GOVERNMENT POLYTECHNIC JAJPUR

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	DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN (24-25)
2.86	LESSON PLAN (24-25)
Semester:4TH	Name of the Teaching faculty: Sushanta Kumar Mohanta
No of	Semester from Date: 04/02/25 To Date: 17/05/25
Days/Week	No of weeks: 15
class	[기 기 시] 그렇게 그 사이 다른 제시를 받았다.
alloted:06	
Class Day	Topics
1st(3p) 2nd(3p)	Study of 2-S, 4-S petrol & diesel engine models
	i) Aim of the expt, Basic theory, parts of engine model
	Study of 2-S, 4-S petrol & diesel engine models
	i) Opearting principle
	(ii) Animations and videos of 2-S and 4-S petrol and diesel engine models.
1st(3p)	Study of 2-S, 4-S petrol & diesel engine models
	i) Record submission and checking
	ii) Viva, assessment
	Verification of Bernoulli's theorem
2nd(3p)	
	i) Aim of the expt, theory, procedure, precautions
	ii) Demonstration to conduct practical
1st(3p)	Verification of Bernoulli's theorem
	i) Machine handling and Precautions ii) Taking readings, Observations table and calculation of the total head of incompressible fluid (ressure
	head+kinetic head+potential head) by students.
	Verification of Bernoulli's theorem
2nd(3p)	i) Record submission and checking
	ii) Viva, assessment
1st(3p)	Determination of Cd from venturimeter
	i) Aim of the expt, theory, procedure, precautions
	ii) Demonstration to conduct practical
3	Determination of Cd from venturimeter
2nd(3p)	i) Machine handling and Precautions
	ii)Taking readings, Observations table and calculation by students
1st(3p) 2nd(3p)	Determination of Cd from venturimeter
	i) Record submission and checking
	ii) Viva, assessment
	Determination of Cc, Cv, Cd from orifice meter
	i) Aim of the expt, theory, procedure, precautions
	ii) Demonstration to conduct practical
1st(3p)	Determination of Cc, Cv, Cd from orifice meter
	i) Machine handling and Precautions
	ii)Taking readings, Observations table and calculation by students
2nd(3p)	Determination of Cc, Cv, Cd from orifice meter
	i) Record submission and checking
	ii) Viva, assessment
1st(3p)	Determination of the brake thermal efficiency of single cylinder petrol engine.
	i) Aim of the expt, theory, procedure, precautions
	ii) Demonstration to conduct practical
	Determination of the brake thermal efficiency of single cylinder petrol engine.
2nd(3p)	i) Machine handling and Precautions
	No of Days/Week class alloted:06

		Determination of the brake thermal efficiency of single cylinder petrol engine.
	Ist(3p)	i) Record submission and checking
Sth		iil Viva, assessment
		Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)
	2nd(3p)	i) Aim of the expt, Basic theory, types of pressure measuring devices
	Contemporaries and the Contemporary of the Con	(ii) Functions of different pressure measuring devices
9th	1st(3p)	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)
		i) Record submission and checking
	2nd(3p)	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)
		ii) Viva, assessment
10th		Determination of the Darcy's coefficient from flow through pipe
	1st(3p)	i) Aim of the expt, theory, procedure, precautions
		ii) Demonstration to conduct practical
		Determination of the Darcy's coefficient from flow through pipe
	2nd(3p)	i) Machine handling and Precautions
	-	ii)Taking readings, Observations table and calculation by students
	1st(3p)	Determination of the Darcy's coefficient from flow through pipe
	12((20)	Record submission and checking Viva, assessment
11th		Determination of the brake thermal efficiency of single cylinder diesel engine.
	2nd(3p)	i) Aim of the expt, theory, procedure, precautions
	,	ii) Demonstration to conduct practical
5		Determination of the brake thermal efficiency of single cylinder diesel engine.
	1st(3p)	i) Machine handling and Precautions
	((-)	ii)Taking readings, Observations table and calculation
12th	-	Determination of the brake thermal efficiency of single cylinder diesel engine.
	2nd(3p)	i) Record submission and checking
		II) Viva, assessment
		Determination of the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test.
_	1st(3p)	i) Aim of the expt, theory, procedure, precautions
13th		ii) Demonstration to conduct practical
		Determination of the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test.
	2nd(3p)	i) Machine handling and Precautions
	-	ii)Taking readings, Observations table and calculation
		Determination of the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test.
	1st(3p)	i) Record submission and checking
14th		ii) Viva, assessment
		Determination of the mechanical efficiency of an air Compressor.
	2nd(3p)	i) Aim of the expt, theory, procedure, precautions
		ii) Demonstration to conduct practical
15th		Determination of the mechanical efficiency of an air Compressor.
	1st(3p)	i) Machine handling and Precautions
	-	ii)Taking readings. Observations table and calculation by students Determination of the mechanical efficiency of an air Compressor.
	3-2/3-1	(Determination of the mechanical efficiency of an air Compressor.
	2nd(3p)	i) Record submission and checking

