

Electronics and Measurement Systems 7.5 cr

Elektronik och mätteknik 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at Valid from

2/27/17 **HT2017**

Level G1F

Education level First cycle

Course identifier EEG313

Credits 7.5 cr

Main field of study Electronics

Subject group Electronics

Disciplinary domain Technology 100.0 %

Learning outcomes After completion of the course the student shall be able to

1. state basic components, concepts and methods in analogue electronics and measurement

techniques

2. describe and analyse the underlying technical theory in analogue electronics and

measurement techniques

3. practice experimental activities, particularly within the measurement-technical field.

Course content Elementary measurement techniques

Transistor amplifiers

Generators

Operational amplifiers

Advanced measurement of electrical quantities Elementary opto components, on a general level Measurement of non-electrical quantities

Instruments in systems

Teaching Lectures, calculation exercises and laboratory sessions

Prerequisites Electric Circuits 7.5 cr and Digital Control Theory 7.5 cr or equivalent

Examination Written examination and laboratory sessions

Grade A, B, C, D, E, Fx, F

Other regulations Degree criteria for final grade will be given by course coordinator or examiner latest at the

beginning of the course.

Sustainable environment

Content with sustainable development is not relevant to this course.

Module

0010 Written examination 5 cr Grade: AF

0020 Laboratory Sessions 2.5 cr Grade: UG