



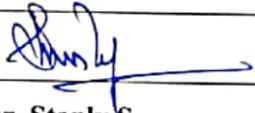

Department of APPLIED CHEMISTRY		LP: SUB CODE
		Rev. No: 00
B.E/B.Tech/M.E/M.Tech : Marine Engineering	Regulation: R 2018	Date: 10-12-2019
PG Specialisation :		
Sub. Code / Sub. Name : MR 18412 Thermal Engineering and Boiler Chemistry Laboratory		

Session No*	List of Experiments
CYCLE-I	
1	Estimation of hardness content of the sample of boiler water
2	Determination of chloride content of the water sample in PPM CaCO ₃
3	Determination of alkalinity of water due to phenolphthalein, total alkalinity and caustic alkalinity of water sample in PPM CaCO ₃
4	Determination of Dissolved Oxygen (DO) content of the water sample
5	Determination of pH value and Total Dissolved Solids (TDS) of water
6	Determination of turbidity and sulphate content of the water sample
CYCLE-II	
7	Determination of phosphate content of the water sample
8	Analysis of sludge & scale - silica, volatile & non-volatile matter
9	Fresh Water Analysis – Estimation of chloride, sulphate and hardness.
10	Sea Water Analysis – Estimation of chloride, sulphate and hardness.
11	Waste water treatment - Estimation of acetic acid adsorbed from the wastewater by activated charcoal
12	Model Practical Examination
Content beyond syllabus (if any):	

* Session Duration: 150 minutes



Sub. Code / Sub. Name: MR 18412 Thermal Engineering and Boiler Chemistry Laboratory

	Prepared by	Approved by
Signature		
Name	Dr. Stanly S	Dr. G. Devasagayam
Designation	Associate Professor / ACH	Professor & HOD/ ACH
Date	10/12/2019	10/12/2019
Remarks* :		
Remarks* :		

* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD