



**Telemark University College**  
Faculty of Technology

## **FMH606 Master's Thesis**

**Title: Black Team testing methods and Design Full Picture Test Lab**

**TUC supervisor: Hans-Petter Halvorsen**

**External partner: Kongsberg Maritime AS**

**Task description:**

1. Investigate strategies for Black Team testing
2. Prepare report templates to be used for Black Team testing
3. Design of Full Picture Test lab
4. Build Full Picture Test lab

**Task background:**

Kongsberg Maritime have created a new test group called Black Team inspired by the IBM Black Team. This group should perform destructive testing independent of other test teams. The goal is to discover weak points and errors in Kongsberg Maritime products. This team is new for Kongsberg Maritime and information of test methods and test report templates are needed. In parallel a large lab with equipment used on a ship equipped with Kongsberg Maritime solutions should be designed and built.

**Student category:**

The project is reserved for Tore Tengesdal, SCE student employed by Kongsberg Maritime AS

**Practical arrangements:**

KM hardware will be used. The project will be performed at Kongsberg Maritime head office in Kongsberg.

**Signatures:**

Supervisor (date and signature):

Students (date and signature):