



Welcome to Sweden



and



**UNIVERSITY  
OF GÄVLE**



**UNIVERSITY  
OF GÄVLE**

**Program Director**

**Edvard Nordlander**

*Ph.D., Professor*

*Faculty of Engineering*

*and Sustainable Environment*

*Electronics, Technology didactics*

Postal address: SE-801 76 Gävle

Visiting address: Kungsbäcksvägen 47, Gävle

Phone: +46 26 648806

Mobile: +46 70 6421700

Fax: +46 26 648828

E-mail: [enr@hig.se](mailto:enr@hig.se)

[www.hig.se](http://www.hig.se)

Room 99:313

**Make an appointment first!**

The door is locked...

Faculty of Engineering and  
Sustainable Development  
is abbreviated

**ATM**

Department of Electronics,  
Mathematics, and Natural Sciences  
is here abbreviated

**ATM/Electronics**

# **Master Programme in Electronics/Automation (TAEAA)**



# Program layout: Automation

|        | Period 1                                    | Period 2   | Period 3   | Period 4                                 |
|--------|---|--|--|--|
|        | Statistical Signal Processing (EEA005)      | RF Measurement Technology (EEG503)                   | Wireless Sensor Networks (EEA001)  | Robotics (EEA003)                        |
| Year 1 | Advanced level<br>ECTS 7.5                  | Basic level<br>ECTS 7.5                              | Advanced level<br>ECTS 7.5   | Advanced level<br>ECTS 7.5               |
|        | Applied Mechanics II (FYG500)               | Multivariable and Nonlinear Control Systems (EEA004) | Computerized Image Processing and Machine Vision (EEA308)                | Ethics in Technical Development (EEG507) |
|        | Basic level<br>ECTS 7.5                     | Advanced level<br>ECTS 7.5                           | Advanced level<br>ECTS 7.5   | Basic level<br>ECTS 7.5                  |
| Year 2 | Sensors and Measurement Technology (EEA002) | Advanced Digital Control Systems (EEA312)            | Master's Thesis in Electronics (EEA800)<br><br>Advanced level<br>ECTS 30 |  |
|        | Industrial Statistics (IEG501)              | Advanced Projects in Electronics (EEA307)            |  |  |
|        | Basic level<br>ECTS 7.5                     | Advanced level<br>ECTS 7.5                           |  |  |

# Syllabi for the courses and other resources

are presented at the Canvas site  
PRG-MScET

<https://hig.instructure.com/courses/997>

- The login routines are the same as for the UG network: **user name, password**

**Enroll today!**

# Instruction is given in:

- Lectures Not mandatory, **but strongly recommended!**
- Exercises Not mandatory, **but strongly recommended!**
- Lab exercises Mandatory and individually scheduled!
- Projects Mandatory and individually scheduled!
- Seminars Mandatory and individually scheduled!

**Attendance list will be taken!**

Before visiting any instructor at  
ATM/Electronics,  
always make an appointment.  
Either by e-mail or phone.

