GOVERNMENT POLYTECHNIC COLLEGE, KOTA (RAJ.)

DESIGNATION: Sr. Lecturer(Elecrical)

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT C EE 210 SUBJECT NAME: ENTREPRENEURSHIP AND MANAGEMENT

FACULTY N Hitendra Kumar Sharma

TOPIC	LEGELDE	MONTHS IN	ACTUAL	REASON FOR NOT	E-
TOPIC	LECTURE	WHICH THE	DATE OF	COVERING THE TOPIC IN	CONTENTS
	DD A CETA	TOPIC WILL	COVERING	DUE TIME	PROVIDED
	PRACTIC	BE COVERED			ТО
	AL CLASSES		TOPIC		STUDENTS
	REQUIRE				RELATED TO TOPIC
	D TO				10 10110
	COVER				
	TOPIC				
Principles of					
Management,	1	Aug-15			
Scientific management :	1	Aug-15			
Types of ownership,	1	Aug-15			
Types of organisation,	1	Aug-15			
Importance of human	1	Sep-15			
Entrepreneurship:					
Role of entrepreneurship	1	Sep-15			
New industrial	1	Sep-15			
Product identification/	1	Sep-15			
Institutional support	1	Sep-15			
Entrepreneurship					
Role of District	1	Sep-15			
Function of NSIC, SISI,	2	Sep-15			
Role of state finance	1	Oct-15			
Setting up SSI :	1				
	4	Oct-15			
Registration of	1	Oct-15			
Structure of	1				
Raw Material	1	Oct-15			
Allotment of iron and	1	Oct-15			
Allotment of other	1	Oct-15			
Allotment of imported	1	Oct-15			
Marketing Facilities:					
	1	Oct-15			
Supply of product to	1	Oct-15			
Participation in	1	Nov-15			
Quality consciousness	1	Nov-15			
Financial Sources for					
Various institutions		Nov-15			
providing loans for					
industries, Various types					
of loans Subsidies	1				
Contracts and Tenders:					
Type of		Nov-15			
contracts, Necessity of	1				
Contract and		Nov-15			
Tendering procedure	1	1404-10			
Project Report:		Nov-15			
Procedure of preparing a	1	NOV-15			

Preparation of project	1	Nov-15		
ISO: 9000 Series of				
Definition of few	1	Nov-15		
Various models for	1	Nov-15		
Various elements of ISO	1	Dec-15		
Benefits by becoming an	1	Dec-15		
Human Resources				
Introduction, object and	1	Dec-15		
Recruitment, sources	1	Dec-15		
Wages and Incentives:				
Definition and	1	Jan-16		
Wage incentives - type	1	Jan-16		
Marketing Management				
Concept of	1	Jan-16		
Distribution channels	1	Jan-16		
Tax System and				
Idea of income tax, sales	1	Jan-16		
Industrial and fire	1	Jan-16		
Labour Legislation and	1	Jan-16		
Industrial acts : factory	1	Jan-16		
Apprentices act	1	Feb-16		
Water pollution contract	1	Feb-16		
Environmental	2	Feb-16		
Revision	14	Feb-mar-16		

GOVERNMENT POLYTECHNIC COLLEGE, KOTA (RAJ.)

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : EE310 SUBJECT NAME : Energy management

FACULTY NAME : Hitendra kumar Sharma DESIGNATION : Sr. Lecturer.(Electrical)

