Name of the teaching faculty: Er. RajendraMohanty Semester: 6th Management No. of periods per week: 4 End semester exam: 80 Total Marks : 100 Department: Mechanical Engineering Subject: Industrial Engineering &

Total Periods: 60 Class test: 20

SI.	Week	Period	Topic to be covered
No.			
1.	<b>1</b> <sup>st</sup>	<b>1</b> <sup>st</sup>	About Industrial Engineering & Management
2.		2 <sup>nd</sup>	Selection of Site of Industry.
3.		3 <sup>rd</sup>	Define plant layout.
4.		4 <sup>th</sup>	Describe the objective and principles of plant layout.
5.	2 <sup>nd</sup>	<b>1</b> <sup>st</sup>	Explain Process Layout, Product Layout and Combination Layout.
6.		2 <sup>nd</sup>	Do
7.		3 <sup>rd</sup>	Techniques to improve layout.
8.		4 <sup>th</sup>	Principles of material handling equipment.
9.	3 <sup>rd</sup>	1 <sup>st</sup>	Describe Plant maintenance.
10.		2 <sup>nd</sup>	Do
11.		3 <sup>rd</sup>	Introduction to Operations Research and its applications.
12.		4 <sup>th</sup>	Do
13.	4 <sup>th</sup>	<b>1</b> <sup>st</sup>	Define LPP
14.		2 <sup>nd</sup>	Solution of L.P.P. by graphical method.
15.		3 <sup>rd</sup>	Evaluation of Project completion time by Critical Path Method and PERT
16.		4 <sup>th</sup>	Do
17.	5 <sup>th</sup>	<b>1</b> <sup>st</sup>	Do
18.		2 <sup>nd</sup>	Explain about features of PERT W.R.T CPM
19.		3 <sup>rd</sup>	Solve some numerical
20.		4 <sup>th</sup>	DO
21.	6 <sup>th</sup>	1 <sup>st</sup>	Classification of inventory.
22.		2 <sup>nd</sup>	Objective of inventory control.
23.		3 <sup>rd</sup>	Describe the functions of inventories.
24.		4 <sup>th</sup>	Benefits of inventory control.
25.	<b>7</b> <sup>th</sup>	1 <sup>st</sup>	Costs associated with inventory
26.		<b>2</b> <sup>nd</sup>	Terminology in inventory control
27.		3 <sup>rd</sup>	Derive economic order quantity for Basic model.
28.		4 <sup>th</sup>	Solve numerical.
29.	8 <sup>th</sup>	1 <sup>st</sup>	Define and Explain ABC analysis.
30.		2 <sup>nd</sup>	DO
31.		3 <sup>rd</sup>	Define Inspection and Quality control.
32.		4 <sup>th</sup>	Describe planning of inspection.
33.	<b>9</b> <sup>th</sup>	<b>1</b> <sup>st</sup>	Describe types of inspection.

r	1	nd	
34.		2 <sup>nd</sup>	Advantages and disadvantages of quality control.
35.		3 <sup>rd</sup>	Study of factors influencing the quality of manufacture.
36.		4 <sup>th</sup>	Explain the Concept of statistical quality control,
37.	10 <sup>th</sup>	1 <sup>st</sup>	Control charts((X, R,P and C - charts).
38.		2 <sup>nd</sup>	Methods of attributes.
39.		3 <sup>rd</sup>	Concept of ISO 9001-2008.
40.		4 <sup>th</sup>	Quality management system,
41.	11 <sup>th</sup>	1 <sup>st</sup>	Registration /certification procedure.
42.		2 <sup>nd</sup>	Benefits of ISO to the organization.
43.		3 <sup>rd</sup>	JIT, Six sigma,7S, Lean manufacturing
44.		4 <sup>th</sup>	DO
45.	12 <sup>th</sup>	<b>1</b> <sup>st</sup>	Solve related problems.
46.		2 <sup>nd</sup>	Introduction
47.		3 <sup>rd</sup>	Major functions of production planning and control
48.		4 <sup>th</sup>	DO
49.	13 <sup>th</sup>	1 <sup>st</sup>	Methods of forecasting
50.		2 <sup>nd</sup>	DO
51.		3 <sup>rd</sup>	Routing
52.		4 <sup>th</sup>	Scheduling
53.	14 <sup>th</sup>	1 <sup>st</sup>	Dispatching
54.		2 <sup>nd</sup>	Controlling
55.		3 <sup>rd</sup>	Types of production
56.		4 <sup>th</sup>	Mass production
57.	15 <sup>th</sup>	1 <sup>st</sup>	Batch production
58.		2 <sup>nd</sup>	Job order production
59.		3 <sup>rd</sup>	Principles of product and process planning.
60.		4 <sup>th</sup>	DO

