## GOVERNMENT POLYTECHNIC JAJPUR

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## DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN (2022-23)

Discipline: Mechanical	Semester: 4TH	Name of the Teaching faculty: KEDARNATH JENA
Subject: W/S - III (PR-3)	No of Days/Week class alloted: 6	Semester from Date: 14.02.2023 To Date: 23.05.2023  No of weeks: 15
Week	Class Day	Topics
1st	1st (3p), Gr 1	Job in evolving drilling.  i) Aim of the expt  ii) Description of different parts of drilling machine .  iii) Nomenclature of drill bit.
	2nd (3p), Gr 2	Job in evolving drilling.
	1st (3p), Gr 1	Job in evolving drilling.  i) Demonstration of drilling by teacher.  ii) Job cutting by students.
	2nd (3p), Gr 2	Job in evolving drilling.  i) Demonstration of drilling by teacher.  ii) Job cutting by students.
	1st (3p), Gr 1	Job in evolving drilling, i) Drilling operation performed by students on their job.
	2nd (3p), Gr 2	i) Drilling operation performed by students on their job.
2nd	1st (3p), Gr 1	<ul><li>Job in evolving Boring.</li><li>i) Demonstration boring operation by teacher.</li><li>ii) Boring operation performed by students on their drilling job.</li></ul>
	2nd (3p), Gr 2	<ul><li>Job in evolving Boring.</li><li>i) Demonstration boring operation by teacher.</li><li>ii) Boring operation performed by students on their drilling job.</li></ul>
3rd	2nd (3p), Gr 1	Job in evolving drilling and Boring.  Record check, Viva and assessment.
	2nd (3p), Gr 2	Record check, viva and assessment.
	1st (3p), Gr 1	i) Aim of the experiment .  ii) Demonstration an external thread by teacher alongwith the procedure.
		Internal/External threading on Turning jobs

	2nd (3p), Gr 2	i) Aim of the experiment .
		ii) Demonstration an external thread by teacher alongwith the procedure.
	1st (3p), Gr 1	Internal/External threading on Turning jobs
	130 (30), 01 1	i) Job cutting and external tread operation done by students.
	2nd (3p), Gr 2	Internal/External threading on Turning jobs
4th	2110 (59), 01 2	i) Job cutting and external tread operation done by students.
	1st (3p), Gr 1	Internal/External threading on Turning jobs
	15t (5p), Gi 1	i) Job cutting and external tread operation done by students.
	2nd (3p), Gr 2	Internal/External threading on Turning jobs
	2110 (56), 01 2	i) Job cutting and external tread operation done by students.
	1st (3p), Gr 1	Internal/External threading on Turning jobs
	13t (3p), di 1	i) Job cutting and external tread operation done by students.
	2nd (3p), Gr 2	Internal/External threading on Turning jobs
5th	211d (5p), G1 2	i) Job cutting and external tread operation done by students.
Jui	1ct (2n) Cc 1	Internal/External threading on Turning jobs
	1st (3p), Gr 1	Record check, Viva and assessment.
	2nd (2n) C= 2	Internal/External threading on Turning jobs
	2nd (3p), Gr 2	Record check, Viva and assessment.
		Job in evolving use of Capstan and turret lathe
		i) Aim of the expt
	1st (3p), Gr 1	ii) Description of different parts and function of Capsten and turret lathe.
		iii) Demonstrate taper turning and chamfering operation by Capsten
		and Turret lathe
		Job in evolving use of Capstan and turret lathe
c.,		i) Aim of the expt
6th	2nd (3p), Gr 2	ii) Description of different parts and function of Capsten and turret lathe.
		iii) Demonstrate taper turning and chamfering operation by Capsten
		and Turret lathe
	1.10.10.1	Job in evolving use of Capstan and turret lathe
	1st (3p), Gr 1	i) Job cutting and Taper turning, Chamfering operation done by students.
		Joh in evolving use of Capstan and turret lathe
	2nd (3p), Gr 2	i) Job cutting and Taper turning, Chamfering operation done by students.
	1	Job in evolving use of Capstan and turret lathe
	1st (3p), Gr 1	i) Job cutting and Taper turning, Chamfering operation done by students.
	2nd (3p), Gr 2	Job in evolving use of Capstan and turret lathe
		i) Job cutting and Taper turning, Chamfering operation done by students.
7th		Job in evolving use of Capstan and turret lathe
	1st (3p), Gr 1	i) Record check, Viva and assessment.
	2nd (3p), Gr 2	Job in evolving use of Capstan and turret lathe
		i) Record check, Viva and assessment.
	+	Job involving all turning process on MS Rod & Aluminum rod for job
	1st (3p), Gr 1	using CNC Lathe trainer.
		i) Aim of the expt.
		ii) Demonstrate different operations using CNC Lathe Trainer
	1	Job involving all turning process on MS Rod & Aluminum rod for job

