GOVERNMENT POLYTECHNIC JAJPUR
At/ Po: Ragadi, Block: Korei, Dist.: Jajpur, Odisha- 755019
DEPARTMENT OF MINING ENGINEERING LESSON PLAN

Discipline: MINING	Semester: 3 rd	Name of the Teaching: Suprava Behera
Subject:	Chote C G1	Somestor starts from Data 24 (20 (2002 - 20 (40 (2002 -
MOM LAB	No of Days/Week class alloted:2	Semester starts from Date: 01/08/2023 To 30/11/2023 No of weeks: 15
Week	Class Day	Topics
1st	1st (3p)	Bernoulli's Theorem by Bernoulli's Verification Apparatus.
		i) Aim of the expt, theory, procedure
		(ii) Details of machine parts, machine handling and precautions
	2nd (3p)	Bernoulli's Theorem by Bernoulli's Verification Apparatus.
		i) setting of machine and how to take readings (Demo)
		ii) taking readings for Bernoulli's Theorem by students
2nd	1st (3p)	Bernoulli's Theorem by Bernoulli's Verification Apparatus.
		i) calculations for Bernoulli's Theorem by students
	2nd (3p)	Bernoulli's Theorem by Bernoulli's Verification Apparatus.
		i) viva, record submission and checking
	1st (3p)	Determine rate of flow through the venturimeter set-up.
		i) Aim of the expt, theory, procedure
2		(ii) Details of machine parts, machine handling and precautions
3rd	2nd (3p)	Determine rate of flow through the venturimeter set-up.
		i) setting of machine and how to take readings (Demo)
		ii) taking readings for Venturimeter by students
4th	1st (3p)	Determine rate of flow through the venturimeter set-up.
		i) calculations for Venturimeter by students
	2nd (3p)	Determine rate of flow through the venturimeter set-up.
		i) viva, record submission and checking
5th	1st (3p)	Conduct tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.
		i) Aim of the expt, theory, procedure
	! 	(ii) Details of machine parts, machine handling and precautions
	2nd (3p)	Conduct tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.
		i) Tools and equipments required
		ii) setting of machine and how to take readings and plot stress-strain curve
éth '	1st (3p)	Conduct tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.
		iii) taking readings for tensile test of a mild steel and plot stress-strain curve by
		Conduct tensile test of a mild steel specimen and plot stress-stain curve, show sallent points on it.
		i) calculations for tensile test of a mild steel specimen by students
71H	1st (3p)	Conduct tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.
		i) viva, record submission and checking
		Determine volumetric efficiency of air- compressor.
	the second secon	i) Aim of the expt, theory, procedure
		(ii) Details of machine parts, machine handling and precautions

	250 (54)	i) setting of machine and how to take readings (Demo)
8th		ii) taking readings for air-compressor by students
	2nd (3p)	Determine volumetric efficiency of air- compressor.
		i) calculations for volumetric efficiency of air- compressor by students
9th	1st (3p)	Determine volumetric efficiency of air- compressor.
		i) viva, record submission and checking
	na praesina	Study of 2-stroke & 4-stroke diesel engines.
	2nd (3p)	i) Aim of the expt, theory, working principle
	 	ii) Animations and videos for working principle 2-stroke and 4-stroke diesel
10th	1st (3p)	Study of 2-stroke & 4-stroke diesel engines.
		i) Details of diesel engine parts and classification
	2nd (3p)	Study of 2-stroke & 4-stroke diesel engines.
		ii) Animations and videos for working principle 2-stroke and 4-stroke diesel
	1st (3p)	Study of 2-stroke & 4-stroke diesel engines.
		i) Demonstarion of experiment
11th		ii) application of 2-stroke & 4-stroke diesel engines.
	2nd (3p)	Study of 2-stroke & 4-stroke diesel engines.
		i) viva, record submission and checking
		Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P.,
12th	1st (3p)	B.H.P. & mechanical
		i) Aim of the expt, theory, procedure
1201	E	Conduct I/C engine testing on single cylinder diesel engine & f:nd out I.H.P.,
	2nd (3p)	B.H.P. & mechanical
		i) Details of diesel engine parts, machine handling and precautions
	1st (3p)	Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P.,
		B.H.P. & mechanical efficiency.
13th		i) setting of machine and how to take readings (Demo)
13011		Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P.,
	2nd (3p)	B.H.P. & mechanical efficiency.
		i) taking readings for single cylinder diesel engine by students
	1	Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P.,
	10+ (2+)	B.H.P. & mechanical efficiency.
14th	1st (3p)	i) calculations for I.H.P., B.H.P. & mechanical efficiency of single cylinder diese
		engine by students
		Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P.,
	2nd (3p)	B.H.P. & mechanical
		i) viva, record submission and checking
. e. i	1st (3p)	i) Doubt clearing, Remedial and leftout practicals
		ii) viva on overall practicals
15th	2nd (3p)	i) Doubt clearing, Remedial and leftout practicals
		ii) viva on overall practicals

Suprava Behera Dt. 31.0723 Signature of Faculty