**RAJENDRA MOHANTY** 

Name of the teaching faculty: Er. Amiya Ranjan Patra Semester: 6th No. of periods per week: 4 End semester exam: 80 Total Marks : 100 Department: Mechanical Engineering Subject: Automobile Engg. & Hybrid Vehicles Total Periods: 60 Class test: 20

SI.	Week	Period	Topic to be covered
No.	_ st	- st	
1.	1 <sup>st</sup>	1 <sup>st</sup>	Automobiles: Definition, need and classification:
2.	-	2 <sup>nd</sup>	Layout of automobile chassis
3.	-	3 <sup>rd</sup>	with major components (Line diagram)
4.		<b>4</b> <sup>th</sup>	Clutch System: Need, Types (Single & Multiple)
5.	2 <sup>nd</sup>	1 <sup>st</sup>	Working principle with sketch
6.		2 <sup>nd</sup>	Gear Box: Purpose of gear box, Construction
7.		3 <sup>rd</sup>	working of a 4 speed gear box
8.		4 <sup>th</sup>	Concept of automatic gear changing mechanisms
9.	3 <sup>rd</sup>	<b>1</b> <sup>st</sup>	do
10.		2 <sup>nd</sup>	Propeller shaft: Constructional features
11.		3 <sup>rd</sup>	Differential: Need, Types
12.		4 <sup>th</sup>	Working principle
13.	4 <sup>th</sup>	1 <sup>st</sup>	Braking systems in automobiles: Need and types
14.		2 <sup>nd</sup>	Mechanical Brake
15.		3 <sup>rd</sup>	Hydraulic Brake
16.		4 <sup>th</sup>	Air Brake, Air assisted Hydraulic Brake
17.	5 <sup>th</sup>	<b>1</b> <sup>st</sup>	Vacuum Brake
18.		2 <sup>nd</sup>	Describe the Battery ignition
19.		3 <sup>rd</sup>	Magnet ignition system
20.		4 <sup>th</sup>	Spark plugs: Purpose, construction and specifications
21.	6 <sup>th</sup>	<b>1</b> <sup>st</sup>	State the common ignition troubles and its remedies
22.		2 <sup>nd</sup>	Description of the conventional suspension system for Rear and Front
			axle
23.		3 <sup>rd</sup>	Do
24.		4 <sup>th</sup>	Description of independent suspension system used in cars
25.	7 <sup>th</sup>	<b>1</b> <sup>st</sup>	coil spring and tensionbars
26.		2 <sup>nd</sup>	Constructional features and working of a telescopic shock absorber
27.		3 <sup>rd</sup>	Do
28.		4 <sup>th</sup>	Engine cooling: Need and classification
29.	8 <sup>th</sup>	<b>1</b> <sup>st</sup>	Describe defects of cooling and their remedial measures
30.		2 <sup>nd</sup>	Do
31.	1	3 <sup>rd</sup>	Describe the Function of lubrication
32.	1	4 <sup>th</sup>	Describe the lubrication System of I.C. engine
33.	9 <sup>th</sup>	1 <sup>st</sup>	Do
34.	1	2 <sup>nd</sup>	Do

