRAMS

Research based Master Programs in Electrical and Computer Engineering, based on state of the art knowledge. Courses are divided into 4 classes, with different objectives:

1. Mandatory courses (30 ECTS ~ 6 courses)
objective: Broad basis of skills within ECE-area, course objective spans from focus on analysis to focus on synthesis.
2. Specialization course packages (30 ECTS ~ 2 packages ~ 2*3 courses)
objective : Specializations within ECE-research areas.
3. Electives (30 ECTS ~ 6 courses)
objective : Can be used for more specialization or broadening of ECE-competences.
4. Thesis (30 ECTS)
objective : Scientific writing, thesis report

Programs in boxes

Electrical Engineering

Q3	System Engineering	Photonic Engineering Principles	Specialization Course Sx.1
Q4	Wireless Sensor Networks and Electronics	Specialization Course Sx.2	Specialization Course Sx.3
Q1	Optimization in ICT and Physical Systems	Electronic Hardware System Design	Specialization Course Sy.1
Q2	ST Innovation and Entrepreneurship	Specialization Course Sy.2	Specialization Course Sy.3
Q3	Elective	Elective	Elective
Q4	Elective	Elective	Elective
Q1	Thesis		
Q2			

Computer Engineering

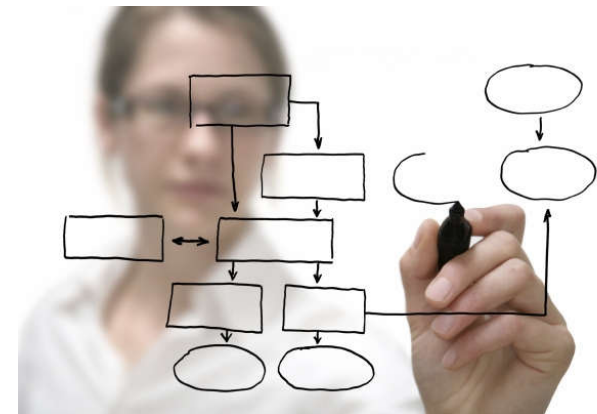
Q3	System Engineering	Information Theory and Coding	Specialization Course Sx.1
Q4	Wireless Sensor Networks and Electronics	Specialization Course Sx.2	Specialization Course Sx.3
Q1	Optimization in ICT and Physical Systems	Software Engineering Principles	Specialization Course Sy.1
Q2	ST Innovation and Entrepreneurship	Specialization Course Sy.2	Specialization Course Sy.3
Q3	Elective	Elective	Elective
Q4	Elective	Elective	Elective
Q1	Thesis		
Q2			

Mandatory courses in ECE programs

Mandatory courses (30 ECTS = 6 courses):

1. System Engineering (spring) (EE/CE)
2. Wireless Networks and Electronics (spring) (EE/CE)
3. Information theory and coding (spring) (CE)
Photonic Engineering Principles (spring) (EE)

1. Science and Technological
Innovation and Entrepreneurship (fall) (EE/CE)
2. Optimization in ICT and physical systems (fall) (EE/CE)
3. Software Engineering principles (fall) (CE)
Electronic Technology Platforms (fall) (EE)



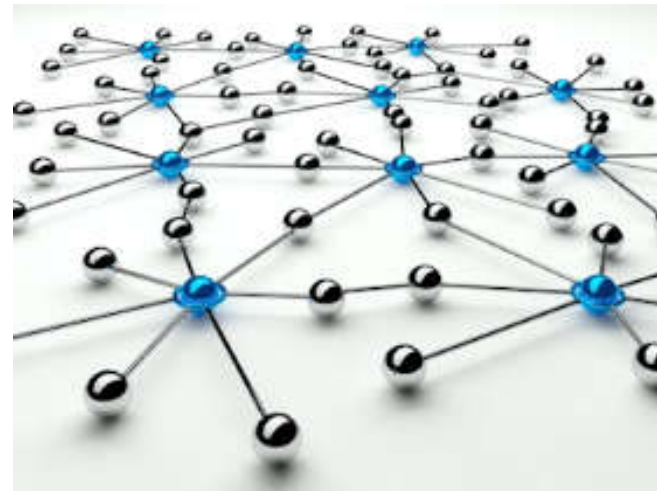
Specialization packages in ECE programs

Specializations within:

