

Learning Unit: IMM05 – Green Shipping

Semester	Frequency	Duration	Type	ECTS points	Student workload
2	Semesterly	1 Sem.	Mandatory	6	150 hours, comprising contact hours: 6 h self study: 144 h

Prerequisites for participation	Utility	Examination type and duration (Prerequisite for transferal of ECTS)	Teaching and learning methods	Unit coordinator
-	M.Sc. IMM	Course achievement (Studienleistung): computer test; Examination (Prüfungsleistung): home assignment	Course book, self study, discussion in bulletin board	Prof. Ralf Brauner

Learning objectives

Upon completion of this learning unit, students are able to ...

- explain climate changes and evaluate the consequences for the maritime industries.
- compare and interpret collected data of research studies.
- sequence and categorise information of issues related to green shipping.
- understand the basic principles relating to the technical structure of ports and ships.
- describe, evaluate and communicate the impact of research and other accomplishments in green shipping.

Unit contents

- Climate of the ocean and atmosphere and consequences for climate change
- Green ship and ports requirements and legislation
- Emissions of ships and ports to the atmosphere and ocean
- Reduction in emissions and efficiency related to ships and ports
- Environmental aspects, economics and sustainability
- Risk management

Lectures

Lecturer(s)	Name of learning unit	Weekly lessons
Prof. Ralf Brauner	Green Shipping	-