35.		3 <sup>rd</sup>	Describe Air fuel ratio
36.		4 <sup>th</sup>	Do
37.	10 <sup>th</sup>	1 <sup>st</sup>	Describe Carburetion process for Petrol Engine
38.		2 <sup>nd</sup>	Do
39.		3 <sup>rd</sup>	Describe Multipoint fuel injection system for Petrol Engine
40.		4 <sup>th</sup>	Do
41.	11 <sup>th</sup>	1 <sup>st</sup>	working principle of fuel injection system for multi cylinder Engine
42.		2 <sup>nd</sup>	Filter for Diesel engine
43.		3 <sup>rd</sup>	working principle of Fuel feed pump
44.		4 <sup>th</sup>	Fuel Injector for Diesel engine
45.	12 <sup>th</sup>	1 <sup>st</sup>	ELECTRIC AND HYBRID VEHICLES
46.		2 <sup>nd</sup>	Introduction, Social and Environmental importance of Hybrid
47.		3 <sup>rd</sup>	Description of Electric Vehicles
48.		4 <sup>th</sup>	operational advantages, present performance
49.	13 <sup>th</sup>	1 <sup>st</sup>	applications of Electric Vehicles
50.		2 <sup>nd</sup>	Battery for Electric Vehicles
51.		3 <sup>rd</sup>	Do
52.		4 <sup>th</sup>	Battery for Electric Vehicles, Battery types and fuel cells.
53.	14 <sup>th</sup>	1 <sup>st</sup>	Do
54.		2 <sup>nd</sup>	Hybrid vehicles, Types of Hybrid and Electric Vehicles: Parallel, Series,
			Parallel
55.		3 <sup>rd</sup>	Do
56.		4 <sup>th</sup>	Do
57.	15 <sup>th</sup>	1 <sup>st</sup>	Series configurations; Drive train
58.		2 <sup>nd</sup>	Do
59.		3 <sup>rd</sup>	Solar powered vehicles
60.		4 <sup>th</sup>	Do

AMIYA RANJAN PATRA

Name of the teaching faculty: Er. RajendraMohanty Semester: 6th No. of periods per week: 4 End semester exam: 80 Total Marks : 100 Department: Mechanical Engineering Subject: Power Station Engineering Total Periods: 60 Class test: 20

SI.	Week	Period	Topic to be covered
No.			
1.	<b>1</b> <sup>st</sup>	1 <sup>st</sup>	About Power Station Engineering
2.		2 <sup>nd</sup>	Describe sources of energy.
3.		3 <sup>rd</sup>	Do
4.		4 <sup>th</sup>	Explain concept of Central and Captive power station.
5.	2 <sup>nd</sup>	1 <sup>st</sup>	Classify power plants.
6.		2 <sup>nd</sup>	Layout of steam power stations.
7.		3 <sup>rd</sup>	Explain about carnotvapour power cycle
8.		4 <sup>th</sup>	Do
9.	3 <sup>rd</sup>	1 <sup>st</sup>	Explain about Rankine vapour power cycle
10.		2 <sup>nd</sup>	Do
11.		3 <sup>rd</sup>	Do
12.		4 <sup>th</sup>	Solved Simple Problems.
13.	4 <sup>th</sup>	1 <sup>st</sup>	Do
14.		2 <sup>nd</sup>	Do
15.		3 <sup>rd</sup>	List of thermal power stations in the state with their capacities.
16.		4 <sup>th</sup>	About Boiler Accessories
17.	5 <sup>th</sup>	1 <sup>st</sup>	Do
18.		<b>2</b> <sup>nd</sup>	Do
19.		3 <sup>rd</sup>	Do
20.		4 <sup>th</sup>	Explain Boiler Draught System
21.	6 <sup>th</sup>	1 <sup>st</sup>	About Steam Prime Mover
22.		<b>2</b> <sup>nd</sup>	Do
23.		3 <sup>rd</sup>	About Condenser
24.		4 <sup>th</sup>	Do
25.	<b>7</b> <sup>th</sup>	1 <sup>st</sup>	Selection of site for thermal power stations.
26.		<b>2</b> <sup>nd</sup>	About Nuclear Power Station
27.		3 <sup>rd</sup>	Classify nuclear fuel
28.		4 <sup>th</sup>	Explain fusion and fission reaction.
29.	8 <sup>th</sup>	1 <sup>st</sup>	Explain working of nuclear power plants with block diagram
30.		2 <sup>nd</sup>	Explain the working and construction of nuclear reactor
31.		3 <sup>rd</sup>	Do
32.		4 <sup>th</sup>	Do
33.	9 <sup>th</sup>	1 <sup>st</sup>	Compare the nuclear and thermal plants.
34.		2 <sup>nd</sup>	Explain the disposal of nuclear waste

