



HÖGSKOLAN I GÄVLE

Thesis Work in Automation Engineering 15 cr

Examensarbete för Automationsingenjörsutbildning 15 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

3/25/15

HT2015

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|----------------------------|--------------------|
| Level | G2E |
| Education level | First cycle |
| Course identifier | EEG800 |
| Credits | 15 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. apply acquired knowledge in an engineering solution to a determined assignment linked to the education
2. use basic knowledge of scientific methodology for implementation of a project or development work
3. find and use relevant course literature and other information in the area and put the own work into context
4. use knowledge and skills acquired in the studies of the relevant subject
5. present and document the results in a systematic, logical and educational way
6. review, evaluate and discuss other thesis work.

Course content

The course consists of an independent design, investigation or development project in electronics or a related subject linked to the study programme in automation engineering. The degree project is an independent assignment in different phases, which includes problem formulation, literature studies, project specific studies, implementation, analysis and documentation.

Teaching

Teaching is mainly given by supervision.

The work is carried out individually or in pairs. In the latter case, the contributions of the

individuals should be clearly stated. The oral presentation is carried out individually. If the degree project is carried out in collaboration with a company or organisation, an external part from this company or organisation may be appointed, in addition to the supervisor from HiG.

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| Prerequisites | Approved courses of at least 120 cr in main subject, mathematics and related subject. Courses important for thesis content shall be approved. |
| Examination | Presentation of degree project, opposition on one thesis and presens at two other thesis seminars |
| Grade | A, B, C, D, E, Fx, F |
| Limitations | To begin the degree project, an application form for degree projects in electronics must be submitted to the subject representative or faculty programme director together with a brief description of the intended work. |
| Other regulations | Criteria for final grades are announced by the co-ordination or examiner at the beginning of the course. |
| Sustainable environment | Content with sustainable development is not relevant to this course. |

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| Module | | | |
| | 0010 Degree Project | 14 cr | Grade: AF |
| | 0020 Opposition on one thesis | 0.5 cr | Grade: UG |
| | 0030 Presens at two other thesis seminars | 0.5 cr | Grade: UG |