|  |  |  |  |
| --- | --- | --- | --- |
| Student name: |       | Track: | **MULTI-MACHINE ENGINEERING** |
| Student number: |       |  |  |

 This form can be used to add courses from an external institution, these will only be visible in Osiris after taking the courses and the results being

 processed. No further action is needed, simply a bit of patience.

## ME CORE COURSES OBLIGATORY FOR TRACK MME

|  |  |  |
| --- | --- | --- |
| Course code | Course name | EC |
| ME44210 | Drive & Energy Systems | 3 |
| ME46000 | Nonlinear Mechanics | 4 |
| ME46007 | Measurement Technology | 3 |
| SC42001 | Control System Design | 5 |
|  | Total | **15** |

## MME COURSES OBLIGATORY FOR TRACK MME

|  |  |  |
| --- | --- | --- |
| Course code | Course name | EC |
| ME44101 | Dynamics and Interaction of Material and Equipment  | 4 |
| ME44106 | Structural Design with FEM | 4 |
| ME44110 | Integration Project Multi-Machine Systems | 5 |
| ME44200 | Operations & Maintenance | 3 |
| ME44206 | Quantitative Methods for Logistics | 5 |
| ME44300 | Multi-Machine Coordination for Logistics | 3 |
| ME44305 | System Analysis and Simulation | 5 |
|  | Total | **29** |

## ME CORE COURSES Recommended for the MSc Mechanical Engineering (select at least one course)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Course code | Course name | EC |
| [ ]  | me41055 | Multibody Dynamics B | 2 |
| [ ]  | me41106 | Intelligent Vehicles 3ME | 5 |
| [ ]  | me45001 | Advanced Heat Transfer | 4 |
| [ ]  | me45042 | Advanced Fluid Dynamics | 5 |
| [ ]  | me46006 | Physics for Mechanical Engineers | 4 |
| [ ]  | me46055 | Engineering Dynamics | 4 |
| [ ]  | me46085 | Mechatronic System Design | 4 |
|  |  | **Total** |  |

## NON-TECHNICAL COURSES select min 3 ECTS and no more than 6 ECTS

|  |  |  |  |
| --- | --- | --- | --- |
|  | Course code | Course name | EC |
| [ ]  | RO47009 | Robot & Society | 4 |
| [ ]  | TBM022A | Technology, Innovation and Ethics for Companies | 5 |
| [ ]  | TPM013A | Environmental Ethics | 5 |
| [ ]  | TPM015B | Ethics of AI | 3 |
| [ ]  | TPM024A | Methods for Risk Analysis and Management | 5 |
| [ ]  | TPM404B | Technology Entrepreneurship and Internationalization | 5 |
| [ ]  | TPM416A | Turning Technology into Business | 6 |
| [ ]  | TPM420A | Ready to Start-up | 6 |
| [ ]  | WM0320TU | Ethics and Engineering | 3 |
| [ ]  | WM0329TU | Ethics and Engineering | 6 |
| [ ]  | WM0349WB | Philosophy of Engineering Science and Design | 3 |
| [ ]  | WM0353TU | Climate Ethics | 3 |
| [ ]  | WM0375TU | Ethics of Technological Risks | 3 |
| [ ]  | WM0801TU | Introduction to Safety Science | 3 |
| [ ]  | WM1301TU | Ethics of Transportation | 3 |
| [ ]  | WM1302TU | Ethics of Transportation | 5 |
| [ ]  | WM1401TU | Ethics of Healthcare Technologies | 3 |
| [ ]  | WM1402TU | Ethics of Healthcare Technologies | 5 |
|  |  | Total |    |

**ELECTIVE COURSES** select from MME recommended and/or fill in other MSc courses from studyguide

|  |  |  |  |
| --- | --- | --- | --- |
|  | Course code | Course name | EC |
| [ ]  | ME44115 | Discrete Element Method (DEM) Simulation | 4 |
| [ ]  | ME44125 | Reliability and Maintenance of Transport Equipment | 3 |
| [ ]  | ME44311 | Advanced Operations and Production Management | 5 |
| [ ]  | ME44312 | Machine Learning for Transport and Multi-Machine Systems | 3 |
| [ ]  | MT44000 | Mechatronics in MT | 5 |
| [ ]  |       |       |       |
| [ ]  |       |       |       |
| [ ]  |       |       |       |
| [ ]  |       |       |       |
| [ ]  |       |       |       |
| [ ]  |       |       |       |
|  |  | Total |  |

##

## ASSIGNMENTS/2nd YEAR MSc-project, Traineeship, other projects (select research assignment or JIP)

|  |  |  |
| --- | --- | --- |
| Code | course name | EC |
| ME54010 | ME-MME Literature Assignment | 10 |
| [ ]  ME54015 | ME-MME Research Assignment | 15 |
| [ ]  TUD4040 | Joint Interdisciplinary Project |
| ME54035 | ME-MME MSC Project | 35 |
|  | Total | **60** |
| Total of complete program (≥ 120 EC) |  |  |

|  |  |  |
| --- | --- | --- |
| Signature Master Coordinator:M.B. Duinkerken | Signature student: | (on behalf of) Examination board: |
| Date:       | Date:       |  |