35.		3 <sup>rd</sup>	Selection of site for nuclear power stations & It list of Presnt
36.		4 <sup>th</sup>	About Diesel Electric Power Station
37.	10 <sup>th</sup>	1 <sup>st</sup>	State the advantages and disadvantages of diesel electric power
			stations.
38.		2 <sup>nd</sup>	Explain briefly different systems of diesel electric power stations
39.		3 <sup>rd</sup>	Do
40.		4 <sup>th</sup>	Do
41.	11 <sup>th</sup>	1 <sup>st</sup>	Do
42.		2 <sup>nd</sup>	Do
43.		3 <sup>rd</sup>	Selection of site for diesel electric power stations.
44.		4 <sup>th</sup>	Performance and thermal efficiency of diesel electric power stations
45.	12 <sup>th</sup>	1 <sup>st</sup>	Do
46.		2 <sup>nd</sup>	About Gas Turbine Power Station
47.		3 <sup>rd</sup>	Selection of site & Fuels for gas turbine stations.
48.		4 <sup>th</sup>	Elements of simple gas turbine power plants
49.	13 <sup>th</sup>	1 <sup>st</sup>	Do
50.		2 <sup>nd</sup>	Merits, demerits and application of gas turbine power plants.
51.		3 <sup>rd</sup>	About Hydel Power Station
52.		4 <sup>th</sup>	State advantages and disadvantages of hydroelectric power plant.
53.	14 <sup>th</sup>	1 <sup>st</sup>	Classification of hydroelectric Power Station
54.		2 <sup>nd</sup>	explain the general arrangement of storage type hydroelectric project.
55.		3 <sup>rd</sup>	explain its operation.
56.		4 <sup>th</sup>	Do
57.	15 <sup>th</sup>	1 <sup>st</sup>	List of hydro power stations with their capacities and number of units
			in the state.
58.		2 <sup>nd</sup>	Selection of site of hydel power plant.
59.		3 <sup>rd</sup>	Types of turbines and generation used.
60.		4 <sup>th</sup>	Solve simple problems

**RAJENDRA MOHANTY** 

Name of the teaching faculty: Er. Dibyajyoti Panda Semester: 6th No. of periods per week: 4 End semester exam: 80 Total Marks : 100 Department: Mechanical Engineering Subject: Advance Manufacturing Process Total Periods: 60 Class test: 20

SI.	Week	Period	Topic to be covered
No.			
1.	<b>1</b> <sup>st</sup>	1 <sup>st</sup>	Introduction – comparison with traditional machining
2.		2 <sup>nd</sup>	Ultrasonic Machining: principle, Description of equipment, applications
3.		3 <sup>rd</sup>	Do
4.		4 <sup>th</sup>	Described Electric Discharge Machining Process
5.	2 <sup>nd</sup>	1 <sup>st</sup>	Do
6.		2 <sup>nd</sup>	Do
7.		3 <sup>rd</sup>	Wire cut EDM: Principle, applications
8.		4 <sup>th</sup>	Do
9.	3 <sup>rd</sup>	1 <sup>st</sup>	Do
10.		2 <sup>nd</sup>	Explained Abrasive Jet Machining & application.
11.		3 <sup>rd</sup>	Do
12.		4 <sup>th</sup>	Explained Laser Beam Machining & application.
13.	4 <sup>th</sup>	1 <sup>st</sup>	Do
14.		2 <sup>nd</sup>	Explained Electro Chemical Machining & application.
15.		3 <sup>rd</sup>	Do
16.		4 <sup>th</sup>	Explained Plasma Arc Machining & Applications
17.	5 <sup>th</sup>	<b>1</b> <sup>st</sup>	Do
18.		2 <sup>nd</sup>	Electron Beam Machining
19.		3 <sup>rd</sup>	Do
20.		4 <sup>th</sup>	Processing of plastics.
21.	6 <sup>th</sup>	1 <sup>st</sup>	Introduction – comparison with traditional machining
22.		2 <sup>nd</sup>	Ultrasonic Machining: principle, Description of equipment, applications
23.		3 <sup>rd</sup>	Do
24.		4 <sup>th</sup>	Described Electric Discharge Machining Process
25.	<b>7</b> <sup>th</sup>	1 <sup>st</sup>	Do
26.		2 <sup>nd</sup>	Do
27.		3 <sup>rd</sup>	Wire cut EDM: Principle, applications
28.		4 <sup>th</sup>	Do
29.	8 <sup>th</sup>	1 <sup>st</sup>	Do
30.		2 <sup>nd</sup>	Explained Abrasive Jet Machining & application.
31.		3 <sup>rd</sup>	Do
32.		4 <sup>th</sup>	Explained Laser Beam Machining & application.
33.	9 <sup>th</sup>	<b>1</b> <sup>st</sup>	Do
34.		2 <sup>nd</sup>	Explained Electro Chemical Machining & application.

