



University of Twente

Faculty of Engineering Technology

Information sheet for exchange partners;
a faculty addendum to the "2020-2021 University of Twente_Institutional data sheet.pdf"

Faculty data sheet	2
Faculty exchange programmes	3
Research in the faculty	5
Placements / internships	6
Contact information	7

Rev.: Dec 2020

Faculty data sheet

Faculty data	Faculty of Engineering Technology Building: Horst (nr. 20) P.O. Box 217 7500 AE Enschede The Netherlands www.utwente.nl/et
Disciplines	civil engineering industrial design engineering mechanical engineering sustainable energy
Educational programmes	www.utwente.nl/en/et/education/ civil engineering discipline: - Civil Engineering (BSc) - Civil Engineering and Management (MSc) - Construction Management and Engineering (MSc) industrial design engineering discipline: - Industrial Design Engineering (BSc) - Industrial Design Engineering (MSc) mechanical engineering discipline: - Mechanical Engineering (BSc) - Mechanical Engineering (MSc) sustainable energy discipline: - Sustainable Energy Technology (MSc)
ISCED 2013 codes (also called: Subject codes)	civil engineering discipline: 071, 0710, 0730, 0732 industrial design engineering discipline: 071, 0710, 0212 mechanical engineering discipline: 071, 0710, 0715 sustainable energy discipline: 071, 0710, 0712
Student Mobility	www.utwente.nl/et/student-mobility/
Exchange programmes	www.utwente.nl/en/education/exchange-students/
Contact address	Exchange-ET@utwente.nl
Departmental Erasmus / Exchange Coordinator	Ms. Dr.ir. Dorien van de Belt people.utwente.nl/d.vandebelt
Coordinator International Affairs	Ms. Marijke Stehouwer, MA people.utwente.nl/m.a.stehouwer
International student support officer	Ms. Elke Vine-Dinius / Ms. Astrid Oppers - Van den berg people.utwente.nl/e.dinius / people.utwente.nl/a.j.vandenberg

Faculty exchange programmes

The characteristics of the exchange programmes offered by the **Faculty of Engineering Technology** are:

- Students currently enrolled in a civil engineering, industrial design engineering or a mechanical engineering programme, should choose module/courses within the equivalent programme in the Faculty of Engineering Technology or within the selection of so-called HTHT modules¹. The choice per discipline can be found via www.utwente.nl/en/education/exchange-students/.
- Students currently enrolled in a different educational programme which in content has overlap with one or more of our programmes, might also be accepted. Note that the prior knowledge of the student should match the required prior knowledge for the chosen courses/modules. The student is kindly requested to indicate the fact that (s)he has this prior knowledge in the 'course selection' section of the application form.
- *Students who will be enrolled in a BSc (or equivalent) programme in their home university during the exchange semester, have to choose BSc modules.* These modules can be part of (one of) the regular programmes of the faculty, or one or two of the above mentioned HTHT modules.
- *Each module* is equivalent to 15 ECTS credits. Although each module consists of several 'parts' with each their own examination (called 'study unit'), it is not possible to choose only a part of a module. However, if an exchange student fails a part of the module, (s)he will still receive the marks of the parts which are successfully finished on his/her Transcript of Records.
- Our BSc programme in Mechanical Engineering is participating in the "ECIU Minor programme". For more information about this programme please see www.eciu.org/for-students/minor-programmes. This information is also included in www.utwente.nl/en/education/exchange-students/.
- *Students who will be enrolled in an MSc (or equivalent) programme in their home university during the exchange semester, can choose MSc courses as well as BSc modules.*
- *Courses* are in general equivalent to 5 ECTS credits. We are currently extending our selection of ESPs (Exchange Study Packages) on MSc level, worth 30 ECTS credits each. Such ESP contains a coherent set of courses in one of the specialisations of our MSc programmes. This will make it easier to choose courses for students who are interested in one of our focus research areas (see further on in this document). Quite a number of those ESP's can be found via www.utwente.nl/en/education/exchange-students/. Alternative combinations of courses can be composed by the student using the curricula information on the respective websites, accessible via www.utwente.nl/en/et/education/.
- It is allowed to choose modules or courses of other educational programmes which are not included in the exchange agreement, but per semester for a maximum of 1 module (BSc) or 2 courses (MSc) only. Acceptance, however, depends on the regulations of the

¹ High Tech Human Touch modules.

exam committee of the concerned educational programme. Assessment of applications including courses at different faculties will therefore take more time. In general it is not advisable to choose courses from different programmes, due to an increasing chance on coinciding lectures.

- All modules and courses which can be chosen by exchange students are part of the regular UT programmes and therefore taught in English.
- In general each course offers one re-sit possibility. *Re-sits of written exams are quite often in the weeks after the semester.* The student might have to keep this in mind. The examination weeks can all be found in the academic calendar (www.utwente.nl/en/ces/planning-schedules/).
- all educational programmes aim to offer at least some 'on site' education, if possible. Therefore the faculty does not offer purely online programmes.