racult i Name . Intellula kulliai Sharila . Designation . Sr. Lecturer.(Electrical)					
TOPIC	LECTURE / PRACTICAL CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Energy Management and Energy Planning:					
Definitions and Significance, Energy Strategy, Energy Policy and Energy Planning	1	Aug-15			
Two Sides of Energy Management, Sectors of Supply Side Energy Management	1	Aug-15			
Objectives of Energy Management, Hierarchical Levels of Sup Side Energy Management	2	Aug-15			
Trade-off between Energy and Environment,Finery- and Energy Planning	1	Sep-15			
Energy and Economy, Essential Imperatives and Steps in Supply Side Energy Planning	1	Sep-15			
Energy Planning Flow for Supply Side,Essential Data for Supply-side Energy Planning,Per Capita Energy Consumption	1	Sep-15			
Essential Imperatives and Steps in User Side Energy Planning	1	Sep-15			
Energy Management and Control Systems (EMCs or EMS) for Demand Side	1	Sep-15			
Energy Management in End-User Plan,Seven Principles of Energy Management,Energy Policy of a Supply Organization and Demand Side Organization	2	Sep-15			
Energy Policy of a Demand Side Organization (Energy Consumer),Organization for Energy Management	2	Sep-15			
Energy and Power Management:					
Overview of India's Energy and Power Sector,National Energy Strategies of India,National Energy Strategies of India	1	Sep-15			
Primary Energy Sources for Power Generation and Electric Power Sector Planning in India	1	Oct-15			

India's Nonconventional, Renewable arid		Oct-15		
Alternate Energy Planning,Rural	1			
Electrification Programs in India	'			
Economic Reforms in Energy and Power		Oct-15		
Sector, Energy Consumption Trends in India,				
Integrated Estimates				
Integrated Estimates	1			
Energy Conservation Measures under 9th Five		Oct-15		
Year Plan, Per Capita Availability of				
Commercial Energy Resources, Reserve to				
Production Ratio (R/P)	_			
	2			
Per Capita Availability of Commercial Energy		Oct-15		
Resources, Reserve to Production Ratio (R/P)				
	1			
Energy Audit :			+	
		0+45		
Aim of Energy Audit, Energy flow		Oct-15		
diagram,Strategy of Energy Audit	1			
Comparison with Standards, Energy		Oct-15	 	
Management Team, Considerations in				
		1		
Implementing Energy Conservation				
programmes	1			
Periodic progress review,Instruments for		Oct-15	1	
energy audit,Energy Audit of illumination				
system	2			
Energy audit of electrical system, Energy audit		Nov-15	 	
		1404-13		
of Heating, ventilation and Air conditioning				
systems				
	2			
Energy audit of compressed air system, Energy		Nov-15		
audit of buildings, Energy Audit of steam				
Generation, Distribution and utilization				
system,Economic analysis				
	2			
Energy Conversation:		1		
Introduction,Motivation for Energy		Nov-15	1	
Conservation, Principles of Energy		1		
Conservation Conservation	1	1		
	1	Nov-15	 	
Energy Conservation planning, Energy		1404-13		
Conservation in following sectors		1		
Industries, Electrical Generation, Transmission		1		
and distribution		1		
	2	1		
Household and commercial		Nov-15		
sectors,Transport,Agriculture	1	1		
	1	No. 45	 	
Energy Conservation Legislation,		Nov-15		
	1	1		
Environmental Aspects of Energy and				
Pollution Control:		1		
		Dec-15	+ +	
Introduction, Motivation for Energy		Dec-19		
Conservation, Principles of Energy				
Conservation	1	1		

Terms and Definitions,Pollution from use of		Dec-15	
energy,Combustion products of fossil fuels			
	1		
Particulate matter,Fabric filter and		Dec-15	
Baghouse,Electro-static precipitator			
(ESP),Carbon Dioxide	2		
Green house effect and Global		Dec-15	
arming,Emission of Carbon Monoxide	2		
Pollution by Sulphur dioxide (SO2) and		Jan-16	
Hydrogen Sulphide H2S	1		
Emission of Nitrogn Oxides, Acide Rains,		Jan-16	
Acid Snow, Acidic Fog and Dry Acidic			
Deposits,Acid Fog	2		
Dry Acidic Deposition,FGD and SCR Systems		Jan-16	
of Cleaning Flue Gases			
	2		
Energy and Sustainable Development:			
Introduction,Motivation for Energy		Jan-16	
Conservation, Principles of Energy			
Conservation, Energy problems	2		
Energy use trends in Developing		Jan-16	
countries,Prospects of changes in Energy			
supply,Agenda for Sustainable development	•		
2	2	Mar-16	
Revision	12	เงเลา-าช	

GOVERNMENT POLYTECHNIC COLLEGE, KOTA (RAJ.)