35.		3 <sup>rd</sup>	Do
36.		4 <sup>th</sup>	Explained Plasma Arc Machining & Applications
37.	10 <sup>th</sup>	1 <sup>st</sup>	Do
38.		2 <sup>nd</sup>	Do
39.		3 <sup>rd</sup>	Application AM
40.		4 <sup>th</sup>	Do
41.	11 <sup>th</sup>	1 <sup>st</sup>	Web Based Rapid Prototyping Systems
42.		2 <sup>nd</sup>	Do
43.		3 <sup>rd</sup>	Concept of FM process, concurrent tool, production tool
44.		4 <sup>th</sup>	Rapid prototyping process
45.	12 <sup>th</sup>	1 <sup>st</sup>	Concept of SPM
46.		2 <sup>nd</sup>	General elements of SPM
47.		3 <sup>rd</sup>	Do
48.		4 <sup>th</sup>	Productivity improvement by SPM
49.	13 <sup>th</sup>	1 <sup>st</sup>	Do
50.		2 <sup>nd</sup>	Principles of SPM design
51.		3 <sup>rd</sup>	Do
52.		4 <sup>th</sup>	Types of maintenance
53.	14 <sup>th</sup>	1 <sup>st</sup>	Do
54.		2 <sup>nd</sup>	Types of maintenance, Repair cycle analysis,
55.		3 <sup>rd</sup>	Repair complexity, Maintenance manual,
56.		4 <sup>th</sup>	Do
57.	15 <sup>th</sup>	1 <sup>st</sup>	Maintenance records, Housekeeping.
58.		2 <sup>nd</sup>	Introduction to Total Productive Maintenance (TPM).
59.		3 <sup>rd</sup>	Do
60.		4 <sup>th</sup>	Do

DIBYAJYOTI PANDA

Name of the teaching faculty: Er. AMIYA RANJAN PATRADepartment: Mechanical EngineeringSemester: 6thSubject: Automobile Engineering LabNo. of periods per week: 4Total Periods: 60End semester exam: 50Sessiona I: 50Total Marks: 100

