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# SUSTAINABLE SHIP AND SHIPPING 4.0

Erasmus Mundus Joint Master Degree

Excellence in education for a new generation of Naval Architects and Marine Engineers

## SEAS 4.0 INTAKE 2021/22 WORKSHOP WEEK November 2<sup>nd</sup> – 5<sup>th</sup> 2021



UNIVERSITY OF NAPLES FEDERICO II  
DEPARTMENT OF INDUSTRIAL ENGINEERING  
*VIA CLAUDIO 21, EDIFICIO IX,  
AULA SEAS 4.0*

<http://www.master-seas40.unina.it/>



## WORKSHOP WEEK PROGRAM

Department of Industrial Engineering, Via Claudio 21, Edificio X, Aula SEAS 4.0 and MS TEAMS meetings

November 2 <sup>nd</sup> , 2021 TUESDAY	November 3 <sup>rd</sup> , 2021 WEDNESDAY	November 4 <sup>th</sup> , 2021 THURSDAY	November 5 <sup>th</sup> , 2021 FRIDAY
<p><b><u>SHIP DESIGN</u></b> – Prof. C. Bertorello</p> <p>Data Base Management and Multi Attribute Decision Making</p> <p>9:30-11:30</p>	<p><b><u>ROBOTICS</u></b> – Prof. V. Lippiello</p> <p>Industry 4.0 and Autonomous Ships Effects on Marine Environment</p> <p>9:00 – 10:30</p>	<p><b><u>REGULATORY FRAMEWORK</u></b> – Prof. I. Backalov</p> <p>Discussion of students’ projects</p> <p>9:30 – 11:00</p>	
<p><b><u>SHIP SEAKEEPING</u></b> – Prof. E. Begovic</p> <p><b><u>SHIP STRUCTURE</u></b> – Prof. J. Andric</p> <p>Discussion of students’ projects</p> <p>11:30 – 12:00</p>	<p><b><u>STRUCTURAL ANALYSIS OF SHIPS AND OFFSHORE STRUCTURES</u></b> – Prof. A. Düster</p> <p>Basic equations of elastostatics</p> <p>11:40 – 13:30</p>	<p><b><u>SHIP DESIGN</u></b> – Prof. C. Bertorello</p> <p>Discussion of students’ projects</p> <p>11:00 - 12:30</p>	
<p><b><u>ALTERNATIVE FUELS</u></b> – Prof. E. Fasano</p> <p>Propulsion systems and selection of marine propulsion</p> <p>14:30-16:20</p>	<p><b><u>2nd GENERATION OF INTACT SHIP CRITERIA</u></b> – Prof. P. Gualeni</p> <p>Discussion of students’ projects</p> <p>15:00-17:00</p>	<p><b><u>Discussion of students’ projects</u></b></p> <p><b>Prof. S Ehlers</b></p> <p>13:00 - 14:30</p>	<p><b><u>STUDENTS’ PROJECTS FIRST PRESENTATION</u></b></p> <p>14:00 - 17:00</p>
<p><b><u>ALTERNATIVE FUELS</u></b> – Prof. E. Fasano</p> <p>Energy sources &amp; Environmental restraints - The reasons to change towards alternative fuels</p> <p>16:30-18:20</p>		<p><b><u>VIRTUAL PROTOTYPING</u></b> – Prof. G. Di Gironimo</p> <p>Practical lesson using Rhinoceros software</p> <p>Discussion of students’ projects – S. Papa</p> <p>14:30-18:20</p>	