

	<b>Implementation schedule</b>	<b>Physically/ Remotely</b>	<b>Contact hours</b>	<b>Autonomous work for students (max hours)</b>	<b>Learning outcomes</b>
<b>Activity 1</b>	Kick-off and SRH introduction. Brief overview of global shipbuilding market. Shipyard technology levels. Automated and robotized welding.	<b>Hybrid</b>	<b>3</b>	<b>5</b>	Understands how the world shipbuilding market works, what determines the competitiveness of shipyards.
<b>Activity 2</b>	Brief theory of arc welding processes. Classification of welding processes and consumables, working with standards.	<b>Hybrid</b>	<b>5</b>	<b>5</b>	Able to analyse arc welding processes and consumables within the context of automated and robotised production.
<b>Activity 3</b>	Welding Quality. Destructive and non-destructive testing. Control measures, laboratory equipment, working with standards.	<b>Hybrid</b>	<b>5</b>	<b>5</b>	Knows how to perform welding quality control, NDT and DT.
<b>Activity 4</b>	Visit to the shipyard.	<b>Physically</b>	<b>5</b>	<b>5</b>	Understands the ship hull building process.
<b>Activity 5</b>	Experimental methodology: processes, parameters, preparation of specimens.	<b>Physically</b>	<b>5</b>	<b>5</b>	Able to develop the methodology of the welding experiment.
<b>Activity 6</b>	Non-destructive quality control of welded joints in the laboratory, use of appropriate standards.	<b>Physically</b>	<b>5</b>	<b>5</b>	Knows how to perform NDT.
<b>Activity 7</b>	Destructive quality control of welded joints in the laboratory, use of appropriate standards including macro section analysis and weld structure analysis.	<b>Physically</b>	<b>3</b>	<b>5</b>	Knows how to perform DT.

<b>Activity 8</b>	Formulation conclusions and practical recommendations. Report writing.	<b>Hybrid</b>	<b>5</b>	<b>10</b>	Able to analyze the obtained results, to formulate conclusions, recommendations
<b>Activity 9 (mandatory)</b>	Preparation of a report Wrap-up of the SRH.	<b>Hybrid</b>	<b>5</b>	<b>13</b>	Enhance proficiency in written and oral communication within a particular field, utilizing specialized terminology
<b>Total Hours</b>			<b>42</b>	<b>58</b>	<b>100</b>