SI.	Week	Period	Topic to be covered
No.			
1.	1 <sup>st</sup>	<b>1</b> <sup>st</sup>	Study of Automobile chassis.
2.		2 <sup>nd</sup>	Do
3.		3 <sup>rd</sup>	Do
4.		4 <sup>th</sup>	Do
5.	2 <sup>nd</sup>	<b>1</b> <sup>st</sup>	Do
6.		2 <sup>nd</sup>	Do
7.		3 <sup>rd</sup>	Do
8.		4 <sup>th</sup>	Study the differential mechanism of the Tractor.
9.	3 <sup>rd</sup>	1 <sup>st</sup>	Do
10.		2 <sup>nd</sup>	Do
11.		3 <sup>rd</sup>	Do
12.		4 <sup>th</sup>	Do
13.	4 <sup>th</sup>	1 <sup>st</sup>	Do
14.		2 <sup>nd</sup>	Do
15.		3 <sup>rd</sup>	Do
16.		4 <sup>th</sup>	Study the hydraulic braking system of automobile.
17.	<b>5</b> <sup>th</sup>	<b>1</b> <sup>st</sup>	Do
18.		2 <sup>nd</sup>	Do
19.		3 <sup>rd</sup>	Do
20.		4 <sup>th</sup>	Do
21.	6 <sup>th</sup>	1 <sup>st</sup>	Do
22.		2 <sup>nd</sup>	Do
23.		3 <sup>rd</sup>	Do
24.		4 <sup>th</sup>	Study the cut section model of carburetorsolex typeand maruti car
			type.
25.	<b>7</b> <sup>th</sup>	<b>1</b> <sup>st</sup>	Do
26.		2 <sup>nd</sup>	Do
27.		3 <sup>rd</sup>	Do
28.		4 <sup>th</sup>	Do
29.	8 <sup>th</sup>	<b>1</b> <sup>st</sup>	Do
30.		2 <sup>nd</sup>	Do
31.		3 <sup>rd</sup>	Do
32.		4 <sup>th</sup>	Do

33.	9 <sup>th</sup>	1 <sup>st</sup>	Study the fuel pump cut section model.
34.		2 <sup>nd</sup>	Do
35.		3 <sup>rd</sup>	Do
36.		4 <sup>th</sup>	Do
37.	10 <sup>th</sup>	1 <sup>st</sup>	Do
38.		2 <sup>nd</sup>	Do
39.		3 <sup>rd</sup>	Do
40.		4 <sup>th</sup>	Do
41.	11 <sup>th</sup>	1 <sup>st</sup>	Study the actual cut section of gear box.
42.		2 <sup>nd</sup>	Do
43.		3 <sup>rd</sup>	Do
44.		4 <sup>th</sup>	Do
45.	12 <sup>th</sup>	<b>1</b> <sup>st</sup>	Do
46.		2 <sup>nd</sup>	Do
47.		3 <sup>rd</sup>	Do
48.		4 <sup>th</sup>	Do
49.	13 <sup>th</sup>	1 <sup>st</sup>	Do
50.		2 <sup>nd</sup>	Study of actual car engine.
51.		3 <sup>rd</sup>	Do
52.		4 <sup>th</sup>	Do
53.	14 <sup>th</sup>	1 <sup>st</sup>	Do
54.		2 <sup>nd</sup>	Do
55.		3 <sup>rd</sup>	Do
56.		<b>4</b> <sup>th</sup>	Do
57.	15 <sup>th</sup>	1 <sup>st</sup>	Do
58.		2 <sup>nd</sup>	Do
59.		3 <sup>rd</sup>	Do
60.		4 <sup>th</sup>	Do

AMIYA RANJAN PATRA

Name of the teaching faculty: Er. Arun Kumar Panigrahi Department: Mechanical Engineering Semester: 6th No. of periods per week: 4 End semester exam: 50 Total Marks: 75

