

GUJARAT TECHNOLOGICAL UNIVERSITY

Marine Engineering

B. E. SEMESTER: VI

Subject Name: **Field Training**

Subject Code: **161807**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Practical (I)
0	0	6	6	0	0	100

General Guidelines:

Students will undergo 2 weeks of Industrial Shop Training preferably on board a ship/ at a ship building yard/ at a large ship repair facility, during which he/ she is expected to learn following:

Sr. No	Course Content
1.	Dismantling, overhauling, inspection & assembling of Centrifugal Pump.
2.	Dismantling, overhauling, inspection & assembling of a gear pump & screw pump.
3.	Dismantling, overhauling, inspection & assembling of a reciprocating pump
4.	Dismantling, overhauling, inspection & assembling of variable displacement pump (swash plate)
5.	Dismantling, overhauling, inspection & assembling of sludge pump.
6.	Dismantling overhauling & testing of fuel injector.
7.	Dismantling, overhauling, inspection & assembling of Air Compressor.
8.	Dismantling, overhauling, inspection & assembling of purifier.
9.	Inspection & Overhauling of air bottle, mountings.
10.	Dismantling, overhauling, inspection & assembling of shell & tube type cooler.
11.	Dismantling, overhauling, inspection & assembling of plate type cooler.
12.	Operation & working principles of F.W. Generator & Reverse osmosis system.
13.	Operation & working principles of oily water separator.
14.	Overhauling inspection & assembling of Boiler safety v/v.
15.	Overhauling inspection & assembling of feed check v/v.

16.	Overhauling inspection & assembling gauze glass.
17.	To fabricate & weld a pipe with given pipe length & flanges.
18.	To repair a leak in pipe by fitting a doubler.
19.	To make a pipe line with bends (welding).
20.	To dismantle, inspect & overhaul a hydraulic pp for deck crane.
21.	Practice of welding.
22.	Practice of Brazing & Soldering.
23.	Tracing of pipelines.
24.	Turning, cutting and similar operations by Lathe machine.

The student shall prepare the report based on learning during the training. The evaluation shall be based on the report submitted and viva voce.