

## Lesson plan

<b>Discipline:</b> Mechanical Engg.	<b>Semester:</b> Third (3 <sup>rd</sup> )	<b>Name of the Lab I/C:</b> Er Priyabrata Barik
<b>Subject:</b> Mech. Engg. Lab	<b>No. of days/week class allotted:</b> Three (3)	<b>Semester from Date:</b> 15.09.22 <b>to Date:</b> 22.12.22 <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>	Introduction and demonstration of searl's Apparatus.
	2 <sup>nd</sup>	Determination of Young's Modulus of a copper wire using Searl's Apparatus.
	3 <sup>rd</sup>	
2 <sup>nd</sup>	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	<b>Review class.</b>
3 <sup>rd</sup>	1 <sup>st</sup>	Determination of torsional rigidity of a mild steel (M.S) specimen by using Torsion Testing Machine.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
4 <sup>th</sup>	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
5 <sup>th</sup>	1 <sup>st</sup>	Determination of Salient points like Young's Modulus, Yield Point and Fracture point from stress –strain curve of a mild steel specimen using Universal Testing Machine (UTM).
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
6 <sup>th</sup>	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	

7 <sup>th</sup>	1 <sup>st</sup>	Determination of hardness number of HSS specimen by using Rockwell or Vickers Hardness Testing Machine		
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
8 <sup>th</sup>	1 <sup>st</sup>			
	2 <sup>nd</sup>			
	3 <sup>rd</sup>		<b>Review class.</b>	
9 <sup>th</sup>	1 <sup>st</sup>	Determination of toughness of material by using Impact Testing Machine. (Charpy/Izod).		
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
10 <sup>th</sup>	1 <sup>st</sup>			
	2 <sup>nd</sup>			
	3 <sup>rd</sup>		<b>Review class.</b>	
11 <sup>th</sup>	1 <sup>st</sup>	Determination of flash point and fire point of a given fuel.		
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			
12 <sup>th</sup>	1 <sup>st</sup>		Joule's experiment.	
	2 <sup>nd</sup>			<b>Review class.</b>
	3 <sup>rd</sup>			
13 <sup>th</sup>	1 <sup>st</sup>	Revision class		
	2 <sup>nd</sup>			
	3 <sup>rd</sup>			<b>Review class.</b>
14 <sup>th</sup>	1 <sup>st</sup>		Revision class	
	2 <sup>nd</sup>		Revision class	

	3 <sup>rd</sup>	Revision class
15 <sup>th</sup>	1 <sup>st</sup>	Revision class
	2 <sup>nd</sup>	Revision class
	3 <sup>rd</sup>	Revision class