

**Course Name : Computer Engineering Group**

**Course Code : CO/CM/IF/CW/CD**

**Semester : Fifth for CO/CM/IF/CW and Sixth for CD**

**Subject Title : Professional Practices-III**

**Subject Code : 17062**

**Teaching and Examination Scheme:**

Teaching Scheme			Examination Scheme					
TH	TU	PR	PAPER HRS	TH	PR	OR	TW	TOTAL
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**Rationale:**

A recent global research report has indicated that the Indian IT industry and academic institute are expecting multifold growth in technical communication. An effective technical communication helps students to express their ideas either orally or in writing technical reports.

Man's main task in life is to give birth to himself to become what he potentially is. The most important product of his effort is his own personality. Professional Practices helps to develop student's personality to get acquainted with industrial environment. This content enhances the students for sharing knowledge technical competency, aiding education & information of career opportunity.

Bigness comes from doing many small things such as Industrial visits, Expert lectures, Seminars on technical topics, group discussions and by using techniques of information search which helps the students to bridge the gap between industry and institute environment.

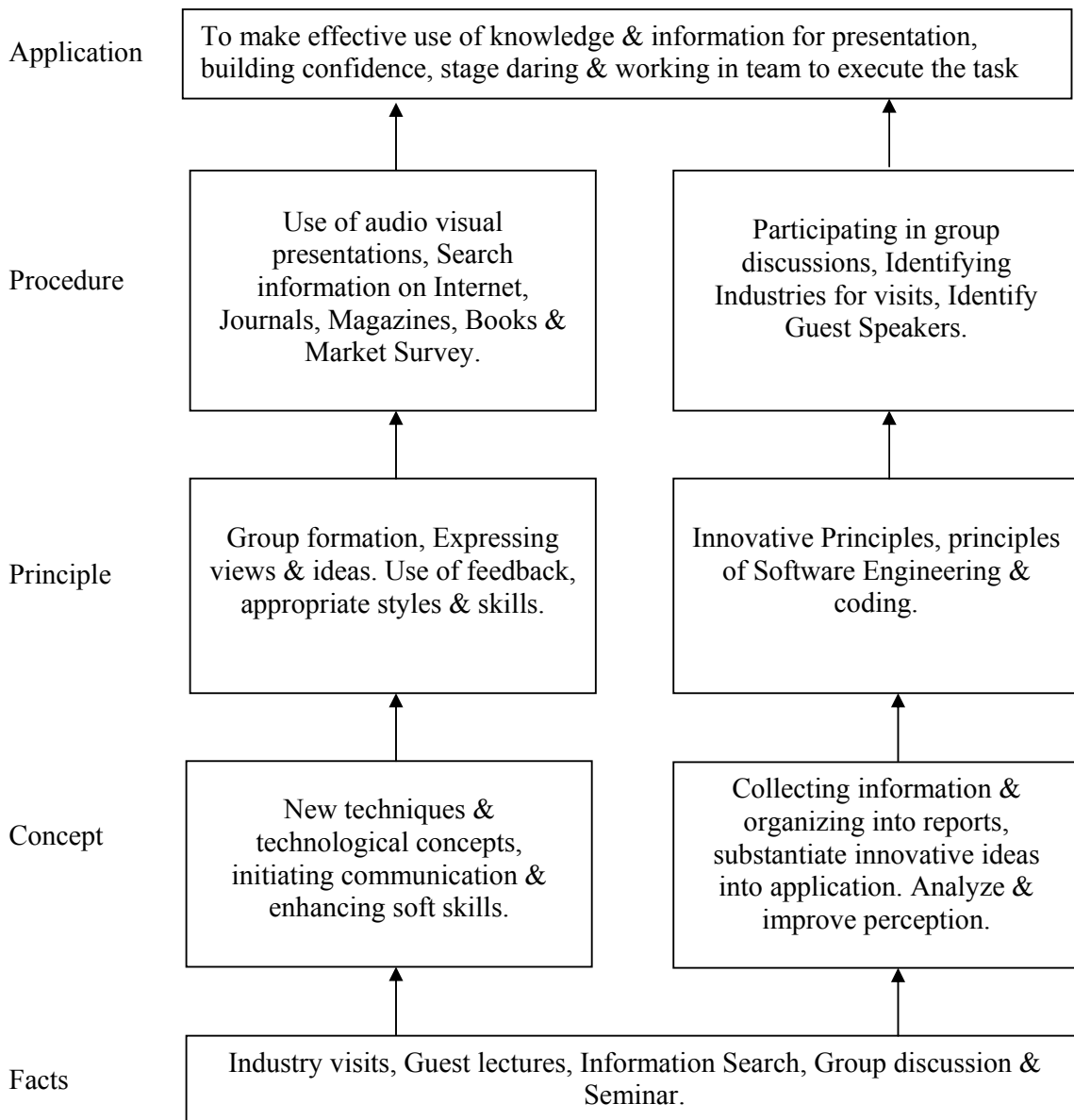
**Objectives:**

**Intellectual Skills:**

Students will be able to:

1. Acquire Information & Knowledge from different resources
2. Write the reports Industry Visits & Guest Lectures.
3. Deliver Seminars on a given topic which will help them to build self confidence & Knowledge.
4. Interact with each other through group discussion.
5. Present the feedback of various activities.

