



Instructional Modules of Advanced Naval Architecture

Compulsory Modules (110 credits)		Credits
NM 835	Ship Operability and Control (S2)	10
NM 838	Ship Powering in Service (S1)	10
NM 839	Group Design Project (S2)	40
NM 840	Advanced Marine Design (S1&S2)	10
NM 950	Maritime Safety and Risk (S2)	10
NM 962	Advanced Marine Structures (S1)	10
NM 963	Theory and Practice of Marine CFD (S1)	10
NM 973	Maritime Regulatory Framework (S2)	10
Optional Modules (10 credits required)		Credits
NM 836	Data Analysis for Engineering (S2)	10
NM 845	Shipping Economics and Market Sector Analysis (S1)	10
NM 946	Inspection and Survey (S1)	10

N.B. S1 – Semester One; S2 – Semester Two.

Instructional Modules of Marine Engineering

Compulsory Modules (110 credits)		Credits
NM 916	System Availability and Maintenance (S2)	10
NM 845	Shipping Economics and Market Sector Analysis (S1)	10
NM 946	Inspection and Survey (S1)	10
NM 950	Maritime Safety and Risk (S2)	10
NM 951	Marine Engineering Simulation and Modelling (S1)	10
NM 952	Advanced Marine Engineering (S2)	10
NM 964	MSc Group Project – NAME (S2)	40
NM 980	On-board Energy Management and Marine Environment Protection (S1)	10
Optional Modules (10 credits required)		Credits
EF 931	Project Management (S1)	10
EF 932	Risk Analysis and Management (S2)	10
NM 836	Data Analysis for Engineering (S2)	10
NM 844	Autonomous Marine Vehicles and Digital Twin (S2)	10

N.B. S1 – Semester One; S2 – Semester Two.

Instructional Modules of Marine Engineering with Specialisation in Autonomous Marine Vehicles

Compulsory Modules (110 credits)

		Credits
DM 996	Intelligent Sensing, Reasoning and Deep Learning (S1/S2)	20
NM 836	Data Analysis for Engineering (S2)	10
NM 837	Underwater Vehicles (S2)	10
NM 844	Autonomous Marine Vehicles and Digital Twin (S2)	10
NM 916	System Availability and Maintenance (S2)	10
NM 951	Marine Engineering Simulation and Modelling (S1)	10
NM 964	MSc Group Project (S2)	40

Optional Modules (10 credits required)

		Credits
NM 845	Shipping Economics and Market Sector Analysis (S1)	10
NM 946	Inspection and Survey (S1)	10
NM 950	Maritime Safety and Risk (S2)	10
NM 973	Maritime Regulatory Framework (S2)	10

N.B. S1 – Semester One; S2 – Semester Two.

Instructional modules of Offshore Floating Systems

Compulsory Modules (120 credits)

		Credits
NM 839	Group Design Project (S2)	40
NM 946	Inspection and Survey (S1)	10
NM 950	Maritime Safety and Risk (S2)	10
NM 958	Risers and Mooring Lines (S1)	10
NM 959	Dynamics of Floating Offshore Installations (S2)	10
NM 960	Finite Element Analysis of Floating Structures (S1)	10
NM 961	Design and Construction of FPSOs (S2)	10
NM 962	Advanced Marine Structures (S1)	10
NM 963	Theory and Practice of Marine CFD (S1)	10

N.B. S1 – Semester One; S2 – Semester Two.

Instructional modules of Offshore Wind Energy

Compulsory Modules (120 credits)

		Credits
EE 820	Offshore Wind Farm O&M and Economics (S2)	10
EE 821	Wind Generators Modelling and Control (S1)	10
EE 989	Wind Turbine Technology (S1/S2)	20
NM 839	Group Design Project (S2)	40
NM 841	Offshore Wind Turbines Dynamics Modelling (S1/S2)	20
NM 842	Offshore Structural Integrity (S2)	10
NM 843	Risk and Reliability Engineering (S1)	10

N.B. S1 – Semester One; S2 – Semester Two.

Instructional Modules of Ship and Offshore Structures

Compulsory Modules (120 Credits)

		Credits
NM 839	Group Design Project (S2)	40
NM 958	Risers and Mooring Lines (S1)	10
NM 959	Dynamics of Floating Offshore Installations (S2)	10
NM 960	Finite Element Analysis of Floating Structures (S1)	10
NM 962	Advanced Marine Structures (S1)	10
NM 967	Reliability-Based Marine Structural Design Including Plated Structures (S2)	10
NM 979	Computational Modelling of Problems in Plated Mechanics (S2)	10
NM 981	Materials Engineering (S1/S2)	20

N.B. S1 – Semester One; S2 – Semester Two.

