

COURSE NAME : ELECTRICAL ENGINEERING GROUP
COURSE CODE : EE/EP
SEMESTER : FIFTH
SUBJECT TITLE : ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL PROJECT
SUBJECT CODE :

Teaching and Examination Scheme:

Teaching Scheme			Examination Scheme					
TH	TU	PR	PAPER HRS.	TH	PR	OR	TW	TOTAL
01	01	02	--	--	--	--	25@	25

- External

@ - Internal

* On Line Examination

NOTE:

- One theory and one tutorial hour are for Entrepreneurship Development (EDP)
- Twenty-five marks for term work are for Entrepreneurship Development (EDP)
- Two clock hours for industrial project

Part A: Entrepreneurship Development

Rationale:

Globalization, liberalization & privatization along with revolution in Information Technology, have thrown up new opportunities that are transforming lives of the masses. Talented and enterprising personalities are exploring such opportunities & translating opportunities into business ventures such as- BPO, Contract Manufacturing, Trading, Service sectors etc. The student community also needs to explore the emerging opportunities. It is therefore necessary to inculcate the entrepreneurial values during their educational tenure. This will help the younger generation in changing their attitude and take the challenging growth oriented tasks instead of waiting for white-collar jobs. This subject will help in developing the awareness and interest in entrepreneurship and create employment for others.

Objectives:

Students will be able to

- 1) Identify entrepreneurship opportunity.
- 2) Acquire entrepreneurial values and attitude.
- 3) Use the information to prepare project report for business venture.
- 4) Develop awareness about enterprise management.

Learning Structure:

Application

Use basic concepts, principles, and procedures related to

Procedure

Information gathering for opportunity
Product / Service Finalization as Business Opportunity
Project report preparation & Project execution

Concepts and Principles

Information Gathering, Opportunity Identification, Formulation of Business Plan, Running Enterprise successfully- Planning Resources, Enterprise, Budgeting, Study modern trends in business

Facts

Entrepreneur, Entrepreneurial Processes, Motivation, Barriers, Business Plan, Small Scale Enterprises,

Topic	Name of Topic	Hours
01	Entrepreneurship, Creativity & Opportunities <ul style="list-style-type: none"> • Concept, Classification & Characteristics of Entrepreneur • Creativity and Risk taking, Risk Situation, Types of risk & risk takers. • Business Reforms. • Process of Liberalization. • Reform Policies. • Impact of Liberalization. • Emerging high growth areas. • Business Idea Methods and techniques to generate business idea. • Transforming Ideas in to opportunities transformation involves • Assessment of idea & Feasibility of opportunity • SWOT Analysis 	03
02	Information and Support Systems <ul style="list-style-type: none"> • Information Needed and Their Sources: • Information related to project, Information related to support system, Information related to procedures and formalities • Support Systems • Small Scale Business Planning, Requirements. • Govt. & Institutional Agencies, Formalities • Statutory Requirements and Agencies. 	02
03	Market Assessment <ul style="list-style-type: none"> • Marketing -Concept and Importance • Market Identification, Survey Key components • Market Assessment 	02
04	Business Finance & Accounts <ul style="list-style-type: none"> ➤ Business Finance <ul style="list-style-type: none"> • Cost of Project • Sources of Finance • Assessment of working capital • Product costing • Profitability • Break Even Analysis • Financial Ratios and Significance ➤ Business Account <ul style="list-style-type: none"> • Accounting Principles, Methodology • Book Keeping • Financial Statements • Concept of Audit, 	03

05	Business Plan & Project Report <ul style="list-style-type: none"> • Business plan steps involved from concept to commissioning Activity Recourses, Time, Cost • Project Report • Meaning and Importance • Components of project report/profile (Give list) 	03
06	Enterprise Management And Modern Trends <ul style="list-style-type: none"> ➤ Enterprise Management: <ul style="list-style-type: none"> • Essential roles of Entrepreneur in managing enterprise • Product Cycle: Concept and importance • Probable Causes Of Sickness • Quality Assurance: Importance of Quality, Importance of testing • E-Commerce: Concept and Process ➤ Global Entrepreneur <ul style="list-style-type: none"> • Assess yourself-are you an entrepreneur? • Prepare project report and study its feasibility. 	03

List of Assignments:

1. Write the SWOT Analysis required for an successful entrepreneur.
2. Collect the required information, formalities and supporting systems for starting a small scale business.
3. Collect information regarding key parameters required for market analysis of an electrical industry.
4. Search for current available sources of finance to start a new business and write a report.
5. Write a report on different accounting methods, financial statements and audit.
6. Write a report on preparing a good business plan.
7. Collect information on E-commerce system and write a report on how it is useful for entrepreneurs.
8. Prepare a report on how to become a successful entrepreneur?

