



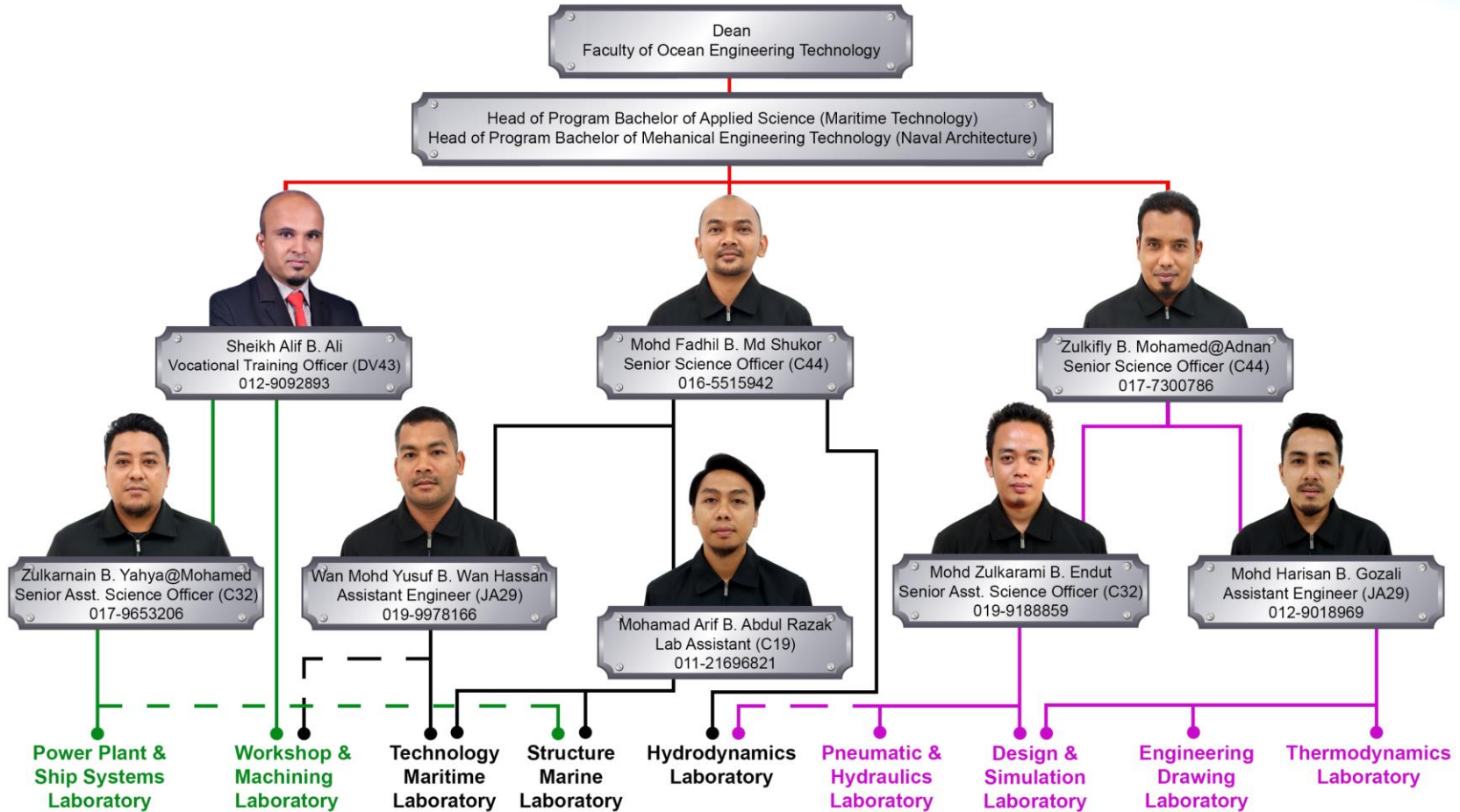
FACULTY OF OCEAN ENGINEERING TECHNOLOGY



# *Maritime Technology & Naval Architecture Laboratory*



## Laboratory Management Organization Chart





# Nautical Science Laboratory Building



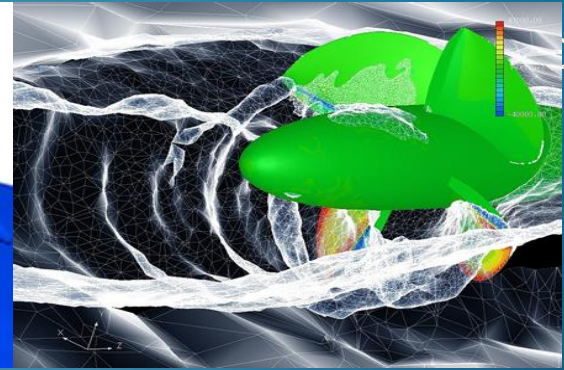
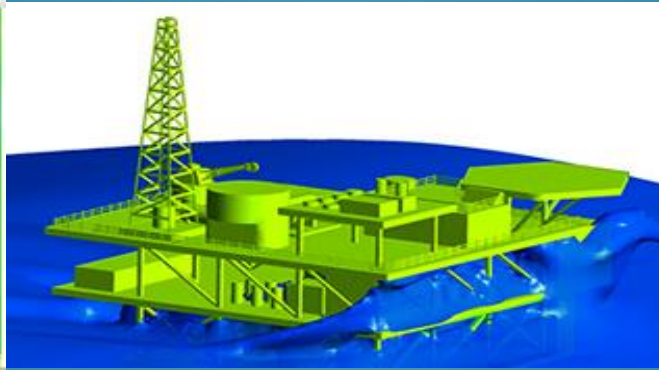
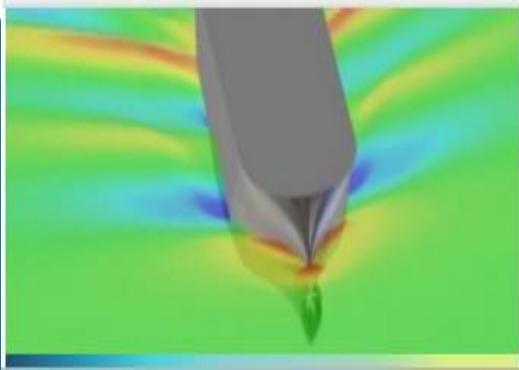




## *Design & Simulation Laboratory*

Functions:

