Maritime Transport

Maritime transport plays and will continue to play an essential role in global and European trade and economy Shipping emissions are currently increasing and will most likely continue to do so in the future due to the increase of global-scale trade. Ship emissions have the potential to contribute to air quality degradation in coastal areas, in addition to contributing to global air pollution. Mitigation strategies to achieve sustainability are possible.

Period:	Period 4
Course coordinator:	Prof. David Sanchez - University of Seville - email: ds@ us es
Lecturer:	Prof. David Sanchez - University of Seville - email: ds@ us es
Educational management portal:	moodle.unitus.it
Objectives:	Familiarise the students with the main characteristics of cargo ships used today. Provide an insight into more sustainable propulsion systems for cargo ships Provide a holistic view of the impact of using more sustainable fuels and propulsion systems on ship concept and infrastructures
Programme:	● Introduction: carbon footprint of maritime transport toda ● Contemporary cargo ship technology ● Sustainable Maritime Fuels: role, production and impact on carbon footprint
Pre-requisites:	Fundamentals of Thermodynamics, in particular energy conversion systems for power generation.
Study material:	● Lecture slides; ● Reading material; ● Additional literature handed out during the course / made available via Blackboard.

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