Additional hints/tips, in order to make the nomination and application process as efficient as possible

APPLICATION

- During the application process, students currently enrolled in an MSc (or equivalent) programme have to upload *both* their BSc and their MSc Transcript of Records (ToR).
- The ToR has to be in *English* (or both the native language and English)
- The ToR has to contain the *name* and the *level* of the educational programme concerned (BSc, MSc, BEng, ...)
- If the educational system of the home university is different from the 'Bologna' educational system², the ToR or an attachment to it will have to explain the relation between the home system and the 'Bologna' system.
- if a student is to be nominated for a placement in one of our research groups (see p. 5 and further), then please make sure that the student will be nominated for one of the disciplines of the Faculty (see p. 2). Select the educational programme (study field) closest to the core business of the research group.

² https://en.wikipedia.org/wiki/Bachelor%27s_master%27s_doctorate_system

Research in the faculty

The research departments in our faculty do not offer a list of available assignments for incoming placement students. However, some departments or chairs within departments might have a list on their website with assignments for bachelor or master thesis assignments which could be (partly) done by incoming placement students. Quite often, however, departments can offer assignments to students within the framework of the ongoing research. Obviously the background of the student plays an important role in the match making. The research departments and the main focus areas within the departments are listed in the table below. On the next page an overview is given regarding the actions a student should take in order to find a suitable assignment.

Research departments / chairs:	entrance portal: <u>www.utwente.nl/en/et/research/departments-research-chairs/</u>
Department of Biomechanical Engineering	<u>www.utwente.nl/en/et/be/</u> Medical application areas: rehabilitation, orthopaedics and neurology Research themes: <ul style="list-style-type: none"> - Tissue mechanics - Neural mechanics - Movement mechanics - Surgical robotics - Neuro-mechanical modelling for man-machine interaction.
Department of Civil Engineering	<u>www.utwente.nl/en/et/ce/</u> Research focus: <ul style="list-style-type: none"> - Sustainable use of freshwater resources; - Marine and riverine flood risk management; - Smart, green and integrated transport; - Construction management
Department of Design, Production & Management	<u>www.utwente.nl/en/et/dpm/</u> Research focus: <ul style="list-style-type: none"> - Development of methods and tools for scenario-based, user-oriented product design against the background of the requirements and constraints of the entire product life cycle; - Manufacturing facility and warehousing design; - Understanding and improving the design process irrespective of the product.
Department of Mechanics of Solids, Surfaces and Systems	<u>www.utwente.nl/en/et/ms3/</u> Research themes: <ul style="list-style-type: none"> - Material Behaviour; - System Behaviour; - Robust Optimisation Mission: Manufacturing the Future

Department of Thermal and Fluid Engineering	www.utwente.nl/en/et/tfe/ Research chairs: <ul style="list-style-type: none"> - Multiscale mechanics (study of systems in which physical and mechanical processes with distinct characteristic scales (large versus small, slow versus fast, localised versus collective) are equally important – and interacting) - Engineering Fluid Dynamics (research focus: rotating flow machines, multiphase flow and wave phenomena, computational aerodynamic and biophysical fluid dynamics) - Thermal Engineering (industrial applications of thermodynamics, fluid mechanics and heat and mass transport; efficient use of energy, sustainable energy and the minimization of environmental impact of our future energy systems)
---------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Placements / internships

	Placement in combination with course exchange	Placement only
Student is interested in a placement in a company	This might be possible. The student does have to organise this him/her self, in the same way as the regular students have to do. The faculty supports the student with information on companies and finding a UT supervisor to assess the internship, but the student remains responsible for the whole application procedure.	no support
Student is interested in a placement in a research group	<p>In general this is possible and is called a ‘research assignment’. It is advisable to find a supervisor before applying for an exchange semester:</p> <p>The student will first have to find a research group and a supervisor within our faculty. The most obvious route is to check out the research pages of the faculty, find a contact person in a group and send him/her a request by email including a CV (curriculum vitae), ToR (transcript of records) and LoM (letter of motivation). The LoM should include information about the student’s intentions: to apply for a placement only, or for a combination of courses and a placement.</p> <p>Only after the student has received a positive response from his/her contact in the research group, (s)he can apply as described in www.utwente.nl/en/education/exchange-students/application-procedure/.</p> <p>Note that acceptance by one of the research staff members does not automatically mean that the student is accepted for a placement at our university. Acceptance also depends on the nationality (which determines the necessity of a visa or a working permit), the desired time duration, the fact if we do or do not have an agreement with the home university and if the placement is combined with course work. Due to complex immigration rules it is in general not possible to inform on forehand about the outcome of this administrative part of the assessment.</p>	This might be possible.

Contact information

The information in this booklet / document is a brief summary of the faculty information included in the webpage www.utwente.nl/en/education/exchange-students/ and subsequent pages. Do note that the webpages contain a lot more information than given in this document.

In case there is anything else you would need to know and/or is missing in this fact sheet or on the webpages, please contact:

Departmental Exchange Coordinator	Ms. Dr.ir. Dorien van de Belt people.utwente.nl/d.vandebelt
Contact address for students	Exchange-ET@utwente.nl