

## CURRICULUM - undergraduate (1st cycle/BACHELOR) degree programme in Mechanical Engineering



1st year	hrs/ week
Mathematics	5
Physics	3,5
English	3
Mechanics	2,5
Applied computer science	2
Engineering graphics	2
Marine Materials Science	2
Technical thermodynamics	2
Introduction to Electrotechnology and Electrotechnics	1,5
Introduction to Economics	1
Technical chemistry	1
Introduction to Ship Construction and Crew Organisation	1
Fluid mechanics	1
Ship Theory and Construction	1
Physical Education	1
Introduction to Nautical Science	0,5

2nd year	hrs/ week
Strength of materials	2,5
Engineering of Manufacturing II workshop apprenticeship	2,5
Electrical Machines and Propulsion	2,5
Introduction to Machinery Design	2
English	2
Ship Theory and Construction	2
Engineering of Manufacturing III welding	2
Introduction to Automation and Robotics	1,5
Mathematics	1,5
Engineering of Manufacturing I	1,5
Introduction to Electrotechnology and Electrotechnics	1
Safe Ship Operation Management	1
Technical thermodynamics	1
Physical Education	1

3rd year	hrs/ week	
	sem. 1	sem. 2
Introduction to Machinery Design	4	practical onboard training
Marine Piston Engines	4	
Marine Power Plants	4	
Marine Electrotechnology	4	
Marine Boilers	3,5	
Repair technology	3	
Chemistry to Water Fuels and Lubricants	3	
English	2	
Marine Machinery and Equipment	2	
Marine Environment Protection	2	
Intellectual Property Protection	1	
Physical Education	1	

4th year	hrs/ week	
Marine Automation and Metrology	3	
Marine Machinery and Equipment	2,5	
Marine Piston Engines	2,5	
Refrigeration and air conditioning	2	
Marine Power Plants	2	
Repair technology	2	
Marine Power Plant Equipment Operation - Simulator	1,5	
Use of Fuels and Lubricants	1	
Technical Supervision System	1	
Diploma Seminar	1	
Human resources management	1	
Marine Law and Insurance	1	
English	1	
Physical Education	1	
Modern Designs of Marine Piston Engines	1	Diploma field: Propulsion systems with piston engines
Environment Protection in Ship Operation	1	
Marine Propulsion Systems	1	Diploma field: Oil Tanker Operation
Ship Energy Management	1	
Oil Tanker Construction	1	
Oil Tanker Operation	1,5	Diploma field: Turbine Propulsion
Ecological aspects of Oil Tanker Operation	1	
Occupational Safety on Gas tankers	0,5	
Operation of Marine Steam and Gas Turbines	1,5	
Main Steam Boilers	0,5	
Marine Turbine Equipment and Installations	0,5	
Marine Steam Turbine Power Plant Operation	1	