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : **EE304** SUBJECT NAME : **ELECTRICAL DESIGN AND DRAWING**FACULTY NAME : **Hitendra kumar Sharma** DESIGNATION : **SR LECTURER**

TAGGETT NAME : Tillellula kulliai Sila			220.0	WATION . SK LEC	TUKEK
TOPIC	CLASSES REQUIRED	MONTHS IN WHICH THE	DATE OF	REASON FOR NOT COVERING THE TOPIC	E- CONTENTS
	TO COVER TOPIC	TOPIC WILL BE	OF THE	IN DUE TIME	PROVIDED TO
		COVERED	TOPIC		STUDENTS RELATED
					TO TOPIC
Transformer Design :		Aug-15			
Single phase and three-phase core type distribution transformer		Aug-15			
distribution transformer	1				
Single phase shell type transformer	2	Aug-15			
Output equation	1	Aug-15			
Main dimension of frame	2	Sep-15			
Core design and winding design	2	Sep-15			
Design of Winding:	1	Sep-15			
Definition of -Single and double layer winding	2	Sep-15			
Full pitch and short pitch winding	1	Sep-15			
Integral and fractional winding	1	Oct-15			
Developed winding diagrams of single		Oct-15			
phase and three-phase induction motors	2				
Developed winding diagrams of		Oct-15			
alternators	2				
D.C. Machine Design:					
Choice of specific magnetic and specific electric loading		Oct-15			
	1				
Output equation (Armature Design)	2	Oct-15			
Calculation of main dimensions,		Nov-15			
Output coefficients	2				
Choice of number of poles, Design of		Nov-15			
shunt field winding	1				
3-Phase Induction Motor Design :					
4.1 Choice of specific magnetic and specific electric loading	4	Nov-15			
4.2 Output equations	1	Nov-15			
-1.2 Output equations	1				
4.3 Calculation of main dimensions	2	Nov-15			
4.4 Relation between D and L		Nov-15			
A.C. Disc. of the contract of	1	Doc 45			
4.5 Effect of length of air gap on motor performance	1	Dec-15			
4.6 Calculation of no load current	2	Dec-15			
1					

Simple Alarm and Signal Circuits:				
Simple Alaim and Signar Circuits.		+		
		Jan-16		1
Using contactors, designing and drawing		Jan-10		
schematic and wiring diagrams of alarm				
and signal circuits. Circuits should involve				
use of switches, push buttons, bells,				
indicating light which are used in offices,				
hospitals, hotels and buses etc.				
	4			
Contactor Control Circuits :		1 1		
The circuit should incorporate remote		Jan-16		
control, interlocking,				
	1			
D.O.L starter,Star-Delta starter,Rotor		Jan-16		
resistance and reversing starters.	2			
	2	1 10		
Contactor control schematic and wring		Jan-16		
diagram for speed reversing of motors.				
	1			
Contactor control schematic and wring		Jan-16		
diagram for fast and slow speeds of				
motors.	1			
Contactor control schematic and wiring		Feb-16		
diagram of sequential operation of motors.				
	1			
Control of pump motor with water level		Feb-16		
indicators.	1			
panel wiring diagram for the following	_	Feb-16		
with usual protective devices and				
showing the various equipment with				
suitable ranges -Synchronization and				
parallel operation of 3-phase alternators				
paramer operation of 3-phase alternators				
	2			
A.C. 3-phase squirrel cage induction		Feb-16		
motor.A.C. 3-phase slip ring induction				
motor.				
	2			
Parallel operation of three phase		Feb-16		
transformers,D.C. compound generator	1			
Parallel operation of D.C. compound		Feb-16	+	1
generators				
<u> </u>	1	Man 40		
Revision	12	Mar-16		