

SEMESTER
EE - 601 INDUSTRIAL TRAINING

OBJECTIVES

On completion of a spell of practical training in a industry, the student will be able to

1.0 Know the organizational set up from top executive to workmen level

1.1 Know the function of each department/section

1.2 Know the inter relationship among various
department/sections

2.0 Know the various raw materials used as feed stock and their source.

2.1 Understand the various intermediates produced and their further processing and / or waste disposal.

2.2 Know the final products, its composition and its commercial importance's, uses and applications.

3.0 Understand the various stages involved in processing, sequential arrangement of different equipment.

3.1 Draw the flow diagram, detail flow diagram of each process

3.2 Understand the arrangement of various equipment and machinery in systematic manner in a less possible area of site.

4.0 Know the various analytical methods used in the quality control department

4.1 Understand the experimental methods to find out the quality of the product

4.2 Understand various tools, instruments used for quality checking.

5.0 Know the trouble shooting in process operation

5.1 Know preventive precautions of each equipment in the plant.

5.2 Startup and shut down procedures for the equipment and plant.

6.0 Know the importance of safety in industries

6.1 Understand the safety about personnel protection, equipment protection

6.2 Know the usage of various safety devices

6.3 Precautionary measures to be taken.

7.0 Know the various pollutants emitted from the plant.

- 7.1 Understand effects of pollutants.
- 7.2 Understand treatment method and disposal.
- 7.3 Know the effective methods pollution control.

COURSE CONTENTS

- 1. Organizational set up
- 2. Raw materials, intermediates and end products
- 3. Process descriptions (Process flow diagrams and line tracing, detailed flow diagrams etc.)
- 4. Quality control of raw materials, intermediates and end products
- 5. Operational troubles and preventive measures
- 6. Safety aspects (personnel, equipment etc.)
- 7. Pollution control

INDUSTRIAL TRAINING SCHEME

VI SEMESTER

- 1. A candidate shall be assessed twice in the spell of industrial training i.e. at the end of third month and finally before he/she completes the industrial training
- 2. The assessment shall be carried out by a committee comprising of
 - (a) A representative of the Industry where the candidate is undergoing training
 - (b) A staff member of the concerned section of the polytechnic.
- 3. The assessment at the end of the third month and the end of training shall each carry 100 marks for the progress made during the corresponding period of training.
- 4. The remaining 100 marks are allotted as follows:
 - For the training report (Record) 30 marks,
 - For maintenance of log book 30 marks
 - For seminar 40 marks.

These are to be evaluated at the institution at the end of training by a committee consisting following staff members

- (1) Head of Section.
- (2) External Examiner preferably from Industry
- (3) Staff member who assessed the student during the Industrial Training.

5. The progress made during the end of assessment will be evaluated on the basis of the following parameters.

ASSESSMENT SCHEME

S. No.	Name of the Parameter	Max. Marks Allotted for each Parameter
1.	Attendance and punctuality	05
2.	Familiarity with Technical terms	06
3.	Familiarity with tools and material	10
4.	Attitude towards job	07
5.	Manual skills	04
6.	Application of knowledge	10
7.	Problem solving skills	10
8.	Comprehension and observation	04
9.	Safety and Environmental consciousness	03
10.	Human relations	04
11.	Ability to communicate	06
12.	Supervising ability	10
13.	General conduct during the period	06
14.	Maintenance of dairy	15
	Total	100