

GOVERNMENT POLYTECHNIC JAIPUR At/ Po: Ragadi, Block: Korei, Dist.: Jaipur, Odisha- 755019 Website: https://www.gpjajpur.org E-mail: principalgpjajpur@yahoo.co.in Contact: 9437155107		
DEPARTMENT OF MECHANICAL ENGG.		
LESSON PLAN (2026-27)		
Discipline: MECHANICAL	SEMESTER: 3rd	Name of the Teaching faculty: Sushanta Kumar Mohanta
SUBJECT: PR-4(TE-I LAB)	No of Days/Week class allotted: 3	Semester starts from Date: 1.07.2026 To 5.11.2026 weeks: 15
1st	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
	1st(2P) G-1	Flash & Fire point tests using Able's/Cleveland/Pensky Martin Apparatus
	2nd(2P) G-2	Flash & Fire point tests using Able's/Cleveland/Pensky Martin Apparatus
2nd	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
	1st(2P) G-1	Viscosity measurement usi/Saybolt viscometer
	2nd(2P) G-2	Viscosity measurement usi/Saybolt viscometer
	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
4th	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
	1st(2P) G-1	Calorific value tests using Bomb Calorimeter (Solid and Liquid fuels) and Junkers Gas Calorimeter (Gaseous fuels)
	2nd(2P) G-2	Calorific value tests using Bomb Calorimeter (Solid and Liquid fuels) and Junkers Gas Calorimeter (Gaseous fuels)
5th	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
6th	1st(2P) G-1	Carbon residue test using Conradson's apparatus.
	2nd(2P) G-2	Carbon residue test using Conradson's apparatus.
	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
7th	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
	1st(2P) G-1	Assembling and disassembling of I.C. Engines
	2nd(2P) G-2	Assembling and disassembling of I.C. Engines
8th	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
9th	1st(2P) G-1	Port timing diagram of Petrol engine
	2nd(2P) G-2	Port timing diagram of Petrol engine
	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
10th	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
	1st(2P) G-1	Port timing diagram of Diesel engine
	2nd(2P) G-2	Port timing diagram of Diesel engine
11th	1st(2P) G-1	Record Checking, Viva Voce/Sessional
	2nd(2P) G-2	Record Checking, Viva Voce/Sessional
	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
12th	1st(2P) G-1	Valve timing diagram of Petrol engine
	2nd(2P) G-2	Valve timing diagram of Petrol engine
	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
13th	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
	1st(2P) G-1	Valve timing diagram of Diesel engine
	2nd(2P) G-2	Valve timing diagram of Diesel engine
14th	1st(2P) G-1	Record Checking, Viva Voce
	2nd(2P) G-2	Record Checking, Viva Voce
	1st(2P) G-1	Introduction & Theory , Experimental setup
	2nd(2P) G-2	Introduction & Theory , Experimental setup
15th	1st(2P) G-1	Study of petrol and diesel engine components and Models
	2nd(2P) G-2	Study of petrol and diesel engine components and Models
	1st(2P) G-1	Sessional
	2nd(2P) G-2	Sessional

Sushanta Kumar Mohanta
Signature of Faculty

REFERENCES:

1. Thermal Engineering – P.L. Ballaney, Khanna Publishers, 2002
2. A Course in Thermal Engineering – S. Domkundwar & C.P. Kothandaraman, Dhanpat Rai & Publication New Delhi
3. Thermal Engineering – R.S. Khurmi and J.K. Gupta, 18th Edition, S. Chand & Co, New Delhi