

Emerging Technology Design

The ETD track is underpinned by technology-focused courses linked to specialisation areas (colours below) aimed at giving each student a unique study programme to support their final master's assignment and envisaged career as an industrial design engineer. You will choose 15 EC/module, for 5 modules. Students starting in September will start with quartile 1 courses.

Students entering the master's programme in February, will start their studies with quartile 3 courses. For all

students, the rules are the same – next to 2 compulsory courses (* below), you will choose at least 20 EC from a specialisation theme, 25 EC from any IDE courses and up to 20 EC in electives, finalising your Master with a 45 EC assignment, typically at, or with a company. It is even possible to do your own research in the form of a capita selecta or choose a course from a different master's programme. In the end, each IDE student will receive the same diploma, independent of which track you choose.

September		February	
Quartile 1	Quartile 2	Quartile 3	Quartile 4
Composites	Plastic and Elastomer Engineering	Elastomer Science & Engineering	Topics in Human Anatomy & Sports Physiology
Design, Production & Materials	Robotics for Medical Applications	Rheology and Processing of Thermoplastics	Biomechanics
Integrative Design of Biomedical Products	Frontiers in Personal Health Technology	Human Movement Control	Design of Surfaces C.S.
Advanced Control Engineering	Electric Vehicle System Design	Biomechanics of Human Movement	Nature Inspired Design
Technology of Health	User-Centered Design of New Media	Development of Artificial Internal Organs	Smart Environments Integration Project
3D printing: processes & use	Surface Engineering for Look and Feel*	Durability of Consumer Products	Designing Interactive Experiences
Systems Engineering	Product Life Cycle	Design for Additive Manufacturing	Reinforcement Learning in Engineering
Engineering Acoustics	Empirical Methods for Designers	Design Principles for Precision Mechanisms 2	System & Control Engineering 1
Governing Product Development	Intelligent Transport Systems Design & Evaluation	Introduction Finite Element Methods	Dynamics 2
Maintenance Engineering & Management		Experimental Methods	Lean Six Sigma Green Belt
Sources of Innovation*		Intellectual Property in Product Development	Capita Selecta (possible in all quartiles)
		Design for Maintenance Operations	Elective from other programme (possible in all quartiles)

Specialisations (within ETD)

ADVANCED MATERIAL ENGINEERING

PRODUCT AND SURFACES

BIOMEDICAL PRODUCT DESIGN

SMART ENVIRONMENTS AND VIRTUAL REALITY

SUSTAINABLE TECHNOLOGY PRODUCT DEVELOPMENT

STRUCTURAL DYNAMICS, ACOUSTICS AND CONTROL