

**COURSE NAME : ELECTRICAL ENGINEERING GROUP**  
**COURSE CODE : EE/EP**  
**SEMESTER : FIFTH**  
**OBJECT TITLE : PROFESSIONAL PRACTICES - V**  
**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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**Rationale:**

Most of the diploma holders join industries. Due to globalization and competition in the industrial and service sectors the selection for the job is based on campus interviews or competitive tests.

While selecting candidates a normal practice adopted is to see general confidence, ability to communicate and attitude, in addition to basic technological concepts.

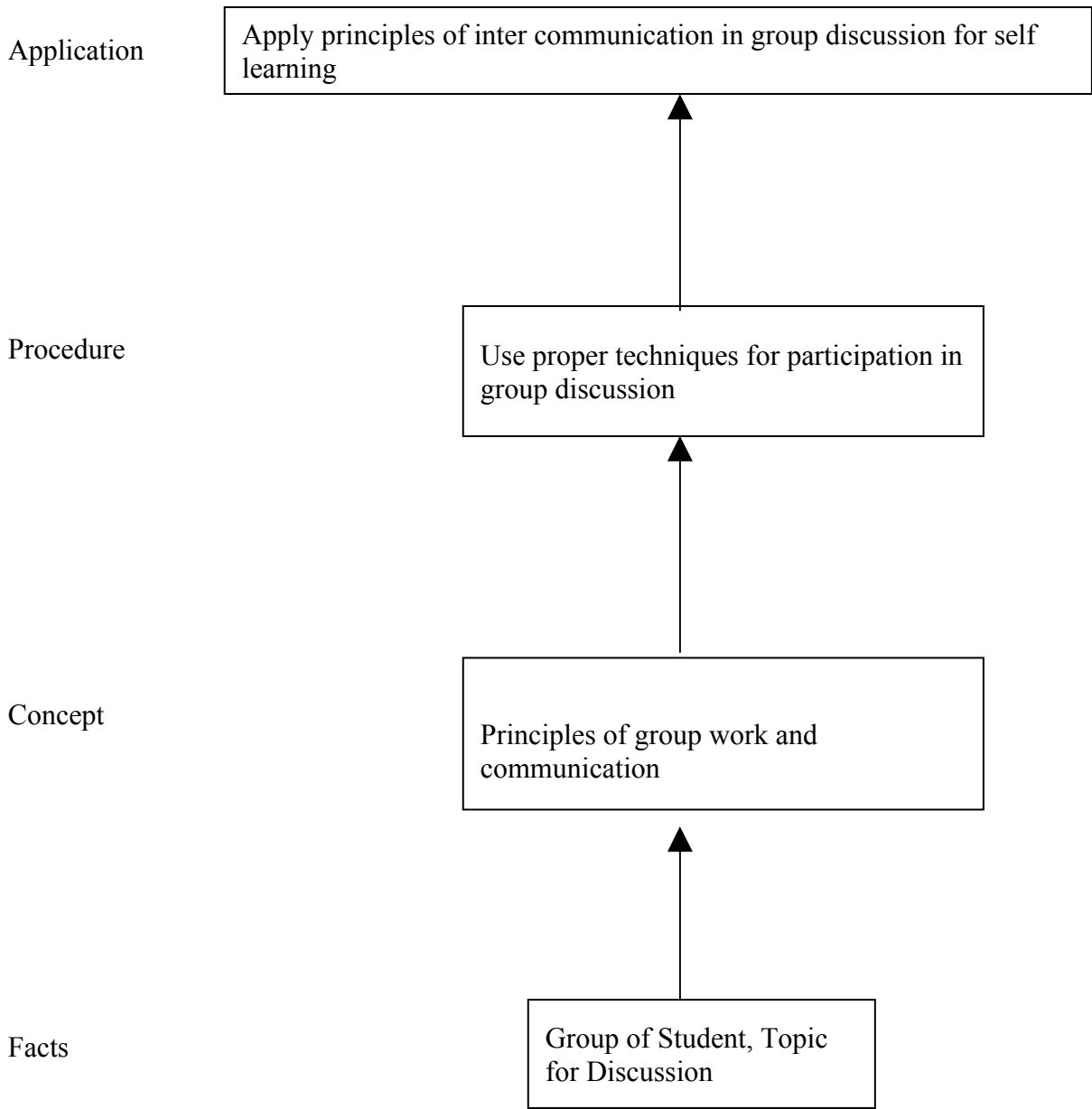
The purpose of introducing professional practices is to provide opportunity to students to undergo activities which will enable them to develop confidence. Industrial visits, expert lectures, seminars on technical topics and group discussion are planned in a semester so that there will be increased participation of students in learning process.

**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:**



Activity	Content	Hours
1	<p><b>Industrial Visits</b>            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 -</p> <ul style="list-style-type: none"> <li>i) Visit to Electrical Machine Manufacturing Industry.</li> <li>ii) Visit to a Foundry to see Furnaces and Ovens.</li> <li>iii) Visit to L &amp; T LT Switchgear Laboratory at Pune.</li> <li>iv) Visit to Railway Station to study operation of Signaling system.</li> <li>v) Visit to Loco shed or EMW at Nashik.</li> <li>vi) Visit to Large Industry to study Protection Schemes.</li> <li>vii) Any Industry having Automation for manufacturing Processes.</li> </ul>	28
2	<p><b>The Guest Lecture/s from field/industry experts, professionals to be arranged minimum 3 Lectures each of two hours from the following or alike topics. The brief report to be submitted on the guest lecture by each student as a part of Term work</b></p> <p>Modern trends in A. C. Machines</p> <ul style="list-style-type: none"> <li>a) Bio Medical Instruments: Working, Calibration etc</li> <li>b) Testing of Switchgears</li> <li>c) Computer aided drafting.</li> <li>d) Automotive wiring &amp; lighting.</li> <li>e) Environmental pollution &amp; control.</li> <li>f) Interview Techniques.</li> <li>g) Automobile pollution, norms of pollution control.</li> </ul>	14
3	<p><b>Information Search (Student seminars based on information search &amp; guest lecture topics.)</b></p> <ul style="list-style-type: none"> <li>a) Magnetic Levitation Systems</li> <li>b) Recent developments in use of Electrically operated vehicles for mass transport</li> <li>c) Metro Railway in Kolkata and Delhi comparative study</li> <li>d) Electrically operated Motor Cars and Scooters/Motorbikes</li> <li>e) Alternative fuels &amp; energy options.</li> <li>f) Any other topic</li> </ul>	10

4	<p><b>Group Discussion :</b></p> <p>The students should discuss in group of six to eight students and write a brief report on the same as a part of term work. The topic of group discussions may be selected by the faculty members. Some of the suggested topics are -</p> <ul style="list-style-type: none"> <li>i) CNG versus LPG as a fuel.</li> <li>ii) Load shading and remedial measures.</li> <li>iii) Rain water harvesting.</li> <li>iv) Trends in energy conservation</li> <li>v) Disaster management.</li> <li>vi) Use of Plastic Carry Bags</li> <li>vii) Safety in day to day life.</li> <li>viii) Energy Saving in Institute.</li> </ul>	10
5	<p><b>Seminar :</b></p> <p>Seminar topic should be related to the subjects of fifth semester / topics from information search &amp; guest lectures. Each student shall submit a report of at least 10 pages and deliver a seminar (Presentation time – 10 minutes)</p>	18
<b>Total</b>		<b>80</b>