

EDUCATIONAL SCIENCE AND TECHNOLOGY (MSc)

NAME OF EDUCATION	EDUCATIONAL SCIENCE AND TECHNOLOGY (MSC)
DEGREE	MASTER OF SCIENCE (MSc)
ECTS CREDITS	60
PROGRAMME DURATION	1 YEAR
DOMAINS	EDUCATIONAL DESIGN AND EFFECTIVENESS (EDE) HUMAN RESOURCE DEVELOPMENT (HRD)
CROHO-CODE	60023, NVAO ACCREDITED
MODE OF STUDY	FULL-TIME AND PART-TIME
LANGUAGE OF INSTRUCTION	ENGLISH
START DATE	SEPTEMBER AND FEBRUARY
TUITION FEES	€1,713 PER YEAR (EU/EEA-NATIONALITIES)* € 10,120 PER YEAR (NON-EU/EEA-NATIONALITIES)*
MINIMAL IELTS / TOEFL-IBT SCORE	6.5 / 90
SPECIAL SCHOLARSHIPS	WWW.UTWENTE.NL/MASTER/INTERNATIONAL/FEESFUNDING/
MORE INFORMATION	WWW.UTWENTE.NL/MASTER/EST

* Note that this tuition fee is the tuition fee for the academic year 2011/2012.
The tuition fee for the academic year 2012/2013 can be higher.
For more information see: www.utwente.nl/so/studentservices/en.

THE MSC PROGRAMME EDUCATIONAL SCIENCE AND TECHNOLOGY (EST) IS THE PERFECT ACADEMIC PROGRAMME FOR THOSE WHO AIM AT A CAREER AS A PROFESSIONAL WITH A SOLID SCIENTIFIC BACKGROUND IN DESIGNING AND EVALUATING EDUCATION AND TRAINING. IT IS MEANT FOR ANYONE FASCINATED BY EDUCATIONAL AND TRAINING PROCESSES BUT NOT INTENDING TO BECOME A CLASSROOM TEACHER OR TRAINER. WHAT DOES THE IDEAL LEARNING ENVIRONMENT LOOK LIKE? WHAT TEACHING RESOURCES DOES IT REQUIRE? HOW CAN TECHNOLOGY BE USED IN EDUCATION AND TRAINING? WHAT IS THE BEST WAY TO DEVELOP PEOPLE TO THEIR FULL POTENTIAL? HOW DO MEMBERS OF AN ORGANISATION LEARN FROM EACH OTHER? AFTER COMPLETING THIS PROGRAMME, GRADUATES WILL BE ABLE TO ANSWER THESE QUESTIONS AND MORE.

THE PROGRAMME

The 1 year (60 European Credits), fully in English taught, master's degree programme Educational Science and Technology at the University of Twente stands out from other education-related degree programmes in the Netherlands for its design-based and evaluation-based approach. The programme teaches how to analyse educational and training problems in a systematic way and how to design good workable solutions for those problems. The programme broadens and deepens a student's research skills. Students learn how to conduct both qualitative and quantitative research, and how to report in scientific articles. Students put all these competences into practice during their individual graduation project. The programme leads to a Master of Science (MSc) degree in Educational Science and Technology.

THE CURRICULUM

The 1-year programme is divided into two semesters. The programme consists of courses and a graduation project. In the first part of their programme, students mainly take courses (30 EC's). In the second part of their programme students primarily work on their graduation

project (30 EC's) (possibly –depending on their elective courses- in conjunction with some courses).The final project addresses a real-life educational or training problem or research question. Students are challenged to present a solution to this problem or to answer the research question in a scientific and systematic way by studying literature, collecting data and producing sound analyses.

Throughout the programme students are subject to a continuous attaining of insights and competences via a systematic coupling of research-based theoretical knowledge and existing and future professional practice.

The programme embraces two domains:

- 1 Educational Design and Effectiveness (EDE),
- 2 Human Resource Development (HRD).

THE COURSES

At the start of the programme, all students take a 10 EC's core course. This course creates a common knowledge base on both the domain of education and training as well as on scientific design and research methods and techniques.

