



Course syllabus

Företagsförlagd praktik Engineering Internship

VTVG10, 7,5 credits, G2 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED V

Date of Decision: 2023-03-21

General Information

Elective for: IBYI3, IBYV3

Language of instruction: The course will be given in Swedish

Aim

The work experience is to provide the student a basic understanding of the requirements and possibilities of engineering of which the selected organisation represents. The internship is to provide students with an insight into different opportunities and conditions for knowledge application. The work duties are to be sufficiently complex to enable the students to apply previous acquired theoretical knowledge. The relevance of the work duties in relation to the study programme is to be taken into account. The course shall provide students with a comprehensive understanding of the demands and skills involved in professional life which are not of a strictly technical nature but often directly linked to the role of an engineer. During the internship, the student is to work under the terms and conditions that apply at the workplace and is to be assigned specific work duties. During the internship period, the student is also to develop their ability to serve a contributing member of staff.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- demonstrate insight into the different opportunities and conditions for knowledge application,
- demonstrate a general understanding of the demands and skills involved in professional life, which are not of a strictly technical nature but often directly linked to the role of the engineer,

- understand the significance of retrieving and selecting relevant information with regard to issues of technology and engineering, and
- demonstrate insight into the multifaceted role of professional engineers today.

Competences and skills

For a passing grade the student must

- be able to provide an oral and written account of their experiences/acquired knowledge from the course in relation to knowledges the student has required from other courses within his/hers program, and
- be able to describe and analyse the professional role of the engineer

Judgement and approach

For a passing grade the student must

- demonstrate the ability to cooperate with professionally active engineers and other practitioners in the field in order to perform the work duties required at the workplace

Contents

- the professional role of the engineer: participation in work of relevance to engineers within the field,
- the professional role of the engineer: reflection on how experience comes to use in the professional role, and how the need for further knowledge is identified and satisfied,
- project organisation: students reflect on the roles of different types of engineers and how they collaborate,
- industrial organisation: students reflect on collaboration with professionals in fields other than their own, and
- engineering skills: oral and written communication and collaboration with other professional agents

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: For a Pass on the course the student shall: - pass a written reflective report at the end of the internship period; - keep a an approved log for the duration of the course. The log is to be submitted weekly to their supervisor at LTH; - pass an oral presentation with a subsequent discussion during a seminar announced at the department. The student is required to spend 4 weeks, full-time, at the chosen workplace. On completion of the course, the supervisor at the workplace is to verify the student's attendance and active participation at the workplace. The supervisor at LTH is to be notified of sick leave, the same supervisor shall determine whether the student's absence is acceptable in proportion to the course. Throughout the course, the student is to keep a log, and submit these entries and reflections (1-2 pages) at the end of every working week to the supervisor at LTH. The log entries are to be included in the final report. The supervisor shall confirm and give a weekly reply to the log. The following three questions are to be answered every week: 1) What was the most important lesson I have learnt this week, and why do I consider it to be the most important lesson ? 2) What did I do that was good? 3) Is there anything I can develop

til next week? The final report is to include the following (4-5 pages, excluding the log entries): - A presentation of the company - A description of the students role, work duties and problems solved during the internship - A presentation of the different professional groups with whom the student has come into contact - An account of the best learning experience from the internship, what previous studies/courses has been useful and what the student wants to learn more about after completing the internship - A reflective part In the reflective part, the student should answer the following: - Describe your experience from the collaboration with other different professional groups, what was challenging or valuable in the collaborations? - How can you develop your collaborative skills? - Describe how you have experienced using knowledges from previously read courses, what was challenging or valuable? - Do you believe that you have developed/further developed abilities that you can bring in your studies and/or in your future professional life? Describe these and why you think you can benefit from them? The reflective part can be included in the ongoing text where the other issues in the report are addressed.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Admission

The number of participants is limited to: No

Contact and other information

Examinator: Andreas Persson, andreas.persson@tft.lth.se

Teacher: Andreas Persson, andreas.persson@tft.lth.se

Further information: The students arrange for their own internships. If a ID06 card is needed it must be provided by the company where they do their internship.