

COURSE CODE : EP/EE
SEMESTER : SIXTH
SUBJECT TITLE : INDUSTRIAL PROJECTS
SUBJECT CODE : --

Teaching and Examination Scheme:

Teaching Scheme			Examination Scheme						
TH	TU	PR	PAPER HRS	TH	TEST	PR	OR	TW	TOTAL
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Note :- Actual work of project should be done, on the project selected in fifth semester.

Rationale:

Diploma holders need to be capable of doing self study throughout their life as the technology is developing with fast rate. Student will be able to find out various sources of technical information and develop self-study techniques to prepare a project and write a project report.

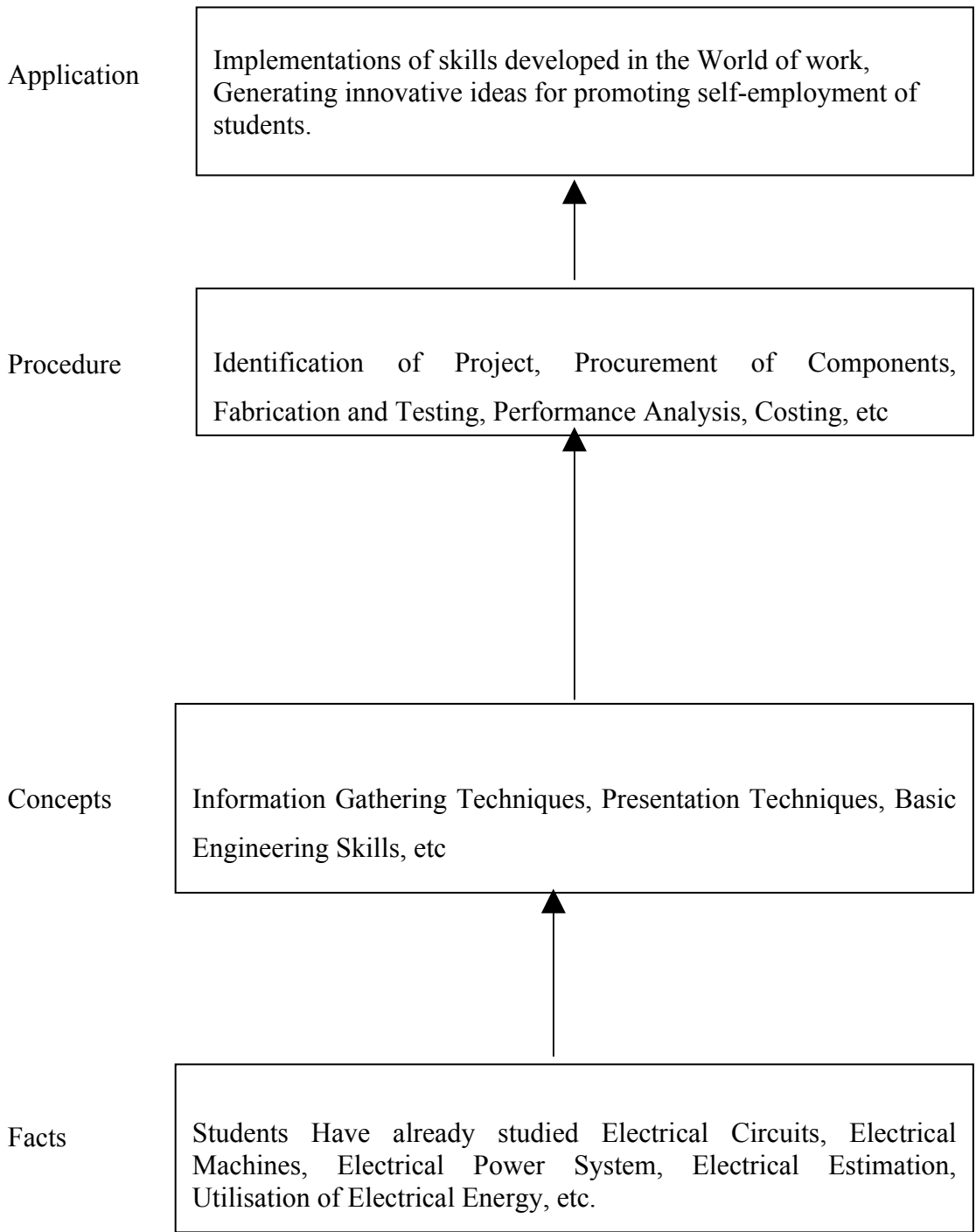
This subject is intended to teach students to understand facts, concepts and techniques of electrical equipments, its repairs, fault finding and testing, estimation of cost and procurement of material, fabrication and manufacturing of various items used in electrical field. This will help the students to acquire skills and attitudes so as to discharge the function of supervisor in industry and can start his own small-scale enterprise.

Objectives:

The students will be able to,

1. Work in Groups, Plan the work, and Coordinate the work.
2. Develop leadership qualities.
3. Analyse the different types of Case studies.
4. Develop Innovative ideas.
5. Develop basic technical Skills by hands on experience.
6. Write project report.
7. Develop skills to use latest technology in Electrical field.

Learning Structure:



Contents:

Two hours should be allotted for giving the Instructions for preparing a Project Report.
(Refer Guideline Document for Format of Project Report)

Projects
<ol 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. (Refer Guideline Document).4. Energy Conservation and Audit.5. Substation Model (Scaled)6. Wind Turbine Model (Scaled)7. Pole Mounted Substation Model (Scaled)<ol style="list-style-type: none">8. Rewinding of Three Phase/Single Phase Induction Motor.9. Rewinding of Single Phase Transformer.10. Fabrication of Inverter up to 1000 VA.11. Fabrication of Battery Charger.12. Fabrication of Small Wind Energy System for Battery Charging.13. Fabrication of Solar Panel System for Battery Charging.14. Microprocessor/ Micro controller Based Projects.15. PC Based Projects.16. Simulation Projects.
<p style="text-align: center;">Seminar</p> <p style="text-align: center;">Seminar on any relevant latest technical topic based on latest research, recent trends, new methods and developments in the field of Electrical Engineering / Power Electronics.</p>

Note: (1) One Project (2) Seminar will be held under Professional Practices.

Learning Resources:

1. Books/Magazines:

Sr. No.	Name of the Magazine
1.	IEEE Transactions/Journals
2.	Electrical India
3.	IEEMA Journal
4.	Elecrama
5.	Technorama
6.	Urja
7.	Industrial Automation
8.	Electronics for You
9.	Electronics Projects
10.	Computer World
11.	Chip
12.	Any Journal Related to Electrical Engg./Electronics/Computer/Information Technology

2. Website:

Using any search engine, such as <http://www.google.co.in/> the relevant information can be searched on the Internet.