- Pre-lab experience to give students some idea of what they will encounter in actual experiment and help students to familiarize with the experiment, improve the skills and able to predict the outcome prior to performing the experiment in real lab.
- To grasp theoretical knowledge easily when performing experiment in the real lab



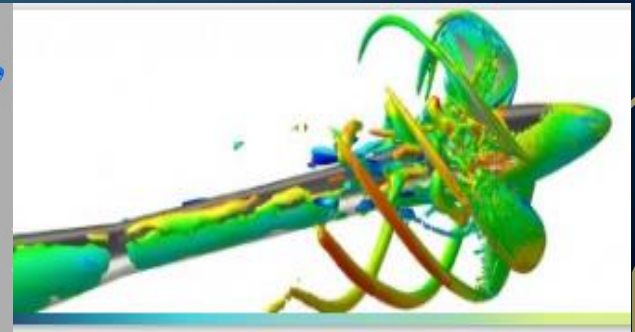
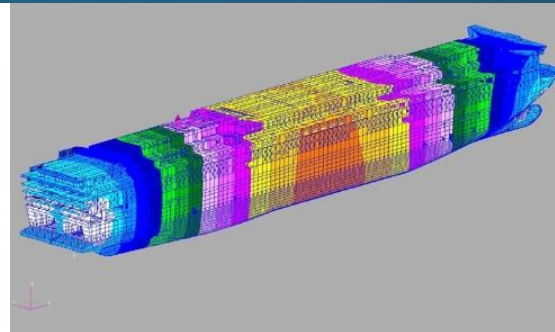
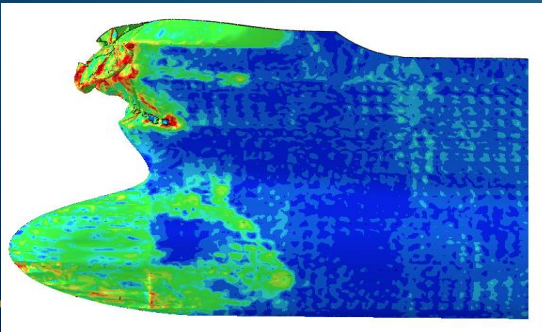
## Design & Simulation Laboratory

