C24_ Curriculum

DIPLOMA IN MECHANICAL ENGINEERING

OFFERED BY

STATE BOARD OF TECHNICAL EDUCATION & TRAINING

TELANGANA: HYDERABAD

ME-601-INDUSTRIAL TRAINING

Course Title:	**Industrial Training**	Course Code	**ME-601**
Semester	**VI Semester**	Course Group	**Practical**
Teaching Scheme in Periods (L:T:P)	**0:0:0**	Credits	**20**
Methodology	**Training**	Total Duration	**6 months**
CIE	**900 Marks**	SEE	**100 Marks**

This course requires the skills of handling electrical tools, accessories and performing wiring connections

Rationale: Industrial training is introduced in the VI semester for the students as a part of the program to make the passed out students industry ready thus saving the training and apprenticeship needs in the industry and also help in capacity building of the Telangana state and the country.

Course Objective:

To enable the students to

1. Acquaint with Industry environment and culture.
2. Develop professional skills
3. Enhance the usage skills of modern tools
4. Develop Communication and leadership skills.
5. Encourage entrepreneurship

Course Outcomes:

CO1	Appreciate the organizational setup and hierarchy
CO2	Practice the use of Resource optimization techniques
CO3	Develop core engineering skills
CO4	Develop an understanding of solutions for Environmental issues in the industry
CO5	Get acquainted to industry culture and professionalism

Evaluation:

1. The student should submit a report describing the profile of the company, Nature of the job assigned to him /her and other details in a standard format duly attested and approved by the

head of the industry after two weeks and before Four weeks from the date of joining through e mail. Hard copy of the report may be submitted in person or by post.

2. 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 completed the industrial training
3. The assessment shall be carried out by a committee comprising of a representative of the Industry where the candidate is undergoing training and a faculty member from the respective program from the Polytechnic.

   For Institution level evaluation of industrial training, a committee consisting following faculty members (1) Head of Dept. concerned.(2) Faculty member who assessed the student in the industry (3) any other staff member of departmentconcerned may be formed.

Institution Level Evaluation Scheme			
Sl No	**Criteria**	**Marks**	**Time**
1	1st Report Submission	50	within 4 Weeks
2	Seminar-I	50	9th to 10th week
3	2nd Report Submission	50	Within 12 weeks
4	Log book	100	--
5	Seminar-II	50	Before Viva-Voce
	Institute Evaluation Total	**300**	
Semester End Examination			
1	Viva-Voce	50	After 15 weeks
2	Demonstration of skills	50	
	Total	100	

Note: For obtaining Provisional certificate the student has to submit training completion certificate from the industry after six months of training.

Assessment parameters and Blue Print of Marks for Industry Evaluation

Sl No	Learning Parameter	Marks
1	Attendance and punctuality	40
2	Familiarity of tools and material	60
3	Engineering skills	100
4	Application of knowledge & Problem solving skills	100
5	Comprehension and observation	20
6	Professionalism/Professional ethics	40
7	Safety and environmental consciousness	20
8	Communication skills	40
9	Supervisory skills	100
10	General conduct during the period	80
Total marks for Industry Evaluation		**600**
Institute Evaluation		**300**
Semester End Examination/Viva-Voce		**100**
TOTAL		**1000**

Learning Outcomes

1.0 Observe Safety Precautions and rules of the industry

1.1. Know the importance of safety in industries
1.2. Understand the safety about personnel protection, equipment protection
1.3. Know the usage of various safety devices
1.4. Precautionary measures to be taken.

2.0 Appreciate organizational set up from top executive to workmen level

2.1. Acquaint with the function of each department/section
2.2. Comprehend the inter relationship among various department/sections.

3.0. Observe the end product ,variousComponents/ materials used in the production and identify their source.

3.1. Identify the various stages involved in the assembly and production of end product.

3.2. List the final products, their composition and its commercial importance, uses and Applications.

4.0. Develop an Understanding of various stages involved in processing, sequential arrangement of different equipment.

4.1. Represent the whole process and each sub processes with a flow diagram

4.2. Observe and appreciate the resource optimization of space (the arrangement of various equipment and machinery in systematic manner in a less possible area of site), Electricity, Men machinery, money and Time.

5.0. Explain various analytical methods used in the quality control department

5.1. Practice the Testing methods for quality assurance and bench mark standards

5.2. Practice use of various tools, instruments used for quality checking.

6.0. Observe trouble shooting /servicing /maintenance techniques used during the production

6.1. Observe preventive precautions and maintenance of each equipment in the unit

6.2. Follow Staring andshutting down procedures for the equipment in the unit.

7.0. Identify the various pollutants emitted from the plant/Industry.

7.1. State effects of pollutants.

7.2. Explain handling methods of E waste and pollutants disposal