

PRACTICAL LESSON PLAN

Fr. CRCE (Production)

Academic year – 2019-20

Materials Testing Laboratory

Lab Incharge: Dr. Vasim A. Shaikh

Lab Assistant: Mr. Deepak Gaikwad

July to December 2019

Planned Week	Actual Week	Practicals	Experiment No.	CO Mapping
<u>Week 1</u> (15/07/19 – 19/07/19)	Batch – A	NDT practical on Dye-Penetrant Testing.	1	CO5
	Batch – B	NDT practical on Dye-Penetrant Testing.	1	CO5
	Batch – C	NDT practical on Dye-Penetrant Testing.	1	CO5
<u>Week 2</u> (22/07/19 – 26/07/19)	Batch – A	Tensile Testing on Universal Testing Machine (UTM)	2	CO1
	Batch – B	Tensile Testing on Universal Testing Machine (UTM)	2	CO1
	Batch – C	Tensile Testing on Universal Testing Machine (UTM)	2	CO1
<u>Week 3</u> (29/07/19 – 02/08/19)	Batch – A	Impact Testing (Charpy & Izod)	3	CO4
	Batch – B	Impact Testing (Charpy & Izod)	3	CO4
	Batch – C	Impact Testing (Charpy & Izod)	3	CO4
<u>Week 4</u> (05/08/19 – 09/08/19)	Batch – A	Compression Testing on Universal Testing Machine	4	CO2
	Batch – B	Compression Testing on Universal Testing Machine	4	CO2
	Batch – C	Compression Testing on Universal Testing Machine	4	CO2
<u>Week 5</u> (12/08/19 – 16/08/19)	13-16/08	Unit Test - 1	-	-
<u>Week 6</u> (19/08/19 – 23/08/19)	Batch – A	Bending Testing on Universal Testing Machine (UTM)	5	CO2
	Batch – B	Bending Testing on Universal Testing Machine (UTM)	5	CO2
	Batch – C	Bending Testing on Universal Testing Machine (UTM)	5	CO2
<u>Week 7</u> (26/08/19 – 30/08/19)	Batch – A	Heat treatment Processes – Annealing, Normalizing and Hardening	6	CO6
	Batch – B	Heat treatment Processes – Annealing, Normalizing and Hardening	6	CO6
	Batch – C	Heat treatment Processes – Annealing, Normalizing and Hardening	6	CO6

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Week 8 (03/09/19 – 06/09/19)		Midterm Break	-	-
Week 9 (09/09/19 – 13/09/19)	Batch – A	Sample preparation for microscopic examination	7	CO3
	Batch – B	Sample preparation for microscopic examination	7	CO3
	Batch – C	Sample preparation for microscopic examination	7	CO3
Week 10 (16/09/19 – 20/09/19)	Batch – A	Sample preparation for microscopic examination	7	CO3
	Batch – B	Sample preparation for microscopic examination	7	CO3
	Batch – C	Sample preparation for microscopic examination	7	CO3
Week 11 (23/09/19 – 27/09/19)	All batches	Journal completion and checking	-	-
Week 12 (30/09/19 – 04/10/19)	All batches	Journal completion and checking	-	-
Week 13 (07/10/19 – 11/10/19)	All batches	Journal completion and checking	-	-
Week 14 (14/10/19 – 18/10/19)	14-16/10	Unit Test - 2	-	-
	18/10	Termwork Submission	-	-

CO1	<i>Conduct tensile test on mild steel specimen.</i>
CO2	<i>Conduct compression and bending test on wooden specimen.</i>
CO3	Prepare sample for metallographic observations.
CO4	<i>To determine the impact toughness of the steel sample.</i>
CO5	Conduct NDT test on materials.
CO6	Perform the heat treatment processes with its relevance in the manufacturing industry.