### Software

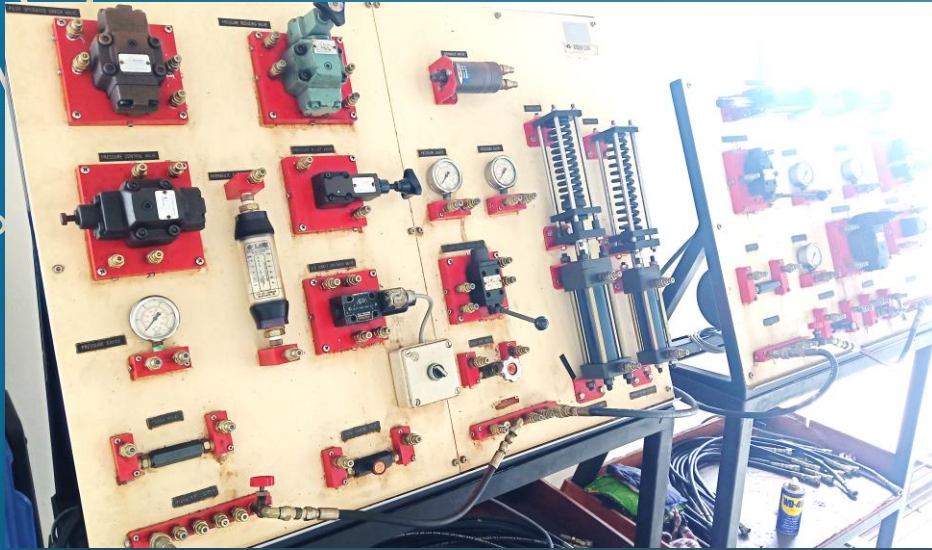
- Autocad
- Flow 3d
- Fine Marine
- Bentley
- Orcaflex
- Abaqus
- Shipconstructor
- Ariane
- Hydrostar
- Hyperworks
- Matlab

### Activities and Research

- Ship collision and grounding
- Residual strength of damage hull
- Ultimate strength of ship hull
- Composite structures
- Structural impacts
- Ship resistance
- Ship manouvering
- Ship design & production
- Cavitation
- Offshore structures
- Explosion analysis



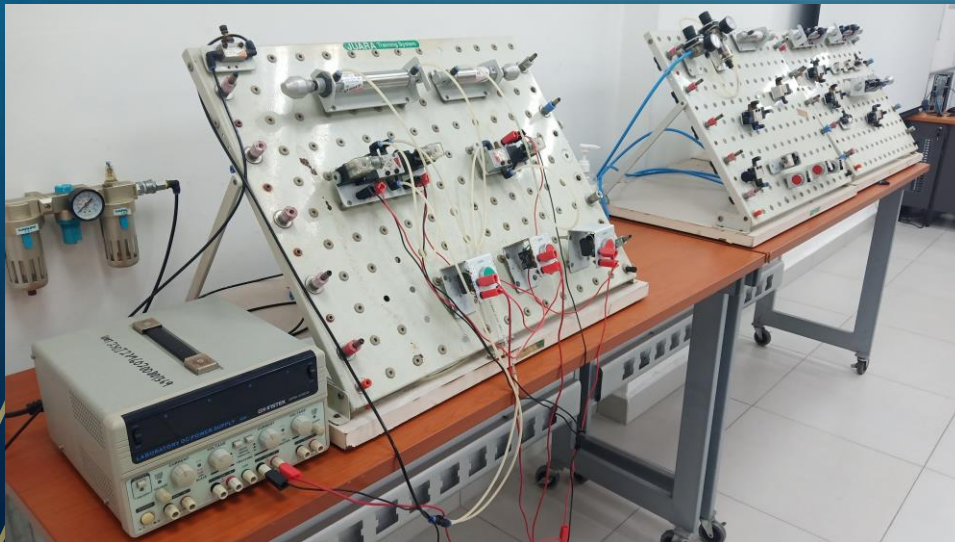




## Hydraulics Laboratory

- Hydraulics Training Set, Basic Level
- Hydraulics Training Set, Advanced Level





## Pneumatics Laboratory

- Pneumatics Training Set, Basic Level
- Pneumatics Training Set, Advanced Level
- COM3LAB multimedia courses



