Curriculum High-Tech Engineering 2019-2020

First year (60 EC) *

ME Obligatory core courses (11 EC)
Physics for Mechanical Engineers (4 EC)
Measurement Technology (3 EC)
Nonlinear Mechanics (4 EC)
ME Recommended courses (≥ 5 EC obligatory)
Advanced Fluid Dynamics (5 EC)
Advanced Heat Transfer (3 EC)
Control System Design (3 EC)
Drive & Energy Systems (3EC)
Intelligent Vehicles (4 EC)
ME Recommended social courses (3-6 EC obligatory)
Philosophy of Engineering (3 EC)**

ME-HTE Core courses I (3 EC)
Intro lab PME (2 EC)
Student colloquia and events PME (1 EC)
ME-HTE Core courses II (19-27 EC) choose 5 out of 7
Engineering Dynamics (4 EC)
Optics (4 EC)
Mechatronic System Design (4 EC)
Precision Mechanism Design (4 EC)
Fundamentals of Mechanical Analysis (4 EC)
Micro- & Nanosystems Design & Fabrication, including MEMS Lab (4 EC)
Engineering Optimization: Concept & Applications (3 EC)

ME-HTE Recommended electives per research focus (6-11 EC)	
Engineering Dynamics (ED)	Nonlinear Dynamics (4 EC)
	Experimental Dynamics (3 EC)
Mechatronics System Design (MSD)	Predictive Modelling (3 EC)
	Compliant Mechanisms (4 EC)
Opto-Mechatronics (OM)	Opto-Mechatronics (4 EC)
	Technical & Micro Optical Systems (4 EC)
Micro Nano Engineering (MNE)	Intro to Nanoscience and Technology (3 EC)
	Manufacture for the micro- nano scale (3 EC)
Engineering Mechanics (EM)	Computational Methods (3 EC)
	Stability of Thin-Walled Structures (4 EC)
	Advanced Finite Elements (4 EC)
Other electives (5-13 EC)	

Second year (60 EC)

Internship/ First Project (15 EC)
Literature survey (10 EC)
Master thesis project (35 EC)

**tentative, minor changes possible, ** or other, see ME Obligatory, studiegids.tudelft.nl*