

Course Descriptions CiE

Course code:
EH746

Course title :
Fieldbus Systems

Hours per week:
4h/w

Semester:
1

Number of ECTS Credits allocated:
4

Course contents:

Application fields of Fieldbusses in automation and vehicles.
Fundamentals of communications systems, ISO/OSI reference model
Actual fieldbusses in specs and application for manufacturing industry and use in vehicles.
Seminar on developments in vehicle networking.
Configuration and operation of fieldbusses.

Prerequisites:

Fundamentals in Electrical Engineering

Objective of the course/learning outcome:

Fundamental knowledge of communication principles. Understanding the basics of existing fieldbus solutions in manufacturing and vehicles

Recommended Reading:

(German) Schnell G.: Bussysteme in der Automatisierungstechnik, Vieweg Verlag, Wiesbaden

Teaching methods:

Seminar-style lecture with built-in laboratory hours

Assessment methods:

Written exam (90min)

Language of instruction:

english

Name of lecturer:

Prof. Dr. Egon Sommer

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Link:

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