- Air Conditioning Training Unit
- Heat Exchanger Training Unit
- Boiler

## Hydrodynamics Laboratory







# Workshop Building





## Maritime Technology Laboratory

- Fabricate models and prototypes
- CNC Milling Machine
- 3D Printer





## Maritime Technology Laboratory

- Lathe machine
- Milling machine



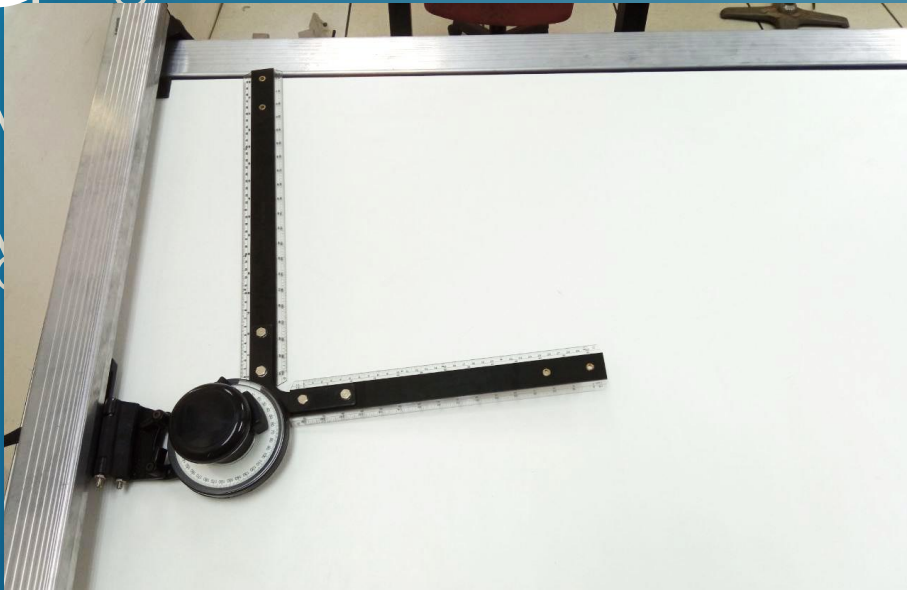


- Small Engine Test Beds Gasoline
- Small Engine Test Beds Diesel
  - Steam Engine
  - Exhaust Gas Analyzer

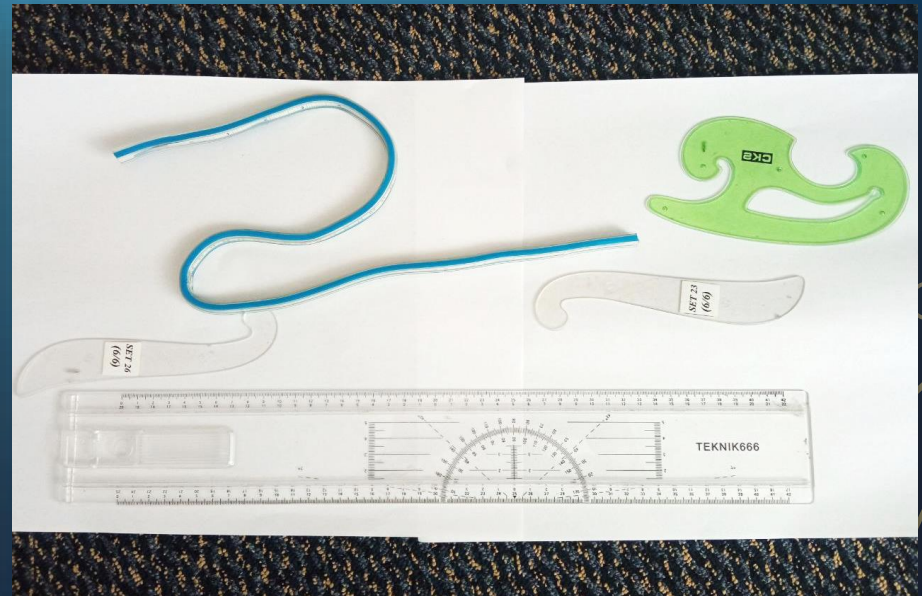
## Power Plant and Ship Systems Laboratory







## Engineering Drafting Laboratory





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