Learning Resources:

1) Books:

Sr.No	Author	Title	Publisher
1	J.S. Saini B.S.Rathore	Entrepreneurship Theory and Practice	Wheeler Publisher, New Delhi
2	Prepared by Colombo plan staff college for Technician Education.	Entrepreneurship Development	Tata Mc Graw Hill Publishing co. ltd. New Delhi.

3	J.B.Patel D.G.Allampally	A Manual on How to Prepare a Project Report	EDI STUDY MATERIAL Near Village Bhat , Via Ahmadabad Airport & Indira Bridge, P.O. Bhat 382428 , Gujrat,India P.H. (079) 3969163, 3969153 E-mail : ediindia@sancharnet.in / olpe@ediindia.org Website : http://www.ediindia.org
4	Gautam Jain Debmuni Gupta	New Initiatives in Entrepreneurship Education & Training	
5	Schaper, Michael Volery	Entrepreneurship-Small Business	Wiley India,2011
6	Alpana, Trehan	Entrepreneurship	Dreamtech, 2011

2) Video Cassettes:

No	Subject	Source
1	Five success Stories of First Generation Entrepreneurs	EDI STUDY MATERIAL Ahmadabad (Near Village Bhat , Via Ahmadabad Airport & Indira Bridge), P.O. Bhat 382428 , Gujrat,India P.H. (079) 3969163, 3969153 E-mail : ediindia@sancharnet.in / olpe@ediindia.org Website : http://www.ediindia.org
2	Assessing Entrepreneurial Competencies	
3	Business Opportunity Selection and Guidance	
4	Planning for completion & Growth	
5	Problem solving-An Entrepreneur skill	

PART B) Industrial Project

Following activities related to project are required to be dealt with, during this semester

1. Form project batches & allot project guide to each batch. (Max. 4 students per batch)
2. Each project batch should select topic / problem / work by consulting the guide & / or industry. Topic / Problem / work should be approved by Head of department.
3. Each project batch should prepare action plan of project activities & submit the same to respective guide.
4. At the end of semester, each project batch should submit the action plan and abstract of the project along with list of materials required if project involves fabrication or other facilities required in other kinds of project.
5. Action Plan should be part of the project report.
6. Each group member shall write assignments on the action plan prepared for the project for this semester (half of the project work). The assessment of the assignments will be considered for next semester as a total term work.

Group	Project
01	<ul style="list-style-type: none"> (1) Design of Illumination Scheme(Up to 20 KW) for Hospital / Shopping Mall/Cinema Theatre/Commercial Complex/Educational Institute/Industrial Complex. (2) Design of Rural Electrification Scheme for small Village, Colony. (3) Case Studies Related to Industries – Operation / Maintenance / Repair and Fault Finding. (4) Substation Model (Scaled) (5) Wind Turbine Model (Scaled) (6) Pole Mounted Substation Model (Scaled) (7) Industrial Automation (8) Non-conventional Energy Hybrid Models
02	<ul style="list-style-type: none"> (1) Rewinding of Three Phase/Single Phase Induction Motor. (2) Rewinding of Single Phase Transformer. (3) Fabrication of Inverter up to 1000 VA. (4) Fabrication of Battery Charger. (5) Fabrication of Small Wind Energy System for Battery Charging. (6) Fabrication of Solar Panel System for Battery Charging. (7) Microprocessor/ Micro controller Based Projects. (8) PC Based Projects. (9) Simulation/ Automation Projects
03	<ul style="list-style-type: none"> (1) Case study on Energy Conservation & Audit (2) Case Study on Design schemes of lighting, transformers, motors, power system, protection system (3) Case study on improvement, modification, advancement in existing systems or technologies (4) Case study on latest techniques like insulation technology, digital systems, fibre optics, silicon technology, nanotechnology etc.