

Elective-II
0944 -DIPLOMA IN INFORMATION TECHNOLOGY & ENGINEERING
SEMESTER -I
094466 MAJOR PROJECT WORK
(Industry /Field Oriented)

RATIONALE

Major Project Work aims at developing innovative skills in the students whereby they apply in totality the knowledge and skills gained through the course work in the solution of particular problem or by undertaking a project. The individual students have different aptitudes and strengths. Project work, therefore, should match the strengths of students. For this purpose, students should be asked to identify the type of project work, they would like to execute. It is also essential that the faculty of the respective department may have a brainstorming to identify suitable project assignments for their students. The project assignment can be individual assignment or a group assignment. There should not be more than 3 students if the project work is given to a group. The students should identify themselves or accept the given project assignment at least two to three months in advance. The project work identified in collaboration with industry should be preferred.

Each teacher is expected to guide the project work of 5–6 students. Some of the the project assignments may consist of:

- Handling different software and Surfing Internet
- Web Page Designing
- Software Development
- Networking
- Web site designing hosting and maintenance using web designing tools
- Database Management system using oracle 8i
- Management Information System
- Developing application based on C and C++
- Developing application using Visual languages
- Developing system software using C and C++
- Developing projects related to office automation
- Developing projects related to industrial automation
- Developing software related to E-Commerce
- Developing Interactive applications using Java Applets etc
- Developing Internet applications using Java script

A suggestive criteria for assessing student performance by the external (personnel from industry) and internal (teacher) examiner is given in table below:

Rating Scale Sr No

Performance criteria Max.**

marks Excellent Very good

Good Fair Poor

1. Selection of project assignment
2. Planning and execution of considerations

3. Quality of performance
4. Providing solution of the problems or production of final product
5. Sense of responsibility
6. Self expression/ communication skills
7. Interpersonal skills/human relations
8. Report writing skills
9. Viva voce

Total marks

The overall grading of the practical training shall be made as per following table:

Range of maximum marks Overall grade

- i) More than 80 Excellent
- ii) 79 <> 65 Very good
- iii) 64 <> 50 Good
- iv) 49 <> 40 Fair
- v) Less than 40 Poor

In order to qualify for the diploma, students must get "Overall Good grade" failing which the students may be given one more chance of undergoing 8 -10 weeks of project oriented professional training in the same industry and re-evaluated before being disqualified and declared "not eligible to receive diploma ". It is also important to note that the students must get more than six "goods" or above "good" grade in different performance criteria items in order to get "Overall Good" grade.

Important Notes:

1. This criteria must be followed by the internal and external examiner and they should see the daily, weekly and monthly reports while awarding marks as per the above criteria.
2. The criteria for evaluation of the students have been worked out for 100 maximum marks. The internal and external examiners will evaluate students separately and give marks as per the study and evaluation scheme of examination.
3. The external examiner, preferably, a person from industry/organization, who has been associated with the project-oriented professional training of the students, should evaluate the students performance as per the above criteria.
4. It is also proposed that two students or two projects which are rated best be given merit certificate at the time of annual day of the institute. It would be better if specific nearby industries are approached for instituting such awards.