**Don't just show up!**



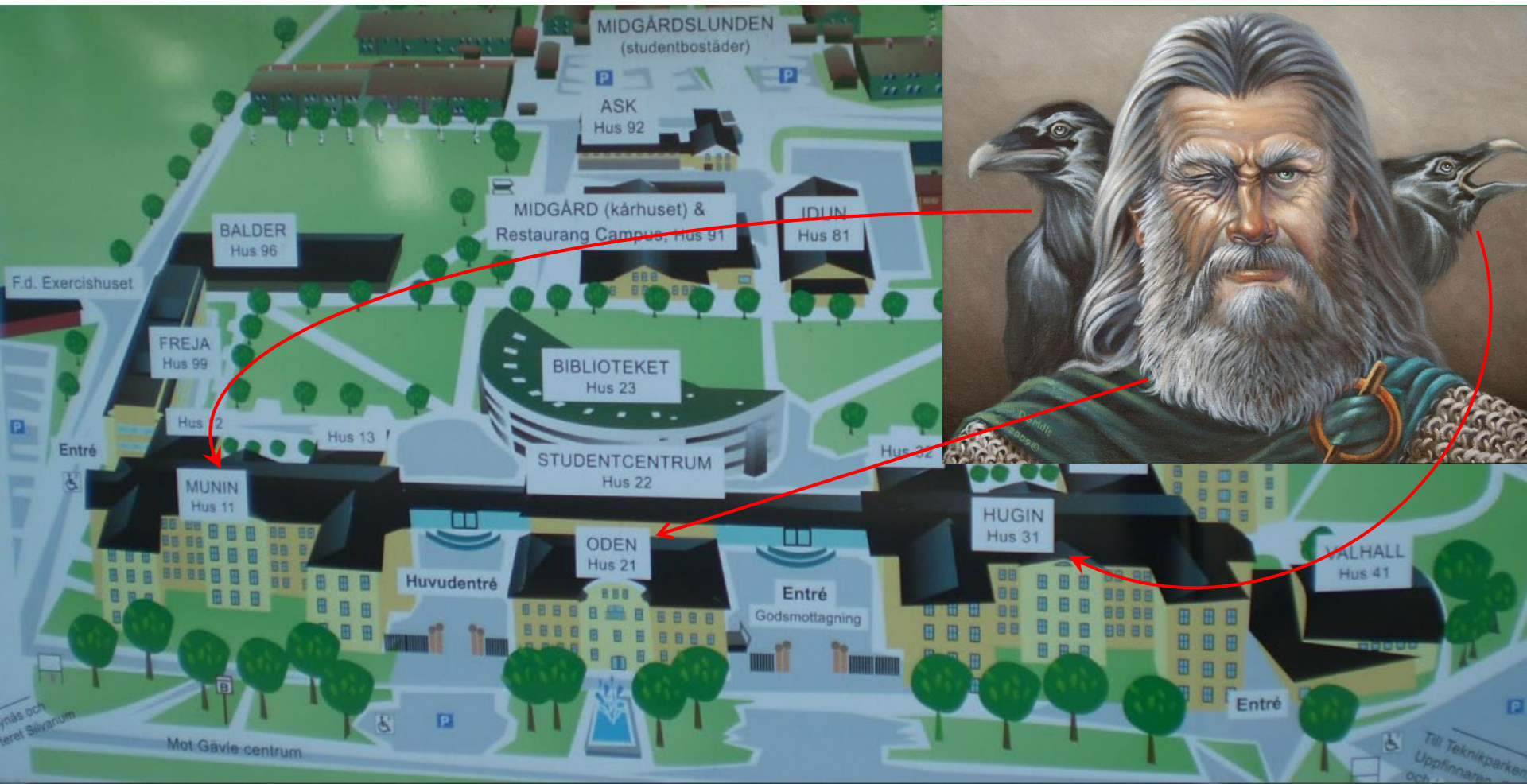
# Respect the instructors and your fellow students

- be **on time** for lectures and other scheduled education
- be quiet during lectures
- keep mobile phones silent
- leave the lecture hall quietly if you have to make or receive phone calls!

# Kungsback



# Kungsback



# **ATM/Electronics**

## **Manual for Master Students**

Sept. 2004



Men and women are treated  
equally.

Diskrimineringslag (2008:567)

Regardless of gender, all  
staff must be respected  
and treated in a polite way.

Respect an appointment,  
**be on time!**

Otherwise you might lose the  
appointment, and leave with  
nothing but bad will.

This also goes for lectures and  
other scheduled education.

ATM faculty office:

Building 12  
ground floor

Department Secretary:

Ms. Elin Knutson, [elnknn@hig.se](mailto:elnknn@hig.se)



# Kungsback





# Respect opening hours

*For the ATM faculty office:*

**Check opening hours at the door  
in building 12**

**Treat the faculty secretaries  
with respect and be polite**

Respect other students as  
equals.

