



# HÖGSKOLAN I GÄVLE

## Measurement systems 7.5 cr

Mätsystem 7,5 hp

Set by Faculty of Engineering and Sustainable Development

**Version**

**Set at**

**Valid from**

3/11/16

**HT2016**

<b>Level</b>	G1F
<b>Education level</b>	First cycle
<b>Course identifier</b>	EEG305
<b>Credits</b>	7.5 cr
<b>Main field of study</b>	Electronics
<b>Subject group</b>	Electronics
<b>Disciplinary domain</b>	Technology 100.0 %

**Learning outcomes**

After completion of the course the student shall be able to

1. account for analogue interfaces in measurement systems
2. describe and use basic methods of measurement for spectrum and network analysers
3. describe and use the theories and methods included in the course
4. design and program an automatic test system
5. describe standard literature and research results concerning measurement systems.

**Course content**

Automatic test systems  
Modular instruments  
Analogue interfaces  
Spectrum analysis  
Network analysis

**Teaching**

The teaching is carried out as lectures, computer exercises and laboratory sessions. The course includes a major project.

**Prerequisites**

Electronics and Measurement Systems, 7.5 cr, Measurement Systems 7.5 cr and Applied Electronics 7.5 cr or equivalent.

**Examination**

Written examination, laboratory sessions and oral and written report of project assignment

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

**Sustainable environment** It is possible to include content with sustainable development in this course in the future..

**Module**

0010	Oral examination	1.5 cr	Grade: AF
0020	Laboratory Sessions	1.5 cr	Grade: UG
0030	Oral and written report of project assignment	4.5 cr	Grade: AF