



## HÖGSKOLAN I GÄVLE

### Degree Project in Building Engineering 22.5 cr

*Examensarbete för högskoleingenjörsexamen i Byggnadsteknik 22,5 hp*

Set by Faculty of Engineering and Sustainable Development

**Version**

**Set at**

**Valid from**

12/2/21

**HT2022**

|                            |                      |
|----------------------------|----------------------|
| <b>Level</b>               | G2E                  |
| <b>Education level</b>     | First cycle          |
| <b>Course identifier</b>   | BYG801               |
| <b>Credits</b>             | 22.5 cr              |
| <b>Main field of study</b> | Building Engineering |
| <b>Subject group</b>       | Building Technology  |
| <b>Disciplinary domain</b> | Technology 100.0 %   |

**Learning outcomes**

After completion of the course the student shall be able to

1. identify, formulate and plan an individual project by applying scientific and engineering methods and approaches
2. apply the knowledge and skills acquired in the education in an individual project
3. account for current research and development work that concerns the main field of study
4. search, process and analyse relevant information and draw conclusions considering scientific, social and ethical aspects
5. observe different interests and requirements in a way that promotes a sustainable society
6. write a scientific report and orally present the contents
7. review, evaluate and discuss another equal degree project.

**Course content**

The course mainly consists of an individual project that may be carried out individually or in pairs, preferably in close cooperation with companies, organisations or public authorities. The degree project must include; literature search, literature studies, problem formulation, choice of method, planning, implementation, report writing, oral presentation and critical review and attendance on two additional presentations.

**Teaching**

Supervision of the degree project, lectures and seminars

**Prerequisites**

Approved courses of at least 150 credits in The Study Programme in Building Engineering or

|                                |   |
|--------------------------------|---|
|                                | equivalent  |
| <b>Examination</b>             | Project Plan, Report and Seminar  |
| <b>Grade</b>                   | Pass with distinction, Pass and Fail  |
| <b>Other regulations</b>       | Module 0020 Report may begin after approval of the examiner after acceptance of the Module 0010 Project plan. |
|                                | Grading criteria are provided by the examiner or the course coordinator at the beginning of the course.       |
| <b>Sustainable environment</b> | A minor part of the course content deals with sustainable development.  |

|               |                                   |        |           |
|---------------|-----------------------------------|--------|-----------|
| <b>Module</b> |                                   |        |           |
|               | 0010 Project plan                 | 2.5 cr | Grade: UG |
|               | 0020 Report                       | 15 cr  | Grade: UV |
|               | 0030 Seminars                     | 2.5 cr | Grade: UG |
|               | 0040 Analyzing a scientific paper | 2.5 cr | Grade: UG |