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

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

|  |  |  |
| --- | --- | --- |
| Course code | Course name | EC |
| [x]  ME46006 | Physics for Mechanical Engineers\* | 4 |
| [x]  ME46055 | Engineering Dynamics\* | 4 |
| [x]  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:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

last updated 14/9/2022