Instructional modules of Ship and Offshore Technology (24 months)

First Year at the University of Strathclyde

All students shall spend the first year at the University of Strathclyde University and undertake classes amounting to no fewer than 120 credits as follows:

Compulsory Modules		Credits
NM 946	Inspection and Survey (S1)	10
NM 950	Maritime Safety and Risk (S2)	10
NM 958	Risers and Mooring Lines (S1)	10
NM 959	Dynamics of Floating Offshore Installations (S2)	10
NM 960	Finite Element Analysis of Floating Structures (S1)	10
NM 961	Design and Construction of FPSOs (S2)	10
NM 963	Theory and Practice of Marine CFD (S1)	10
NM 966	Marine Pipelines (S1)	10
NM 982	Research Project – SOT (S2)	20
NM 983	MSc Group Project – NAME (SOT) (S2)	20

N.B. S1 – Semester One; S2 – Semester Two.

Instructional modules of Subsea and Pipeline Engineering

Compulsory Modules (120 credits)		Credits
NM 801	Marine Pipeline Integrity (S2)	10
NM 837	Underwater Vehicles (S2)	10
NM 839	Group Design Project (S2)	40
NM 950	Maritime Safety and Risk (S2)	10
NM 960	Finite Element Analysis of Floating Structures (S1)	10
NM 958	Risers and Mooring Lines (S1)	10
NM 959	Dynamics of Floating Offshore Installations (S2)	10
NM 966	Marine Pipelines (S1)	10
NM 977	Subsurface Technology (S1)	10

N.B. S1 – Semester One; S2 – Semester Two.

Instructional modules of Sustainable Engineering: Marine Technology

Compulsory Modules (100 credits)		Credits
AB 975	Sustainability (S1)	10
EF 936	Sustainable Engineering Group Project – NAME (S2)	40
NM 950	Maritime Safety and Risk (S2)	10
NM 958	Risers and Mooring Lines (S1)	10
NM 961	Design and Construction of FPSOs (S2)	10
NM 962	Advanced Marine Structures (S1)	10
NM 963	Theory and Practice of Marine CFD (S1)	10
Optional Modules (20 credits required)		Credits
EF 927	Design Management (S1)	10
EF 931	Project Management (S1)	10
EF 932	Risk Analysis and Management (S2)	10
EV 939	Environmental Impact Assessment (S2)	10
NM 975	Computational Free-Surface Hydrodynamics (S2)	10

In addition to the information provided here, you must read and thoroughly familiarise yourself with the contents of the Handbook for the Engineering Faculty Postgraduate Training Programme in Sustainable Engineering.

N.B. S1 – Semester One; S2 – Semester Two.

Instructional modules of Sustainable Engineering: Offshore Renewable Energy

Compulsory Modules (100 credits)		Credits
AB 975	Sustainability (S1)	10
EF 936	Sustainable Engineering Group Project – NAME (S2)	40
ME 927	Energy Resources and Policy (S1)	10
ME 929	Electrical Power Systems (S1)	10
*NM 833	Renewable Marine Energy Systems (S1)	10
NM 960	Finite Element Analysis of Floating Structures (S1)	10
NM 969	Renewable Marine Energy Systems (S2)	10
NM 978	Physical Testing of Offshore Renewable Energy Devices (S1)	10
Optional Modules (20 credits required)		Credits
EF 927	Design Management (S1)	10
EF 929	Financial Engineering (S2)	10
EF 931	Project Management (S1)	10
EF 932	Risk Analysis and Management (S2)	10
EV 939	Environmental Impact Assessment (S2)	10

*NM833 – for non-Naval Architects only

In addition to the information provided here, you must read and thoroughly familiarise yourself with the contents of the Handbook for the Engineering Faculty Postgraduate Training Programme in Sustainable Engineering.

Instructional modules of Technical Ship Management

Compulsory Modules (100 credits)		Credits
EF 931	Project Management (S1)	10
NM 916	Systems Availability and Maintenance (S2)	10
NM 950	Maritime Safety and Risk (S2)	10
NM 964	Group Project (S2)	40
NM 973	Maritime Regulatory Framework (S2)	10
NM 980	Onboard Energy Management and Marine Environment Protection (S1)	10
NM 845	Shipping Economics and Market Sector Analysis (S1)	10
Optional Modules (20 credits required)		Credits
EF 929	Financial Engineering (S2)	10
NM 836	Data Analysis for Engineering (S2)	10
NM 946	Inspection and Survey (S1)	10

N.B. S1 – Semester One; S2 – Semester Two.