

UNIVERSITY OF TWENTE.

Bachelor Final Project Civil Engineering

Practical training is essential to an engineering study in order to prepare for future jobs. Only through working experience students are able to link knowledge and skills from their education to real-life situations. Moreover working experience offers insights no book can offer better.

It is for these reasons that a 10 weeks project outside the walls of our university is an obligatory part of the study program of Civil Engineering of the University of Twente, the Netherlands.

Civil Engineering University of Twente Civil Engineering at the University of Twente is a multi-disciplinary study program in which the students not only cover the more traditional aspects of Civil Engineering (mathematics, mechanics, hydrology etc.) but also the more management/process oriented (law, organization, project management, policy, economics).

We start with this multi-disciplinary approach as of the first undergraduate year integrating these aspects in various project courses. The students have to finish their BSc by a 3- or 4-months external project resulting in their BSc-thesis. By doing so after 3 years of study our students are capable of participating as research/project assistant in rather complex projects.

Goals of the assignment The main goals of the assignment are:

- Be able to apply knowledge and skills with respect to planning/management and/or design and/or modelling in practice;
- Be able to work systematically and according to self-made research plan and report adequately;
- Be able to function in the work field of a civil engineer by showing adequate verbal, writing and social-communicative skills


Besides the student gets acquainted with the future work area of civil engineers giving a starting point to his/her future career choices.

Content of the project The student should work individually on an assignment. Premise is that the assignment should be of use to your organisation. For this reason the assignment is usually defined by you as part of a bigger project. Of course the student might be involved in formulating the assignment.

The assignment proposal is discussed with a member of the academic staff of Civil Engineering who will act as internal supervisor. Before starting the project the student must prepare a detailed and documented project plan and discuss this with his supervisor. Only when the project plan is satisfactory the student is allowed to start the project.

The assignment should cover one of the following problem areas:

- Planning/management of (part of) the design , the construction and/or maintenance of a civil object/system
Example: risk analysis of phase X of project Y
- Making/using (mathematical) models in relation to civil objects/systems
Example: modification and use of model X to analyse data on river Y
- Making a functional design for (part of) a civil object/system
Example: analysing user requirements for project X



Supervision by your organisation It is expected that the student will be introduced into the organisation in the same way as a new colleague. One of your staff members should act as the student's external supervisor. The student should have his own workplace. We suppose that the student and his external supervisor will discuss progress at least once a week.

Furthermore we expect that the external supervisor will comment on the concept paper and the student and the external supervisor will have a final meeting to finish the project formally. The external supervisor is asked to fill in an evaluation form that will be sent to him at the end of the project.

Supervision by the university During the project a member of the academic staff who is an expert on the subject of the assignment will supervise the student. This internal supervisor will keep in touch with the student as well as the external supervisor from your organisation to check progress. During an exam meeting at which hopefully the external supervisor wants to be present a grade will be assigned to the execution of the assignment.

Reward and assurance Premise of the University Twente is that the student should not have too many extra costs during the project. We therefore ask your organisation, if possible, to give the student an allowance for local transportation and/or lodging. Insurance is partly covered by the University of Twente. We recommend your organisation to address issues like allowance, insurance, working hours etc. in an agreement with the student and for this we have developed our own contract that can be used.

Paper and confidentiality The student is asked to write a paper of approximately 30 pages on his assignment. At the end of the project the concept of this paper should be finished. Comments by the internal and external supervisor will be incorporated into the final version. The final report will be included in the library of the University of Twente and the purpose of the archive is to give future students an impression of possible assignments but also to show the outside world what our students are involved with and which organizations we work with. If confidential information is included in the report, clear agreements will be made so that this information is not accidentally published.



More information

For more information you can get in contact with:

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