

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 allotted: 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 .
	2nd (3p), Gr 2	Job in evolving drilling.
		i) Aim of the expt
		ii) Description of different parts of drilling machine .
	1st (3p), Gr 1	Job in evolving drilling.
		i) Demonstration of drilling by teacher.
		ii) Job cutting by students.
		Job in evolving drilling.
	2nd (3p), Gr 2	i) Demonstration of drilling by teacher.
		ii) Job cutting by students.
2nd	1st (3p), Gr 1	Job in evolving drilling.
		i) Drilling operation performed by students on their job.
	2nd (3p), Gr 2	Job in evolving drilling.
		i) Drilling operation performed by students on their job.
	1st (3p), Gr 1	Job in evolving Boring.
		i) Demonstration boring operation by teacher.
	ii) Boring operation performed by students on their drilling job.	
	2nd (3p), Gr 2	Job in evolving Boring.
i) Demonstration boring operation by teacher.		
ii) Boring operation performed by students on their drilling job.		
3rd	2nd (3p), Gr 1	Job in evolving drilling and Boring.
		Record check, Viva and assessment.
	2nd (3p), Gr 2	Job in evolving drilling and Boring.
		Record check, Viva and assessment.
	1st (3p), Gr 1	Internal/External threading on Turning jobs
		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.
4th	1st (3p), Gr 1	Internal/External threading on Turning jobs i) Job cutting and external tread operation done by students.
	2nd (3p), Gr 2	Internal/External threading on Turning jobs i) Job cutting and external tread operation done by students.
	1st (3p), Gr 1	Internal/External threading on Turning jobs i) Job cutting and external tread operation done by students.
	2nd (3p), Gr 2	Internal/External threading on Turning jobs i) Job cutting and external tread operation done by students.
5th	1st (3p), Gr 1	Internal/External threading on Turning jobs i) Job cutting and external tread operation done by students.
	2nd (3p), Gr 2	Internal/External threading on Turning jobs i) Job cutting and external tread operation done by students.
	1st (3p), Gr 1	Internal/External threading on Turning jobs Record check, Viva and assessment.
	2nd (3p), Gr 2	Internal/External threading on Turning jobs Record check, Viva and assessment.
6th	1st (3p), Gr 1	Job in evolving use of Capstan and turret lathe i) Aim of the expt ii) Description of different parts and function of Capsten and turret lathe. iii) Demonstrate taper turning and chamfering operation by Capsten and Turret lathe..
	2nd (3p), Gr 2	Job in evolving use of Capstan and turret lathe i) Aim of the expt ii) Description of different parts and function of Capsten and turret lathe. iii) Demonstrate taper turning and chamfering operation by Capsten and Turret lathe..
	1st (3p), Gr 1	Job in evolving use of Capstan and turret lathe 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	1st (3p), Gr 1	Job in evolving use of Capstan and turret lathe 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.
	1st (3p), Gr 1	Job in evolving use of Capstan and turret lathe 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.
	1st (3p), Gr 1	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer. i) Aim of the expt. ii) Demonstrate different operations using CNC Lathe Trainer..
	2nd (3p), Gr 2	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.

8th	2nd (3p), Gr 2	i) Aim of the expt.
		ii) Demonstrate different operations using CNC Lathe Trainer..
	1st (3p), Gr 1	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.
		i) Job cutting and different operations performed by students.
2nd (3p), Gr 2	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.	
	i) Job cutting and different operations performed by students.	
9th	1st (3p), Gr 1	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.
		i) Job cutting and different operations performed by students.
	2nd (3p), Gr 2	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.
		i) Job cutting and different operations performed by students.
	1st (3p), Gr 1	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.
		i) Record check, Viva and assessment
	2nd (3p), Gr 2	Job involving all turning process on MS Rod & Aluminum rod for jobs using CNC Lathe trainer.
		i) Record check, Viva and assessment
10th	1st (3p), Gr 1	Shaper: Preparation of V Block on CI or MS Blocks
		i) Aim of the expt
	2nd (3p), Gr 2	Shaper: Preparation of V Block on CI or MS Blocks
		ii) Demonstrate and explain the working of Shaper machine.
	1st (3p), Gr 1	Shaper: Preparation of V Block on CI or MS Blocks
		i) Job cutting and prepare V Block by using Shaper machine.
	2nd (3p), Gr 2	Shaper: Preparation of V Block on CI or MS Blocks
		i) Job cutting and prepare V Block by using Shaper machine.
11th	1st (3p), Gr 1	Shaper: Preparation of V Block on CI or MS Blocks
		i) Prepare V Block by using Shaper machine.
	2nd (3p), Gr 2	Shaper: Preparation of V Block on CI or MS Blocks
		i) Prepare V Block by using Shaper machine.
	1st (3p), Gr 1	Shaper: Preparation of V Block on CI or MS Blocks
		i) Prepare V Block by using Shaper machine.
	2nd (3p), Gr 2	Shaper: Preparation of V Block on CI or MS Blocks
		i) Prepare V Block by using Shaper machine.
12th	1st (3p), Gr 1	Shaper: Preparation of V Block on CI or MS Blocks
		i) Prepare V Block by using Shaper machine.
	2nd (3p), Gr 2	Shaper: Preparation of V Block on CI or MS Blocks
		i) Prepare V Block by using Shaper machine.
	1st (3p), Gr 1	Shaper: Preparation of V Block on CI or MS Blocks
		i) Record check, Viva and assessment
	2nd (3p), Gr 2	Shaper: Preparation of V Block on CI or MS Blocks

	2nd (3p), Gr 2	i) Record check, Viva and assessment
13th	1st (3p), Gr 1	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Aim of the expt ii) Demonstrate and explain the working of Milling machine.
	2nd (3p), Gr 2	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Aim of the expt ii) Demonstrate and explain the working of Milling machine.
	1st (3p), Gr 1	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Job prepared by students.
	2nd (3p), Gr 2	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Job prepared by students.
14th	1st (3p), Gr 1	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Job prepared by students.
	2nd (3p), Gr 2	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Job prepared by students.
	1st (3p), Gr 1	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Job prepared by students.
	2nd (3p), Gr 2	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Job prepared by students.
15th	1st (3p), Gr 1	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Record check, Viva and assessment
	2nd (3p), Gr 2	Milling Machine : Preparation of Spur gear on CI or MS round.
		i) Record check, Viva and assessment
	1st (3p), Gr 1	Grand Viva.
	2nd (3p), Gr 2	Grand Viva.


 Signature of Faculty
 13.02.23

Kedar Nath Jena.
 Lect. in Mechanical