**Learning Structure:**



**Contents:**

Activity	Name of Activity
01	<p><b>Industry Visit : (At least One)</b>            Industry visit should be arranged and each student should submit the technical report individually as a part of term work.            Visits can be arranged in any industry which focuses on computer automation, data processing, computer network and computer control machine.</p>
02	<p><b>Guest Lectures : (Any Two)</b>            Guest lectures by industry experts, other professional are to be arranged from the following topics or any other suitable technical area. The brief report is to be submitted by individual student as part of term work.</p> <ul style="list-style-type: none"> <li>• 3 – D animation techniques.</li> <li>• Stress management.</li> <li>• IT Act 2008.</li> <li>• Linux installation &amp; administration.</li> <li>• Resume writing &amp; preparation of C.V.</li> <li>• Introduction of “Python” programming language.</li> <li>• Career opportunities in IT industry.</li> <li>• Plastic Memory</li> <li>• Psychological Personality Development.</li> <li>• Managing emotional quotient</li> <li>• Internet Marketing.</li> </ul>
03	<p><b>Information Search: (Any Two)</b>            Form a group of 2 students. Information should be collected from various resources like Internet, books, journals etc.on the following allocated topics or any other suitable topic suggested by teacher.            Prepare Individual technical report on selected topics of 8-10 pages &amp; deliver seminar on at least one topic.</p> <ul style="list-style-type: none"> <li>• Android O.S. of mobile systems.</li> <li>• Autonomic computing to manage complexity of network components.</li> <li>• Cloud computing – application (any one).</li> <li>• Biometrics – in secure E-transactions.</li> <li>• Pervasive Computing</li> <li>• E – MINE: A novel web mining approach</li> <li>• 4 G wireless systems</li> <li>• Jini – advanced set of network protocols</li> <li>• Parasitic Computing</li> <li>• E – wallet</li> <li>• Nano – technology and applications</li> <li>• DNA computing</li> <li>• Artificial neural networks &amp; their applications.</li> </ul>
04	<p><b>Group Discussion : (Any One)</b>            Form a group of 5 students and write a brief report on selected topic as a part of term work.            Some of the suggested topics:-</p> <ul style="list-style-type: none"> <li>• Role of UN in peace keeping</li> <li>• Effect of cinema on youth</li> <li>• Government contribution to IT</li> <li>• Balance between professionalism &amp; family</li> </ul>

	<ul style="list-style-type: none"> <li>• Position of women India compare to other nations</li> <li>• Present state of Indian Cricket Team</li> <li>• Is globalization really necessary?</li> <li>• Is India growing spiritually?</li> <li>• Any other suitable topic.</li> </ul>
05	<p><b>Prepare Yourself : (Any Two)</b> Preparation towards Interview. Write a brief report on selected topic as a part of term work.</p> <ul style="list-style-type: none"> <li>• Mock Interview</li> <li>• Mock aptitude test &amp; puzzle solving.(Attach answer paper)</li> <li>• CV Preparation. (Attach CV).</li> </ul>
06	<p><b>Seminar:</b> Form a group of 4 students Seminar should be on Final year Industrial Project synopsis &amp; week wise plan for completion of project. Each student shall submit a report of at least 10 pages and deliver a seminar.</p>

**References:**

1. Books on personality development & soft skills.
2. Engineering Subjects Reference books.
3. Journals & Magazines –IEEE journals, IT Technologies, PC Quest, Linux for You, CSI, Computer Today etc.
4. Local News Paper.
5. Books on General Knowledge, Aptitude Test, Puzzle Solving by – R .S. Agarwal, Shakuntala Devi
6. Websites - [www.groupdiscussion.com](http://www.groupdiscussion.com)  
- [www.Seminarprojects.com](http://www.Seminarprojects.com)

**OR****Industrial Training (Optional)**

- Students who have completed industrial training in summer vacation after 4<sup>th</sup> Semester will be granted exemption for activities related to topic 1 to 4.
- Students shall submit a brief report on topic No. 5 of Professional Practices-III
- Student shall give seminar on industry training as activity No. 6.
- These students shall submit report of Industrial training signed and certified by authorities from Industry.
- Evaluation will be done on seminar and report submitted by student.

**Note:**

For the students who have undergone industrial training of four weeks duration in the summer vacation of fourth semester will be assessed as follows:

1. Industrial Training report duly certified by competent authority in the industry: **30 Marks**
2. Brief report on topic no. 5 **05 Marks**
3. Seminar on industrial training: **15 Marks**