

## LESSON PLAN

<b>Discipline:</b> Mech. Engg.	<b>Semester:</b> Fourth(4 <sup>th</sup> )	<b>Name of the Lab I/C:</b> Er. Prasanta Kumar Mohanty.
<b>Subject:</b> ME lab-II	<b>No. of days/week class allotted:</b> Three(03)	<b>Semester from Date:</b> 14.02.23 <b>to Date:</b> 23.05.23 <b>No of Weeks:</b> 15
<b>WEEK</b>	<b>CLASS DAY</b>	<b>PRACTICAL EXPERIMENTS</b>
1 <sup>st</sup>	1 <sup>st</sup>	Study of 2-S, 4-S petrol and diesel engine models.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
2 <sup>nd</sup>	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
3 <sup>rd</sup>	1 <sup>st</sup>	Determination of brake thermal efficiency of single cylinder petrol engine.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
4 <sup>th</sup>	1 <sup>st</sup>	Determination of brake thermal efficiency of single cylinder diesel engine.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
5 <sup>th</sup>	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
6 <sup>th</sup>	1 <sup>st</sup>	Determination of BHP, IHP, BSFC of a multi cylinder engine by Morse Test.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
7 <sup>th</sup>	1 <sup>st</sup>	Determine the mechanical efficiency of an air compressor.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	

8 <sup>th</sup>	1 <sup>st</sup>	Study of pressure measuring devices like Manometer and Bourdon tube pressure gauge.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
9 <sup>th</sup>	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
10 <sup>th</sup>	1 <sup>st</sup>	Verification of Bernoulli's theorem.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
11 <sup>th</sup>	1 <sup>st</sup>	Determination of $C_d$ from Venturi meter.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
12 <sup>th</sup>	1 <sup>st</sup>	Determination of $C_c$ , $C_v$ and $C_d$ from orifice meter.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
13 <sup>th</sup>	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
14 <sup>th</sup>	1 <sup>st</sup>	Determination of Darcy's co-efficient from flow through pipe.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
15 <sup>th</sup>	1 <sup>st</sup>	Revision Class
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	