Subject: Power Station Engineering Lab **Total Periods: 60** Sessional: 25

SI.	Week	Period	Topic to be covered
No.			
1.	1 <sup>st</sup>	1 <sup>st</sup>	To study the modern steam power plant with model.
2.		2 <sup>nd</sup>	Do
3.		3 <sup>rd</sup>	Do
4.		4 <sup>th</sup>	Do
5.	2 <sup>nd</sup>	1 <sup>st</sup>	Do
6.		2 <sup>nd</sup>	Do
7.		3 <sup>rd</sup>	To determine the various efficiencies of steam turbine.
8.		4 <sup>th</sup>	Do
9.	3 <sup>rd</sup>	1 <sup>st</sup>	Do
10.		2 <sup>nd</sup>	Do
11.		3 <sup>rd</sup>	Do
12.		4 <sup>th</sup>	Do
13.	4 <sup>th</sup>	1 <sup>st</sup>	Do
14.		2 <sup>nd</sup>	Do
15.		3 <sup>rd</sup>	To study the cooling tower.
16.		4 <sup>th</sup>	Do
17.	<b>5</b> <sup>th</sup>	1 <sup>st</sup>	Do
18.		2 <sup>nd</sup>	Do
19.		3 <sup>rd</sup>	Do
20.		4 <sup>th</sup>	Do
21.	6 <sup>th</sup>	1 <sup>st</sup>	Do
22.		2 <sup>nd</sup>	Do
23.		3 <sup>rd</sup>	Study of jet condenser
24.		4 <sup>th</sup>	Do
25.	<b>7</b> <sup>th</sup>	1 <sup>st</sup>	Do
26.		2 <sup>nd</sup>	Do
27.		3 <sup>rd</sup>	Do
28.		4 <sup>th</sup>	Do
29.	8 <sup>th</sup>	1 <sup>st</sup>	Do
30.		2 <sup>nd</sup>	Do
31.		3 <sup>rd</sup>	Study of De-lavel turbine
32.		4 <sup>th</sup>	Do
33.	9 <sup>th</sup>	<b>1</b> <sup>st</sup>	Do

34.		2 <sup>nd</sup>	Do
35.		3 <sup>rd</sup>	Do
36.		4 <sup>th</sup>	Do
37.	10 <sup>th</sup>	1 <sup>st</sup>	To study the spring loaded safety valve.
38.		2 <sup>nd</sup>	Do
39.		3 <sup>rd</sup>	Do
40.		4 <sup>th</sup>	Do
41.	11 <sup>th</sup>	1 <sup>st</sup>	Do
42.		2 <sup>nd</sup>	Do
43.		3 <sup>rd</sup>	To study the steam generators (boilers)models.
44.		4 <sup>th</sup>	Lancashire boiler
45.	12 <sup>th</sup>	1 <sup>st</sup>	Do
46.		2 <sup>nd</sup>	Do
47.		3 <sup>rd</sup>	Do
48.		4 <sup>th</sup>	Do
49.	13 <sup>th</sup>	1 <sup>st</sup>	Cornish boiler
50.		2 <sup>nd</sup>	Do
51.		3 <sup>rd</sup>	Do
52.		4 <sup>th</sup>	Do
53.	14 <sup>th</sup>	1 <sup>st</sup>	Babcock & Wilcox Boiler
54.		2 <sup>nd</sup>	Do
55.		3 <sup>rd</sup>	Do
56.		4 <sup>th</sup>	Do
57.	15 <sup>th</sup>	1 <sup>st</sup>	Vertical water tube boiler.
58.		2 <sup>nd</sup>	Do
59.		3 <sup>rd</sup>	Do
60.		4 <sup>th</sup>	Do

AMIYA RANJAN PATRA

Name of the teaching faculty: Er. RajendraMohanty Semester: 6th No. of periods per week: 2 Sessional: 25 Department: Mechanical Engineering Subject: Life Skill Total Periods: 30

SL.No.	WEEK	PERIOD	Students Practical Assignment
1.	1 <sup>st</sup>	2	Analyse SWOT (Strength weakness
2.	2 <sup>nd</sup>	2	opportunity & Threats)
3.	3 <sup>rd</sup>	2	True life problem solution
4.	4 <sup>th</sup>	2	Like visit villages and know their different
5.	5 <sup>th</sup>	2	issues
6.	6 <sup>th</sup>	2	Team Work
7.	7 <sup>th</sup>	2	
8.	8 <sup>th</sup>	2	1. Tree plantation with gardening
9.	9 <sup>th</sup>	2	2. Blood donation camp
10.	10 <sup>th</sup>	2	3. Help to poor people
11.	11 <sup>th</sup>	2	Mock Interview
12.	12 <sup>th</sup>	2	
13.	13 <sup>th</sup>	2	Group Discussion (Global Warming,
			Pollution, Traffic Rule, Gender Balancing)
14.	14 <sup>th</sup>	2	Task Management
15.	15 <sup>th</sup>	2	Prepare a report on overall task

The lesson plan prepared by the concerned faculty

**RAJENDRA MOHANTY**