Course Name: Electrical Engineering Group

Course Code : EE / EP

Subject Title: Professional Practices-I

: Third

Subject Code: 17024

Semester

Teaching and Examination Scheme:

Teaching Scheme		Examination Scheme						
TH	TU	PR	PAPER HRS	TH	PR	OR	TW	TOTAL
		03					50@	50

Notes 1: The teachers are encouraged to develop a "Speakers Bank", a list of various experts from Industry and Educational Institutes who can speak on different topics. Similarly they should also prepare a directory of various nearby industries from their branch of Engineering, for the student's visits. Preferably, the students should visit the industries in a batch of not more than 20.Where possible, the polytechnics should encourage the students to visit nearby industries during winter or summer vacations, for a period of 1 to 2 weeks and prepare a detail report and this can be included in the report of "Industrial Visit" in Professional Practice, scheduled for the next semester.

Rationale:

In the changing world scenario, the Diploma Engineers are expected to acquire various skills which include ability to communicate effectively, to present a topic, to share ideas, to prepare reports etc. and shape up their own personality. They are also expected to acquire technical information on various topics related to their branch of study, in addition to the various subjects included in their curriculum.

These acquired skills and enhanced confidence level are going to help them get a good job, based on personal interviews and aptitude tests.

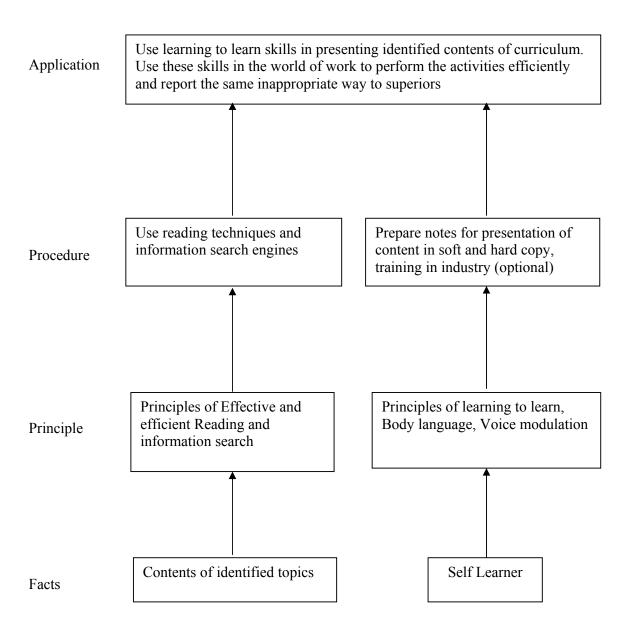
Visits to various nearby industries, lectures on technical subjects by experts, seminars on variety of subjects, group discussion, browsing internet and collection of information, preparing reports are some of the activities suggested under Professional Practice.

General Objectives:

Student will be able to:

- 1. Acquire information from different sources.
- 2. Prepare notes for given topic.
- 3. Present given topic in a seminar.
- 4. Interact with peers to share thoughts.
- 5. Prepare a report on industrial visit, expert lecture.

Learning Structure:



Topic and Contents	Hours		
Topic 1:			
Specific Objectives:			
Make student aware about industrial atmosphere			
Understand the general working of an industry			
Structured industrial visits be arranged and report of the same should be submitted by the			
individual student, to form a part of the term work.			
Following are the suggested type of Industries/ Fields – (Minimum three visits).			
Contents:	14		
1.1 Industrial Visits:			
i) Visit to 110/33/11kv sub- station (Compulsory)			
ii) Visit to transformer manufacturing industry.			
iii) Visit to electronics industry.			
iv) Visit to hydro-electric/ thermal power plant (Compulsory)			
v) Visit to non conventional power generation station-wind /solar power.			
vi) Visit to multi storied building for the study of electrical installations			
Topics 2:			
Specific Objectives:			
Students will get feel of new technology introduced in industry			
> Get introduced to recent development in technology			
Contents:			
Lectures by Professional / Industrial Expert to be organized on any Two topics of			
the following suggested areas or any other suitable topics:			
	10		
i) Role of Power Factor Improvement a tool in reducing cost of generation.			
ii) New trends to built pollution free environment.			
iii) Software for drafting.			
iv) Special purpose wiring in chemical/hazardous industries.			
v) Non conventional energy sources with special focus on use of biomass, solid			
vi) waste.			
vii) Automotive wiring & lightning.			
viii) viii) Effect of transmission and distribution losses on cost of energy generation.			
Topic 3: Information Search			
The students should collect information individually and write a report/prepare a note on			
the any one from below given topics as part of term work. Any other topic for			
information search may be selected by the faculty members. Some of the suggested			
topics are -	06		
a) Electrical wiring accessories	00		
b) Elevators installation and operation			
c) Street Light accessories and factures			
d) Alternative fuels and energy options.			
e) Collection of data for comparison of transformer companies.			
Topic 4. Group Discussion:			
The students should discuss in group of four to six students and write a brief report on the			
any one from below given topics as part of term work. Any other topic for group			
discussions may be selected by the faculty members. Some of the suggested topics are -	0.0		
and the substitute of the subs	08		
i) Electrically operated motor cars and scooters/motor bikes.			
ii) Load shading and remedial measures.			
iii) Safety in day to day life.			

iv) Conventional and non-conventional energy sources	
v) Electrical energy conservation.	
vi) Pollution control (All types).	
Topic 5. Seminar: The students should select a topic for Seminar based on recent developments & emerging technologies in Electrical & electronics engineering field. Each student shall submit a report of at least 06 pages and deliver a seminar (Presentation time – 10 minutes).	10
Total	48