Short Course on Ship Design Software (Rhinoceros & Maxsurf)

Facilitator: **Rounak Saha Niloy**, Asst. Naval Architect, ShipDyn Ltd.
Venue: Bangabandhu Sheikh Mujibur Rahman Maritime University (BSMRMU)
Organized By: Dept. of NAOE, BSMRMU
Duration: 23 February, 2020 to 15 March 2020

Content

Module No.	Lecture Item
Module 01	• Introduction to *Rhinoceros* • Basic 2D Drawing using *Rhinoceros* • Lines Plan from Offset Table using *Rhinoceros* • 3D Hull from Lines Plan using *Rhinoceros*
Module 02	• Introduction to *Maxsurf* • Creation of Hull from Existing Lines Plan in *Maxsurf*
Module 03	• 3D Hull from scratch based on Principal Particulars using *Maxsurf* • Parametric Transformation
Module 04	• Set Perpendicular Location (AP, MP, FP) • Generation of Offset Table and Lines Plan by *Maxsurf* • Deck Edge/Margin Line Definition • Definition of Windage Area
Module 05	• Hydrostatic Calculation using *Maxsurf Modeler* • Hydrostatic Calculation using *Maxsurf Stability* • Cross Curves of Stability (KN Curves)
Module 06	• Tank and Compartment Creation • Sounding Pipe Creation, Tank Calibration • Definition of Downflooding Point • Floodable Length Analysis
Module 07	• Definition of Stability Criteria, Defining Loadcases • Large Angle Stability • Limiting KG Analysis
Module 08	• Resistance Calculation • Hull Surface Fairing
Module 09	• Damage Stability Overview
Module 10	• Review