

# Workshop on Rhinoceros and Maxsurf

Facilitator: Rounak Saha Niloy, Asst. Naval Architect, ShipDyn Ltd.

Venue: Military Institute of Science and Technology (MIST)

Organized By: Dept. of NAME, MIST

Duration: 09 February, 2020 to 20 February, 2020

## Content

Lecture No.	Lecture Item
Lecture 01	<ul style="list-style-type: none"><li>• Introduction to <i>Rhinoceros</i></li><li>• Lines Plan from Offset Table using <i>Rhinoceros</i></li><li>• 3D Hull from Lines Plan using <i>Rhinoceros</i></li><li>• 3D Hull from scratch based on Principal Particulars</li></ul>
Lecture 02	<ul style="list-style-type: none"><li>• Introduction to <i>Maxsurf</i></li><li>• Creation of Hull from Existing Lines Plan in <i>Maxsurf</i></li><li>• Hull Transformation</li><li>• Simple Hull Like Barge Creation using <i>Maxsurf</i> only</li></ul>
Lecture 03	<ul style="list-style-type: none"><li>• Set Perpendicular Location (AP, MP, FP)</li><li>• Deck Edge/Margine Line Definition</li><li>• Hydrostatic Calculation using <i>Maxsurf Modeler</i></li><li>• Hydrostatic Calculation using <i>Maxsurf Stability</i></li></ul>
Lecture 04	<ul style="list-style-type: none"><li>• Tank and Compartment Creation</li><li>• Sounding Pipe Creation, Tank Calibration</li><li>• Definition of Wind Area for Applying Wind Heeling Moment</li></ul>
Lecture 05	<ul style="list-style-type: none"><li>• Floodable Length Analysis</li><li>• Definition of Stability Criteria, Defining Loadcases</li><li>• Large Angle Stability</li><li>• Limiting KG Analysis</li><li>• Cross Curves of Stability (KN Curves)</li><li>• Analyzing Criteria</li><li>• Equilibrium Analysis</li></ul>
Lecture 06	<ul style="list-style-type: none"><li>• Passenger Crowding</li><li>• Heeling Angle while Turning</li><li>• Damage Stability Overview</li></ul>
Lecture 07	<ul style="list-style-type: none"><li>• Resistance Calculation</li><li>• Hull Fairing</li></ul>
Lecture 08	<ul style="list-style-type: none"><li>• Review</li></ul>