

**GOVERNMENT POLYTECHNIC JAJPUR**

A/ P: Ragadi, Block: Korci, Dist.: Jajpur, Odisha- 755019

Website: <https://www.gpjajpur.org> E-mail: [principalgpjajpur@yahoo.co.in](mailto:principalgpjajpur@yahoo.co.in)**LESSONPLAN**

<b>Discipline:</b> Mechanical	<b>Semester:</b> 5th	<b>Name of the Teaching Faculty:</b> Gitanjali Sethi
<b>Subject:</b> HMIFP Lab	<b>No. Of Days/Week Class Allotted</b>	<b>Semester From Date:</b> 1/7/24 <b>To</b> 8/11/24 <b>Date:</b> <b>No. of Weeks - 15</b>
<b>Week</b>	<b>Class Day</b>	<b>Theory/Practical Topics</b>
<b>1st</b>	1st	Performance test on impulse turbine and to find out the efficiency
	2nd	Performance test on impulse turbine and to find out the efficiency
	3rd	Performance test on impulse turbine and to find out the efficiency
	4th	Performance test on impulse turbine and to find out the efficiency
<b>2nd</b>	1st	Performance test on impulse turbine and to find out the efficiency
	2nd	Performance test on impulse turbine and to find out the efficiency
	3rd	Performance test on Kaplan turbine and to find out the efficiency
	4th	Performance test on Kaplan turbine and to find out the efficiency
<b>3rd</b>	1st	Performance test on Kaplan turbine and to find out the efficiency
	2nd	Performance test on Kaplan turbine and to find out the efficiency
	3rd	Performance test on Kaplan turbine and to find out the efficiency
	4th	Performance test on Kaplan turbine and to find out the efficiency
<b>4th</b>	1st	Performance test on Francis turbine and to find out the efficiency
	2nd	Performance test on Francis turbine and to find out the efficiency
	3rd	Performance test on Francis turbine and to find out the efficiency
	4th	Performance test on Francis turbine and to find out the efficiency
<b>5th</b>	1st	Performance test on Francis turbine and to find out the efficiency
	2nd	Performance test on Francis turbine and to find out the efficiency
	3rd	Performance test on centrifugal pump and to find out the characteristic curves
	4th	Performance test on centrifugal pump and to find out the characteristic curves

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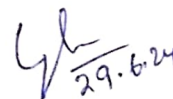
<b>6th</b>	1st	Performance test on centrifugal pump and to find out the characteristic curves
	2nd	Performance test on centrifugal pump and to find out the characteristic curves
	3rd	Performance test on centrifugal pump and to find out the characteristic curves
	4th	Performance test on centrifugal pump and to find out the characteristic curves
<b>7th</b>	1st	Direct operation of single & double acting pneumatic cylinder.
	2nd	Direct operation of single & double acting pneumatic cylinder.
	3rd	Direct operation of single & double acting pneumatic cylinder.
	4th	Direct operation of single & double acting pneumatic cylinder.
<b>8<sup>th</sup></b>	1st	Direct operation of single & double acting pneumatic cylinder.
	2nd	Direct operation of single & double acting pneumatic cylinder.
	3rd	Operating double acting pneumatic cylinder with quick exhaust valve
	4th	Operating double acting pneumatic cylinder with quick exhaust valve
<b>9<sup>th</sup></b>	1st	Operating double acting pneumatic cylinder with quick exhaust valve
	2nd	Operating double acting pneumatic cylinder with quick exhaust valve
	3rd	Operating double acting pneumatic cylinder with quick exhaust valve
	4th	Operating double acting pneumatic cylinder with quick exhaust valve
<b>10<sup>th</sup></b>	1st	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
	2nd	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
	3rd	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
	4th	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
<b>11<sup>th</sup></b>	1st	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
	2nd	Speed control double acting pneumatic cylinder using metering in and metering out circuits.
	3rd	Direct operation of single & double acting hydraulic cylinder
	4th	Direct operation of single & double acting hydraulic cylinder
<b>12<sup>th</sup></b>	1st	Direct operation of single & double acting hydraulic cylinder
	2nd	Direct operation of single & double acting hydraulic cylinder
	3rd	Direct operation of single & double acting hydraulic cylinder
	4th	Direct operation of single & double acting hydraulic cylinder

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<b>13<sup>th</sup></b>	1st	Direct operation of hydraulic motor
	2nd	Direct operation of hydraulic motor
	3rd	Direct operation of hydraulic motor
	4th	Direct operation of hydraulic motor
<b>14<sup>th</sup></b>	1st	Direct operation of hydraulic motor
	2nd	Direct operation of hydraulic motor
	3rd	Speed control double acting hydraulic cylinder using metering in & metering out circuits
	4th	Speed control double acting hydraulic cylinder using metering in & metering out circuits
<b>15<sup>th</sup></b>	1st	Speed control double acting hydraulic cylinder using metering in & metering out circuits
	2nd	Speed control double acting hydraulic cylinder using metering in & metering out circuits
	3rd	Speed control double acting hydraulic cylinder using metering in & metering out circuits
	4th	Speed control double acting hydraulic cylinder using metering in & metering out circuits

  
29.6.24

**Signature of Faculty**