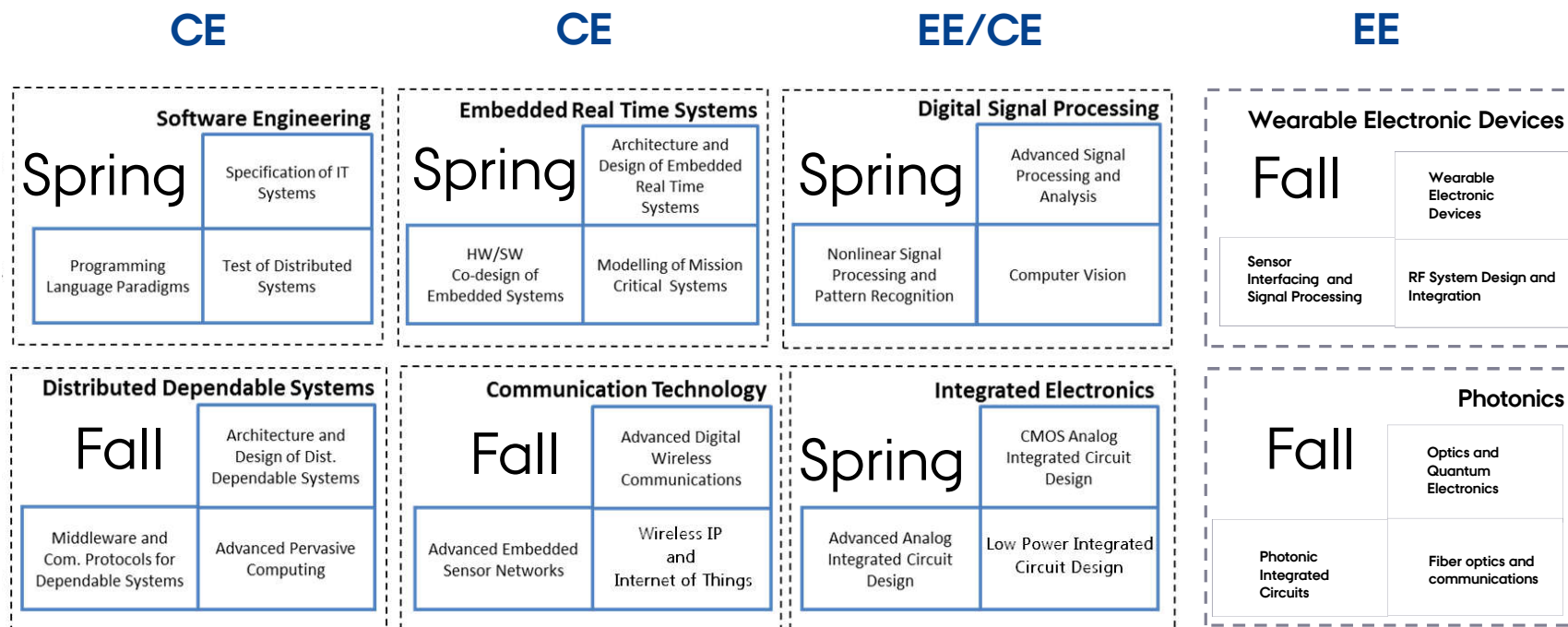
- › Software Engineering (spring) (CE)
- › Embedded Real-time Systems (spring) (CE)
- › Distributed Dependable Systems (fall) (CE)
- › Communication Technology (fall) (CE/EE)

- › Digital Signal Processing (spring)(CE/EE)

- › Integrated Electronics (spring) (EE)
- › Photonics (fall) (EE)
- › Wearable Electronic Devices (fall) (EE)



Specialization packages in programs



Further Information

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Useful links:

Course homepages:

<http://kurser.iha.dk/ee-ict-master/>

Description of packages:

<http://kurser.iha.dk/ee-ict-master/tipackages/>