Line up for your turn,  
wait patiently for service.

# Principle of Public Access to Official Documents

”Offentlighetsprincipen” is part of  
the Swedish constitution since 1766

# Extramural Communication

Don't be pushy and annoy people.

Don't spam with e-mails or  
telephone calls.

One mail is enough!

Respect a decision!

# ***UG staff as reference***

Don't give UG staff as  
reference when you apply for  
a thesis assignment  
or in other cases.

**We don't know you  
personally!**

# **ATM/Electronics Laboratories**

## **A million dollar lab**

- 99:415 Specialized Radio Lab
- 99:416 Basic Electronics Lab
- 99:417 Automation Lab
- 12:103 Robotics lab

24/7 availability  
except when booked

# Card-Key to laboratories

Show Card-Key  
and Photo ID/Passport  
if requested



Entries to the labs are logged.

Unauthorized people are not  
allowed in the labs.

There is no reason for  
anybody to enter  
without a card-key.

ATM/Electronics lab equipment  
is used for education and research  
purposes only.

Any other use of the facilities will  
be subject to disciplinary actions or  
submitted to the police.

Smoking is not allowed  
anywhere indoors.

Students affected by alcohol  
or drugs are not allowed  
in the labs.

Keep mobile phones SILENT.

Please leave the lab if you  
have to make or receive  
phone calls!

All students are responsible  
for maintaining laboratories  
clean and properly disposed  
of trash.

Leave the lab in such a shape  
you would like to find it  
yourself next time.

Before leaving the laboratory,  
return equipment to storage.

Remove cables - put in racks.

Clean all work areas.

Don't leave computers online,  
**but don't turn them off.**

Food and beverage are not allowed in the laboratory.

Damage of the instruments may be subject to economic prosecution.

If repair or modification of  
equipment is needed,  
turn to the Lab Instructor of  
the specific course  
or to the Lab Manager.



# Lab Manager:

**Mr. Niklas Rothpfeffer**

**nrr@hig.se**

**070-664 88 29**



Lab Reports  
are due ***not later than***  
14 days from the scheduled  
exercise.

Late reports are normally  
treated next time the course is  
given (*i.e.*, the year after).

Lab reports should be  
typewritten.

Lab reports are sent to  
the lab instructor by e-mail  
or  
submitted through  
the course Canvas site

Lab reports must include:

***Names***

***Abstract***

***Data***

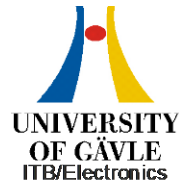
***Analysis***

***Conclusion***

Soldering is permitted only at  
a special workbench.

Always use ESD straps.

The soldering iron is  
connected through a timer.  
Never bypass the timer!



## CONTRACT

I have read the Manual for Master Students about rules and behaviour at the university, in extramural contacts, and in the examination process. I accept to conform to the rules given here to my best ability, and to keep my honour and own reputation as well as the university reputation high and immaculate.

I confirm this statement with my signature:

Place

Date

---

---

Name in print

Signature

---

---

Civic Reg. Number ("personnummer")

---

Send the completed and  
signed contract to the  
Department Secretary:

**Ms. Elin Knutson**  
**elinknn@hig.se**

# ***Rules of examination***

**Non-uniformed Proctors.**  
Follow any instruction given  
by proctors.

Disobedience is reported to the  
examiner, and the student may  
not continue the exam.



Be present in examination hall  
at least 15 minutes before.

Not allowed to leave before  
40 minutes after start.

Also for off-campus  
examination!

All dates and time is  
associated with  
the time in Sweden,  
i.e. GMT +1

Use only tools and other facilities explicitly prescribed in the exam instruction.

If allowed in exam tests:  
Tables, handbooks, etc.,  
must not contain any notes  
except the owner's name.