On the basis of this core course, students then choose four electives (each 5 EC's) from the set of in total twelve elective courses: (6 from the HRD domain and 6 from the regular education domain). Anticipating to their individual needs and ambitions (and taking into account the actual curricular possibilities and limitations), students choose from the offered elective courses in the HRD context or the regular education context.

The elective courses in the domain of HRD will deal with topics like:

- Workplace learning
- Facilitating learning-on-the-job
- Leadership and organisational change
- Implementation of organisational change
- Research within organisations
- Designing and evaluating effective HRD interventions

The electives in the domain of learning in regular educational settings address issues like:

- Curriculum innovation and implementation
- Learning through ICT
- Assessment of and for learning
- Teacher learning and development
- Research in schools
- Designing and evaluating in an educational context

It is obvious that, depending of on-going domain-specific developments, the actual topics of the electives may change regularly.

The curriculum outline below illustrates the options for composing individual study trajectories, both for full-time and part-time students.

	Semester 1		Semester 2	
	Quartile 1	Quartile 2	Quartile 3	Quartile 4
Day 1	Core course (10 EC)	Elective 2 HRD (5 EC) Elective 2 EDE (5 EC)	Elective 4 HRD (5 EC) Elective 4 EDE (5 EC)	Elective 5 HRD (5 EC) Elective 5 EDE (5 EC)
Day 2	Elective 1 HRD (5 EC) Elective 1 EDE (5 EC)	Elective 3 HRD (5 EC) Elective 3 EDE (5 EC)	Core course (10 EC)	Elective 6 HRD (5 EC) Elective 6 EDE (5 EC)
	Final Project (30 EC)			

PART-TIME STUDENTS

For those students who study the EST programme in a part-time mode (and thus spanning a two years period) it is arranged that courses are scheduled on 2 fixed days per week. This will enable them as good as possible to combine their studies with their job. Part-time students are supposed to complete all coursework in year #1 and to devote their time on the graduation project in year #2.

CAREER PROSPECTS

The graduate from the EST programme is a competent researcher who is able to identify those factors which determine the quality of education and training. He or she knows which conditions are required to foster educational and training innovations. The graduate is an expert in analysing questions and problems from the educational and training practice, and he or she subsequently is able to design, develop, implement, and evaluate appropriate solutions to these problems, aiming at improved learning processes and enriched academic achievement. We therefore call our graduates: *scientist practitioners*.

In other words, graduates from the EST programme are first-class, academic, educational and training: (1) designers, (2) policy makers, and (3) advisors.

As a graduate from the EST programme, the student has a promising and varied future ahead. Our graduates work in a wide range of organisations, from government, ministries, publishers and educational support services to universities, higher education institutes and multinational companies. A number of graduates have started their own education and training consultancy.

Some examples:

- Consultant in major curriculum innovation projects
 - Designer of multimedia products for companies in the field of e-learning.
 - Board advisor for corporate learning policies
 - Designer and evaluator of testing programmes
 - Quality assurance staff member in a school
 - Policy maker in an educational institute
 - Staff member in a corporate personnel department
- In addition, and last but not least, our graduates may pursue their career as scientific researchers.

ADMISSION

The master's degree programme EST is a programme on academic level. This means that we apply a set of entry requirements with respect to both the specific domain (educational science and technology) as well as to generic scientific competences, specifically on design and research methods and techniques, and academic reasoning and writing.

If you are not entitled to enrol directly and unconditionally in the MSc programme, you may consider taking our pre-master's programme, which is for a maximum of one year (60 EC's). Your actual pre-master's trajectory depends on your personal prior knowledge and skills, to be assessed by the EST programme's Admission Committee on individual base. The pre-master's programme prepares students optimally for a successful participation in the MSc degree programme EST. The pre-master's programme (like the MSc EST programme) is taught in English, and you may enrol either in September or February.

More information on this pre-master's programme is available via our (MSc EST) website:
www.utwente.nl/master/est/

APPLICATION

If you think that Educational Science and Technology is the programme for you, please complete the online application form and submit the requested documents on our website: www.utwente.nl/master/est/.

LIKE TO KNOW MORE?

In case of additional questions, please do not hesitate to contact us:

E-mail: est@gw.utwente.nl

Web: www.utwente.nl/master/est/

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