|  |  |  |  |
| --- | --- | --- | --- |
| Student name |  | Focus HTE: |  |
| Student number |  | e-mail |  |

**COURSES** ME Core courses (Complete to a minimum of 5)

|  |  |  |
| --- | --- | --- |
| Course code | Course name | EC |
| ME46006 | Physics for Mechanical Engineers\* | 4 |
| ME46055 | Engineering Dynamics\* | 4 |
| ME46085 | Mechatronic System Design\* | 4 |
| ME46000 | Nonlinear Mechancis | 4 |
| ME46007 | Measurement Technology | 3 |
| SC42001 | Control System Design | 5 |
| ME41055 | Multibody Dynamics B | 4 |
| ME44210 | Drive & Energy Systems | 3 |
| ME41106 | Intelligent Vehicles | 5 |
| ME45001 | Advanced Heat Transfer | 4 |
| ME45042 | Advanced Fluid Dynamics | 5 |
| **Total** | |  |

*\*obligatory for ME\_HTE*

**COURSES** ME Non-Technical course (select a course 3-6 EC) For options see studiegids.tudelft.nl

|  |  |  |
| --- | --- | --- |
| Course code | Course name | EC |
|  |  |  |
| **Total** | |  |

**COURSES** ME-HTE Obligatory courses

|  |  |  |
| --- | --- | --- |
| Course code | Course name | EC |
| ME46110 | Intro lab PME | 2 |
| **Total** | | **2** |

**COURSES** ME-HTE Track courses I (choose at least 3)

|  |  |  |
| --- | --- | --- |
| Course code | Course name (tick boxes of choice) | EC |
| ME46015 | Precision Mechanism Design | 4 |
| ME46020 | Micro- & Nanosystems Design & Fabrication, incl. MEMS Lab. | 4 |
| ME46060 | Engineering Optimization: Concept & Applications | 3 |
| ME46070 | Fundamentals of Mechanical Analysis | 4 |
| ME46300 | Optics | 4 |
| **Total** | |  |

**COURSES** ME\_HTE Track courses II (choose at least 3)

|  |  |  |
| --- | --- | --- |
| Course code | Course name (tick boxes of choice) | EC |
| ME46115 | Compliant Mechanisms | 4 |
| ME46310 | Opto-Mechatronics | 4 |
| MS43325 | Application of Materials in High-Tech Engineering | 3 |
| ME46095 | Multiphysics Modelling using COMSOL | 4 |
| ME46035 | Stability of Thin-Walled Structures | 4 |
| ME46050 | Advanced Finite Elements Methods | 4 |
| ME46010 | Intro to Nanoscience | 3 |
| ME46065 | Thin Film Materials | 3 |
| ME46041 | Experimental Dynamics | 4 |
| ME46120 | Predictive Modelling | 4 |
| ME46072 | Nonlinear Dynamics | 4 |
| ME46125 | Micro and Nanofabrication for Cell Biology and Tissue Engineering | 3 |
| ME46025 | Manufacturing for the Micro and Nano Scale | 3 |
| **Total** | |  |

**COURSES** ME-HTE Elective courses

|  |  |  |
| --- | --- | --- |
| Course code | Course name | EC |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total** | |  |

**ME-HTE Electives 2nd YEAR (15 EC)**

|  |  |  |
| --- | --- | --- |
| Code | Assignment name | EC |
| ME56015P\*\* | ME-HTE Midterm review | 15 |
| ME56015S\*\* | ME-HTE Internship | 15 |
| **Total** | | **15** |

*\*\*students choose either ME56015S or ME56015P at the end of the first year*

**ME-HTE GRADUATION PROJECT (45 EC)**

|  |  |  |
| --- | --- | --- |
| Code | Course name | EC |
| ME56010-22 | ME-HTE Literature Research & Project proposal | 10 |
| ME56035 | ME-HTE MSc Thesis | 35 |
|  | **Total** | 45 |

|  |  |
| --- | --- |
| **Total of complete program** |  |

EC = European Credit. 1 EC = 28 hours study load

|  |  |  |  |
| --- | --- | --- | --- |
| Name of Professor: |  | Date: |  |

Signature Professor: Signature student: Examination board:

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last updated 14/9/2022