

Course Name : Electronics Engineering Group

Course Code : DE/ED/EI/EJ/EN/ET/EV/EX/IC/IE/IS/TU/MU

Semester : Third

Subject Title : Professional Practices - I

Subject Code : 17021

Teaching and Examination Scheme:

Teaching Scheme			Examination Scheme					
TH	TU	PR	PAPER HRS	TH	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:

To develop the following skills:

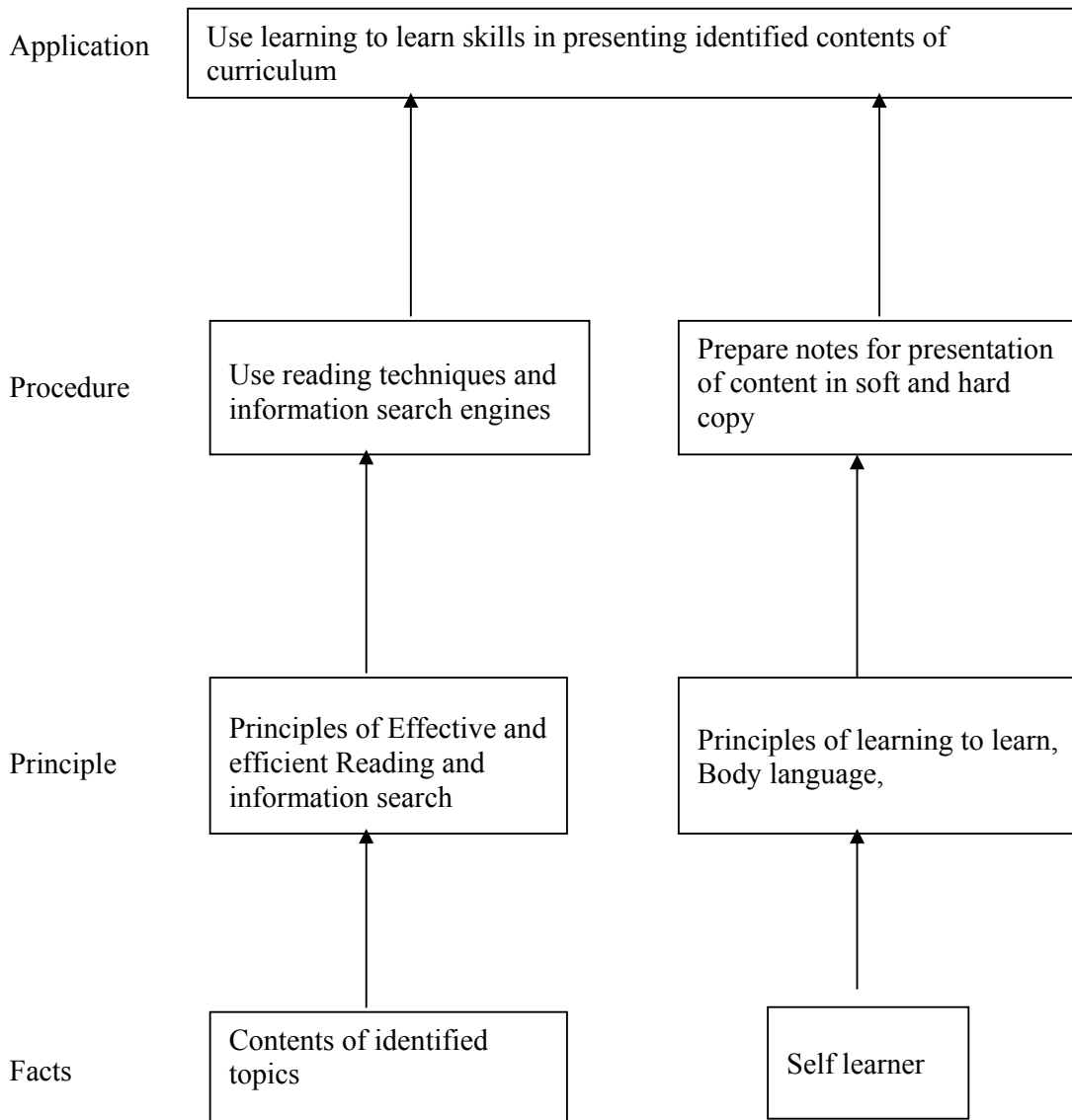
Intellectual Skills:

- 1) Acquire information from different sources.
- 2) Interpret the data acquired from different sources.
- 3) Prepare reports for given topic.

Motor Skills:

- 1) Present given topic in a seminar.
- 2) Interact with peers to share thoughts.
- 3) Prepare a report on industrial visit, expert lecture.

Learning Structure:



Contents:

Activity	Name of the Activity	Hours
1	<p>Field Visits Structured field visits (minimum three) be arranged and report of the same should be submitted by the individual student, to form a part of the term work.</p> <p>The field visits may be arranged in the following areas / Industries.</p> <ul style="list-style-type: none"> i) Power supply/UPS/SMPS/Inverter manufacturing unit ii) Electronics Instruments calibration laboratories iii) Electronic security systems iv) Radio station. v) Other related Industries. 	16
2	<p>Lectures by Professional / Industrial Expert to be organized from the following areas (any four)</p> <ul style="list-style-type: none"> i) Alternative energy sources ii) E-learning iii) Management of E-Waste iv) Nanotechnology v) Any topic related to social awareness 	08
3	<p>Seminar : Any one seminar on the topics suggested below: Students (Group of 4 to 5 students) has to search / collect information about the topic through literature survey, visits and discussions with experts / concerned persons: Students will have to submit a report of about 10 pages and deliver a seminar for 10 minutes.</p> <ul style="list-style-type: none"> i) Electronic rolling display ii) Electronic systems used in Multiplex iii) Electronic traffic control system iv) Any other suitable topic 	16
4	<p>Market Survey: A group of four students is expected to collect information from the market regarding specifications and cost of any three manufacturers for various instruments: CRO, Multimeter, UPS, DC Power supply, Function generator, Mobile handset, TV set of brand name, specifications, cost and applications.</p>	08
Total		48

Learning Resource

Sr. No	Content / Software / Books	Source	Remark
1	Printed Circuit Boards	Author - Walter C. Bosshart	Publisher:- Tata McGraw Hill
2	Troubleshooting Electronic Equipment	Author – R.S.Khandpur	Publisher:- Tata McGraw Hill
3	Express PCB	http://www.expresspcb.com/ExpressPCBHtm/Download.htm	Freeware
4	Express PCB, EAGLE, Free PCB, PCB123,	http://www.electronics-lab.com/downloads/pcb/index.html	Freeware
5	Press & Peel Pattern Transfer Technique	http://www.techniks.com/how_to.htm	Freeware
6	Video Clip for PCB Manufacturing	http://www.youtube.com/watch?v=CiduYvjVq70	Freeware
7	Video Clip for PCB Manufacturing	http://www.youtube.com/watch?v=8-WGaAmpfOU	Freeware
8	User Manuals of instruments	Manufacturer of Instruments	Freeware