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| EWEM Erasmus Mundus |  | http://www.vgsd.nl/files/nieuws/6470.jpg | **Master Track Study Plan****Offshore Engineering****European Wind Energy Master (EWEM)** |

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| --- | --- |
| Name: |       |
| Student number TU Delft: |       |
| Student number NTNU: |       (leave open if unknown) |
| Student e-mail |       |

**MSc EWEM-OE: Semester 1 (DTU)**

**Compulsory courses (25 ECTS)**

|  |  |  |
| --- | --- | --- |
| **Code** | **Course** | **Credits** |
| 41111 (DTU)  | Hydrodynamics 2  | 5 |
| 46300 (DTU) | Wind Turbine Technology and Aerodynamics | 10 |
| 46211 (DTU) | Offshore Wind Energy  | 10 |

**Elective courses:** choose one out of three(5 ECTS)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Code** | **Course** | **Credits** |
| [ ]  | 46100 (DTU) | Introduction to micrometeorology for wind energy | 5 |
| [ ]  | 46500 (DTU) | Probabilistic methods in wind energy | 5 |
| [ ]  | 11464 (DTU) | Advanced Soil Mechanics | 5 |

**MSc EWEM-OE: Semester 2 (TU DELFT)**

**Compulsory courses (18 ECTS)**

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| **Code** | **Course** | **Credits** |
| OE44076 | Offshore Renewable Energy (quarter 3) | 6 |
| OE44097 | Offshore Support Structures (quarter 3) | 6 |
| OE44100 | Floating Structures and Offshore Moorings (quarter 4) | 6 |

**Ethics and Engineering:** Choose 1 out of 2 (3 ECTS)

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|  | **Code** | **Course** | **Credits** |
| [ ]  | WM0320TU | Ethics and Engineering (quarter 3) | 3 |
| [ ]  | WM0349WB | Philosophy of Engineering Science and Design (quarter 4) | 3 |

**Elective courses** (min. 9 ECTS)

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| --- | --- | --- | --- |
|  | **Code** | **Course** | **Credits** |
| [ ]  | OE44030 | Offshore Geotechnical Engineering (quarter 3) | 4 |
| [ ]  | OE44085 | Fatigue Strength of Marine Structures (quarter 3) | 5 |
| [ ]  | OE44050 | CFD for Offshore and Dredging Engineering (quarter 4) | 3 |
| [ ]  | OE44105 | Marine Pipelines (quarter 4) | 4 |
| [ ]  | OE44090 | Introduction to Computational Dynamics of Offshore Structures (quarter 4) | 4 |
| [ ]  | OE44110 | Subsea Engineering (quarter 4) | 4 |
| [ ]  | MT44000 | Mechatronics in MT (quarter 4) | 5 |

**MSc EWEM-OE: Semester 3 (NTNU)**

**Compulsory courses:** choose one out of two (15 ECTS)

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| --- | --- | --- | --- |
|  | **Code** | **Course** | **Credits** |
| [ ]  | TMR4590 | Wind Turbine Energy - Offshore Engineering, Specialization Project | 15 |
| [ ]  | TBM4501 | Civil and Environmental Engineering, Specialization Project | 15 |

**Elective courses** (min. 15 ECTS)

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| --- | --- | --- | --- |
|  | **Code** | **Course** | **Credits** |
| [ ]  | TMR4190 | Finite Element Methods in Structural Analysis | 7.5 |
| [ ]  | TMR4215 | Sea Loads | 7.5 |
| [ ]  | TMR4305 | Advanced Analysis of Marine Structures  | 7.5 |
| [ ]  | TMR4505 | Marine Structures, Specialization Course  | 7.5 |
| [ ]  | TMR4525 | Marine Hydrodynamics, Specialization Course | 7.5 |
| [ ]  | TMR4235 | Stochastic Theory of Sealoads  | 7.5 |
| [ ]  | TMR4200 | Fatigue and Fracture of Marine Structures  | 7.5 |
| [ ]  | TBA4116  | Geotechnical Engineering, Advanced Course  | 7.5 |
| [ ]  | TMM4195 | Fatigue Design | 7.5 |
| [ ]  | AT-327 | Arctic Offshore Engineering | 10 |
| [ ]  |  | Additional electives |       |

**Elective courses**: use this space for any additional (free) electives or free specialisation.

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| **Code** | **Course** | **Credits** |
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**MSc EWEM-OE: Semester 4**

**Compulsory courses**

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|  | **Code** | **Course** | **Credits** |
|  | OE54030EWEM | EWEM MSc Thesis (TU Delft) | 30 |
| [ ]  | TMR5950 | Wind Turbine Energy – Offshore Engineering, Master Thesis | 30 |
| [ ]  | TBM4900 | Master’s Thesis in Civil and Environmental Engineering | 30 |

**Alterations to standard M.Sc. programme**

*Please indicate any deviation from the standard M.Sc. programme here by filling in the courses to be added or deleted. Please note that every course added or deleted must be authorised (= signed off) by the Track Coordinator.*

**Courses to be added**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Course** | **Credits** | **Authorisation** |
|       |       |       |       |
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**Courses to be deleted**

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| --- | --- | --- | --- |
| **Code** | **Course** | **Credits** | **Authorisation** |
|       |       |       |       |
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| The student hereby agrees with the schedule of courses as listed above and agrees that the schedule can be completed within a reasonable period of study: | The NTNU track coordinator hereby agrees with the schedule of courses as listed above and agrees that the schedule can be completed within a reasonable period of study: | The TU Delft track coordinator hereby agrees with the schedule of courses as listed above and agrees that the schedule can be completed within a reasonable period of study: |
| Name:      Date:      Signature:  | Name:      Date:      Signature:  | Name:      Date:      Signature:  |