ii) Demonstrate different operations using CNC Lathe Trainer.  Job involving all turning process on MS Rod & Aluminum rod for job using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for job using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for job using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for job using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for job using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for Jobs using CNC Lathe trainer.  Job involving all turning process on MS Rod & Aluminum rod for Jobs using CNC Lathe trainer.  Job involving	1	ا ۱۱۵ (۱۹۲) ۱۱۵ ا	i) Aim of the expt.
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9th  1st (3p), Gr 1  1st (3p), Gr 2  2nd (3p), Gr 2  2nd (3p), Gr 2  1st (3p), Gr 1  1st (3p), Gr 1  2nd (3p), Gr 2  3nd (3p), Gr 2  2nd (3p), Gr 2  2nd (3p), Gr 2  3nd (3p), Gr 2  3nd (3p), Gr 2  2nd (3p), Gr 2  3nd (3p),		2nd (3p), Gr 2	using CNC Lathe trainer.
Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  i)Record chech, Viva and assessment  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  i)Record chech, Viva and assessment  Shaper: Preparation of V Block on CI or MS Blocks  i) Alim of the expt  ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.	046		i) Job cutting and different operations performed by students.
1st (3p), Gr 1   using CNC Lathe trainer.   i)Record chech, Viva and assessment     Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.   i)Record chech, Viva and assessment     Shaper: Preparation of V Block on CI or MS Blocks   i) Aim of the expt   ii) Demonstrate and explain the working of Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Aim of the expt   ii) Demonstrate and explain the working of Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Job cutting and prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Job cutting and prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.     Shaper: Preparation of V Block on CI or MS Blocks   i) Prepare V Block by using Shaper machine.	9th		Job involving all turning process on MS Rod & Aluminum rod for jobs
i)Record chech, Viva and assessment  Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer. i)Record chech, Viva and assessment  Shaper: Preparation of V Block on CI or MS Blocks i) Aim of the expt ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Aim of the expt ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) De cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.		1st (3p), Gr 1	
Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.  i)Record chech, Viva and assessment  Shaper: Preparation of V Block on CI or MS Blocks  i) Aim of the expt  ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Aim of the expt  ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.			i)Record chech. Viva and assessment
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10th			i)Record chech, Viva and assessment
ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Aim of the expt ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.			Shaper: Preparation of V Block on CI or MS Blocks
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2nd (3p), Gr 2 i) Aim of the expt ii) Demonstrate and explain the working of Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.			ii) Demonstrate and explain the working of Shaper machine.
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11th  1st (3p), Gr 2 i) Job cutting and prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Record chech, Viva and assessment		13t (5p), di 1	i) Job cutting and prepare V Block by using Shaper machine.
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2nd (3p), Gr 2  Shaper: Preparation of V Block on CI or MS Blocks  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks i) Record chech, Viva and assessment  Shaper: Preparation of V Block on CI or MS Blocks			Shaper: Preparation of V Block on CI or MS Blocks
2nd (3p), Gr 2  i) Prepare V Block by using Shaper machine.  12th  1st (3p), Gr 1  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i)Record chech, Viva and assessment  Shaper: Preparation of V Block on CI or MS Blocks		1st (3p), Gr 1	
2nd (3p), Gr 2  i) Prepare V Block by using Shaper machine.  12th  1st (3p), Gr 1  i) Prepare V Block by using Shaper machine.  Shaper: Preparation of V Block on CI or MS Blocks  i)Record chech, Viva and assessment  Shaper: Preparation of V Block on CI or MS Blocks	12th		Shaper: Preparation of V Block on CI or MS Blocks
12th  1st (3p), Gr 1  Shaper: Preparation of V Block on CI or MS Blocks i)Record chech, Viva and assessment  Shaper: Preparation of V Block on CI or MS Blocks			
1st (3p), Gr 1  i)Record chech, Viva and assessment  Shaper' Preparation of V Block on CL or MS Blocks		1st (3p), Gr 1	
Shaper' Preparation of V Block on CI or MS Blocks			
2nd (2n) Gr ?			
		2nd /2nl Gr 2	

	LZUU WU. VI Z	
	2114 (56), 61 2	i)Record chech, Viva and assessment
		Milling Machine: Preparation of Spur gear on CI or MS round.
	1st (3p), Gr 1	i) Aim of the expt
		ii) Demonstrate and explain the working of Milling machine.
		Milling Machine: Preparation of Spur gear on CI or MS round.
13th	2nd (3p), Gr 2	i) Aim of the expt
1301		ii) Demonstrate and explain the working of Milling machine.
	1st (3p), Gr 1	Milling Machine: Preparation of Spur gear on CI or MS round.
	13t (5p), Gi 1	i) Job prepared by students.
	2nd (3p), Gr 2	Milling Machine: Preparation of Spur gear on CI or MS round.
	211d (3p), di 2	i) Job prepared by students.
	1st (3p), Gr 1	Milling Machine: Preparation of Spur gear on CI or MS round.
	13t (5p), Gi 1	i) Job prepared by students.
	2nd (3p), Gr 2	Milling Machine: Preparation of Spur gear on CI or MS round.
14th	2110 (56), 01 2	i) Job prepared by students.
1401	1st (3p), Gr 1	Milling Machine: Preparation of Spur gear on CI or MS round.
	13t (3p), df 1	i) Job prepared by students.
	2nd (3p), Gr 2	Milling Machine: Preparation of Spur gear on CI or MS round.
	2110 (5p), Gr 2	i) Job prepared by students.
	1st (3p), Gr 1	Milling Machine: Preparation of Spur gear on CI or MS round.
15th	13t (5p), Gi 1	i)Record chech, Viva and assessment
	2nd (3p), Gr 2	Milling Machine: Preparation of Spur gear on CI or MS round.
		i)Record chech, Viva and assessment
	1st (3p), Gr 1	Grand Viva.
	2nd (3p), Gr 2	Grand Viva.

Signature of Faculty

Kedarnoth Jena. Leet in Mechanical