PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Discipline: Metallurgical Engg. Semester: 3rd.

Name of the Teaching Faculty: Yadabanand Sambit Barik

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Subject: EME No. Of Days/per week class allotted 04

Semester From Date : 01.09.20 To Date : 15.02.21 No. Of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
2.9.20	Force	Force	force Types of loadings Beams	
4.9.20	S.F. BM	SF. BM	Shear force Bending moment	
5.9.20	SFD BMD for cantilever	SFD, BMD for Cantilever.	Shear force Diagram Bending Moment Diagram	
7.9.20	Simply supported beam	Simply supported Beam	SFD, BMD of Simply supported beam	
9.9.20	Point load	Point load	Simply supported beam with point load.	
11.9.20	Simply supported beam with UDL	Simply supported beam with UDL	Simply supported beam with UDL	
12.9.20	Stresses of loaded beam	Stresses of loaded beam	Stresses of loaded beam.	
14.9.20	Simple problems	Simple problems	Problem practice	
16.9.20	Problems	Problems	Problems.	
19.9.20	Machine	Machine	Defination of m/c	
21.9.20	Mechanism	Mechanism	Mechanism definition.	
23.9.20	Kinematics	Kinematics	Kinematics defination	

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Subject: FME No. Of Days/per week class allotted 04

Semester From Date : 01.09.20 To Date : 15.02.21 No. Of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
26.9.20	Link	Link	Link definition.	YS Bank
28.9.20	Kinematic pairs, kinematic chain	Kinematic pairs kinematic chain	Kinematic pairs kinematic chain	YS Bank
30.9.20	4-bar linkage	4-bar linkage	4-bar linkage	YS Bank
3.10.20	Crank - Connecting rod	Crank - Connecting rod	Crank Connecting rod.	YS Bank
5.10.20	Quick return mechanism	Quick Return mechanism	Quick Return mechanism Details.	YS Bank
7.10.20	Cam	Cam	Cam and cam followers.	YS Bank
10.10.20	Belt drives	Belt drives	Belt drives types.	YS Bank
12.10.20	Length of open belt drive	length of open belt drive	Determination of length of open belt drive	YS Bank
14.10.20	Ratio of tension Power transmitted	Ratio of tension & Power transmitted	Ratio of tension & Power transmitted by belt drive	YS Bank
16.10.20	Rope & Chain drive	Rope & Chain drive	Rope & chain drive types.	YS Bank
17.10.20	Advantages	Advantages	Advantages of Rope & Chain.	YS Bank
19.10.20	Breaks & Bearings	Break & Bearings	Break & Bearing types.	YS Bank

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Subject: EMF No. Of Days/per week class allotted 04

Semester From Date : 01.09.20 To Date : 15.02.21 No. Of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
21.10.20	Dynamometer	Dynamometer	Break & Dynamometer. working principle	
2.11.20	Bearings	Bearings	Types of Bearing.	
4.11.20	Thermodynamics	Thermodynamics	Thermodynamics Heat & work	
6.11.20	Heat & work	Heat & work	Relation between Heat & work	
7.11.20	Compression of gas	compression of gas	work done by compression of	
2.12.20	Expansion of gas	Expansion of gas	Work done by Expansion of gas	
4.12.20	Steam	Steam	Properties of steam.	
5.12.20	Steam table	Steam table	Use of steam table	
7.12.20	Boiler & turbine	Boiler & turbine	Boiler & turbine defn. types.	
9.12.20	Boiler function	Boiler function	Boiler functions.	
12.12.20	Fire tube boiler	Fire tube boiler	Fire tube boiler diagram, details	
14.12.20	Water tube boiler	Water tube boiler	Diagram, function, details	

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
16.12.20	Steam turbine	Steam turbines	Steam turbines defn types, function.	
18.12.20	Types of steam turbine	Types of steam turbine	Types of steam turbine	
19.12.20	Impulse turbine	Impulse turbine	Impulse turbine parts, operation.	
21.12.20	Working of Impulse turbine	Working of Impulse turbine	Working principle of impulse turbine	
23.12.20	Reaction turbine	Reaction turbine	Reaction turbine Diagram, parts.	
26.12.20	Working of Reaction turbine	Working of Reaction turbine	Working principle of Reaction turbine.	
28.12.20	I.C. engines	I.C. engines	Internal Combustion engines defn.	
30.12.20	Classify I.C. engine	Classification of I.C. engine	Defn & Types I.C engines	
02.01.21	Otto cycle & diesel cycle	Otto cycle Diesel cycle	Otto cycle Diesel cycles	
6.1.21	2 stroke engine	2 stroke engine	2 stroke engine details	
8.1.21	4-stroke engine	4 stroke engine	4 stroke engine principles.	
9.1.21	Power, Break power efficiency	Power, Break Power efficiency.	Power Break Power efficiency.	

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11.1.21	A.C	A.C.	Air conditioning & application	[illegible]
13.1.21	RAC	RAC	RAC defn	[illegible]
16.1.21	Vapour compression refrigeration system	Vapour compression refrigeration system	Simple vapour compression refrigeration system	[illegible]
18.1.21	Refrigerant	Refrigerants	Types of Refrigerant.	[illegible]
20.1.21	Properties	Properties	Properties of Refrigerants.	[illegible]
22.1.21	A.C, wtt room A.C.	A.C. wtt room A.C	Air conditioning with reference to room A.C.	[illegible]
25.1.21	M/C tool	M/C tool	Machine tools. defn examples	[illegible]
27.1.21	Types of m/c tool	Types of m/c tool	types of m/c tool.	[illegible]
29.1.21	Lathe	Lathe	Lathe diagram, parts use	[illegible]
30.1.21	Drill, Shaper	Drill shaper	Drill details Shaper details.	[illegible]
1.2.21	Milling & grinding	Milling Grinding	Milling & grinding use.	[illegible]
3.2.21	CNC milling CNC turning	CNC milling CNC turning	CNC milling CNC turning	[illegible]

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