

OE6990: ADVANCED MARINE VEHICLES

Course Content:

1. An introduction in advanced marine vehicle (AMV) types. 2. The basic principles of the different types of advanced marine vehicles will be explained, supported by data of recently build vessels. 3. Hydrodynamic aspects, the contradiction between resistance and propulsion and on the other hand ships movements will be dealt with. 4. Design strategies in the design of advanced marine vehicles. 5. Several types of propulsion systems such as but not limited to water jets, cavitating and non cavitating propellers. 6. Structural Aspects of AMVs 7. An introduction to warship and Submarines 8. Hydrostatic and hydrodynamic aspects of warship and Submarine

Text Books:

1. **Thomas Lamp** "Ship Design and Construction" Vol1 and Vol 2 published by SNAME

Reference Books:

1. **Liang Yun** " High Performance marine vessels" Springer publication
2. **PJ Gates** "Surface Warship-An Introduction to design principles" 1987 Brassey's Defence Publishers

Prerequisite:

Consent of teacher