

Courses to support mechatronic study path – Suggested courses outside ENG

Kari Tammi

Mechatronics courses at ENG

MEC-E5001 Mechatronic Machine Design, 5, III, Kari Tammi MEC-E5002 Mechatronics Project, 10, III-IV, Petri Kuosmanen MEC-E5003 Fluid Power Basics, 5, III-IV, Heikki Kauranne MEC-E5004 Fluid Power Systems, 5, I-II, Matti Pietola MEC-E5005 Fluid Power Dynamics, 5, I-II, Jyrki Kajaste MEC-E5006 Vehicle Mechatronics, 5, II, Kari Tammi

Do you want to append courses from other schools to your studies?

First, check how to include the courses in your studies (e.g. in elective studies)

Few "study paths" including courses from ELEC and SCI are presented in forthcoming slides

- Background recommendations
- Electrical power transmission emphasis
- Dynamics, control, and systems technology emphasis
- Computer science emphasis

Background recommendations for mechatronics engineers

KON-C2004 Mechatronics Basics 5 cr ELEC-C1230 Säätötekniikka 5 op CSE-A1141 Tietorakenteet ja algoritmit Y, 5 op ELEC-C1320 Robotics 5 cr

Hobbies

Electronics, programming, embedded systems, ...

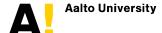


Electrical power transmission emphasis

ELEC-E8112 Hybrid powertrains in vehicles 5 cr

ELEC-E8405 Electric Drives 5 cr

ELEC-E8407 Electromechanics 5 cr



Dynamics, control, and systems technology emphasis

- ELEC-E8001 Embedded Real-Time Systems 5 cr
 Lighter Systems technology approach
- ELEC-C1110 Automaatio- ja systeemitekniikan perusteet
- ELEC-E8103 Modelling, Estimation and Dynamic Systems 5 cr

Heavier Systems technology approach

- ELEC-C1230 Säätötekniikka
- ELEC-E8101 Digital and Optimal Control 5 cr

Computer science emphasis

T-106.5300 Embedded Systems

T-106.5740 Project in Embedded Systems

T-106.5840 Seminar on Embedded Systems

CSE-C3200 Operating Systems