Calculators must be totally cleared.

Proctors check that no illegitimate aid is used.

Calculators or other devices with communication capabilities, *e.g.*, WLAN or Bluetooth are strictly prohibited.

Only papers offered by the proctors  
may be used.

Single-sided writing.

A new paper for each new  
examination task.

Use pencils – not ball pens or ink

A dictionary between English and any other language is allowed to bring to the exam.

The dictionary must be in printed format, *i.e.*, a physical book, clean from notes.

*Electronic dictionaries are not allowed.*

**It is not allowed to use another student's tools during the examination without consulting the proctors first.**



No communication between  
students allowed during  
examination.

Mobile phones or other  
communication media are  
not allowed.

*Follow instructions from the  
proctors strictly!*

Any attempt of cheating is  
unconditionally submitted to  
**the President of the University  
(Vice-Chancellor/Rector).**

The penalty for cheating  
ranges from a warning  
to suspension up to 6 months.

=>

**Visa problems in the future!**

# Think of your hand writing!

Remember:  
your examiners are not graphologists.

This also goes for graphic material,  
like drawings, figures, diagrams  
etc..!

The solutions to problems must be  
well structured,  
with all given data shown,  
all steps taken well motivated,  
and the answer clearly stated.

When handing in your exam,  
please organize your answers  
in numerical order,  
*i.e.*, problem number 1 first,  
followed by number 2,  
and then number 3,  
and so on.

Mark each page with your  
**identity code.**

You get this code at arrival to  
the examination hall.

The written test is wrapped in  
a special cover handed out  
by the proctors.

A valid photo-ID is requested  
by the proctors.

# The Examination Process

Internet-based registration  
to exams/reexams not later  
than **10 days before** at

<https://www.student.ladok.se/student/app/studentwebb/>

Use your UG network user name and password.



For late registrations:  
Contact the Student Center  
[studentcentrum@hig.se](mailto:studentcentrum@hig.se)

If no place is available, go to the  
examination hall on time.  
After 30 minutes you may do  
your exam/reexam, if seats are  
available.

Please decline your seat if you are not able to take the exam test.

Somebody else may need your seat.

Please turn to  
the Student Center

[studentcentrum@hig.se](mailto:studentcentrum@hig.se)

# ***Off-campus examination***

if *e.g.*

- excessive costs for hotel or other accommodation
- unplanned travel to high cost.

# ***Off-campus examination***

Application form is available for off-campus examination at the program Canvas site.

Application is submitted 3 weeks before the examination date.

# ***Off-campus examination***

The student makes arrangements and pays any extra cost.

An off-campus contact person responsible for correct handling has to be assigned.

# ***Off-campus examination***

Normally in

- another university
- embassy
- consulate
- police station
- similar authority

# ***Questions***

Contact the Student Center

[studentcentrum@hig.se](mailto:studentcentrum@hig.se)

# ***Results of examination***

Normally given at a special occasion by the examiner.

Exam papers not collected then are filed for one year by the Faculty office.



Students may not dispute the decision of the examiner.

**Against the law!**

Only obvious errors,  
like summing errors or similar,  
may be disputed.

Max. 3 weeks to make a decision of the grade.

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

Less than 50% is F/Fail.  
Fx is normally not used.

# Conditions to continue to 2<sup>nd</sup> year

The achieved academic results from the first year are checked in the middle of May.

# Conditions to continue to 2<sup>nd</sup> year

**At least 30 hp (ECTS)**

in May required,

or notice for restarting the 1st year  
will be issued.

Checkpoint in the end of August.

Join our **LinkedIn** community

**University of Gävle**  
**Master of Science in Electronics**  
**Alumni**

<https://www.linkedin.com/groups/3845607>

# Any questions?

Welcome to



**UNIVERSITY  
OF GÄVLE**

and the Master Programme  
in Electronics/Automation  
(TAEAA)