

GOVERNMENT POLYTECHNIC JAIPUR

A/ P: Ragadi, Block: Korei, Dist.: Jaipur, Odisha- 755019

Website: <https://www.gpjajpur.org> E-mail: principalgpjajpur@yahoo.co.in Contact: 9437155107

DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN (2022-23)

Week	Class Day	Topics
Discipline: Mechanical	Semester: 5th	Name of the Teaching faculty: Manas Kumar Mishra
Subject: SCA	No of Days/Week class allotted: 1	Semester from Date: 15/09/22 To Date: 22/12/22 No of weeks: 16
1st	1st (3p) Gr1+Gr2	Overview of SS i) Definition ii) Importance and criticality LCC, corrosion impact, difference with steel, per capita consumption, growth rates of SS vs other metals, World vs India iii) Various grades of SS and their nomenclature iv) Effect of alloying elements v) Unique characteristics of various grades of SS vi) Quiz Test (Technical)
2nd	1st (3p) Gr1+Gr2	Manufacturing of SS i) process flow ii) raw materials for SS manufacturing iii) functions of each processing unit iv) Downstream facilities v) Various finishes of SS vi) Debate on environmental issues (topic: Sustainability)
3rd	1st (3p) Gr1+Gr2	Physical Metallurgy of SS i) various phases in SS ii) Chromium-Nickel phase diagram iii) Library Studies
4th	1st (3p) Gr1+Gr2	Fabrication and testing of SS I) Various welding methods of SS II) Various cutting techniques of SS iii) Buffing, Bending, Roll forming, Embossing, Polishing iv) Quiz (General Awareness)
5th	1st (3p) Gr1+Gr2	Applications of SS i) Demand of SS in various segments ii) overview of SS in ART segment iii) overview of SS in ABC application iv) overview of SS in process industries v) TEST
6th	1st (3p) Gr1+Gr2	Personality Development i) How to face an interview

Year	1st (3p) Gr1+Gr2	
		ii) Interview related questions
		iii) one to one interview
7th	1st (3p) Gr1+Gr2	i) MOOCS/SWAYAM/NPTEL classes
		ii) Extension lectures if any
		Cultural activities
8th	1st (3p) Gr1+Gr2	i) Essay writing
		ii) song
		iii) A cricket match
9th	1st (3p) Gr1+Gr2	i) Seminar presentation (Technical)
		ii) Report submission
10th	1st (3p) Gr1+Gr2	i) Seminar presentation (Technical)
		ii) Report submission
11th	1st (3p) Gr1+Gr2	i) Seminar presentation (Technical)
		ii) Report submission
12th	1st (3p) Gr1+Gr2	i) Seminar presentation (Technical)
		ii) Report submission
13th	1st (3p) Gr1+Gr2	i) Extension lectures if any
		ii) Poster Presentation
14th	1st (3p) Gr1+Gr2	Team work (Field activity)
15th	1st (3p) Gr1+Gr2	i) MOOCS/SWAYAM/NPTEL classes
		ii) Extension lectures if any

signature of faculty