



GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Engineering
Subject Code: 3182101
Semester – VIII
Subject Name: Project/Internship

Type of course: Project work, seminar and internship in industry

Prerequisite: Metallurgy Engineering courses (Basic science, Engineering Science and core courses), Effective Technical Communication and Design Engineering

Rationale: To enhance employability skills of the students Industrial Training or Project work is required. It provides practical experience in a field of Metallurgy Engineering and help to reinforce theoretical knowledge gained in different courses to solve real life challenges.

Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE (V)	PA (I)		
0	0	24	12	0	0	100	100	200

Content:

Major Project work

Final semester of Metallurgy Engineering is dedicated to Major project work or Industrial Training

In a major project work students are expected to ...

- Survey and study published literature related to project
- Do patent search analysis and submit PSAR (Patent Search Analysis Report)
- Plan for the project work and decide implementation method, list Equipment's /components or parts required.
- Point out practical difficulties faced during implementations and possible solution.
- Aim to obtain better results in terms of properties enhancement, cost optimization, new alloy development etc.
- Compare results with available literature.
- Prepare project report and do intermediate and final presentation before department project committee for review of the work done.
- Conclude the project work and suggest future work.

OR

Industrial Training:

Minimum eight weeks in an Industry to get exposure to the practical aspects of the Metallurgy Engineering. In addition, the student may also work on a specified task or project which may be assigned to him/her by industry mentor or faculty. The outcome of the Industrial Training should be presented in the form of a report.

Objectives of Industrial Training:

- To expose students to the industrial environment
- To create competent professionals for the industry.



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- To provide possible opportunities to learn, understand and sharpen the real time technical / managerial skills required at the job
- Exposure to the current technological developments relevant to the subject area of training.
- Learn to apply the Technical knowledge in real industrial situations
- Gain experience in writing Technical reports/projects.
- Expose students to the engineer's responsibilities and ethics.
- To become Familiarize with various materials, processes, products and their applications along with relevant aspects of quality control.
- Understand the social, economic and administrative considerations that influence the working environment of industrial organizations
- Understand the psychology of the workers and their habits, attitudes and approach to problem solving
- To strengthen industry-institute linkage and increase employability of the students

During Industrial Training or at Major Project work at institute, Students may be encouraged to take up projects which are aimed at providing solutions to societal problems, reduce drudgery and improving efficiency in rural work, green technologies, utilization of rural and urban waste, sanitation and public health, utilizing non-conventional energy sources, technologies for the benefit of the differently abled people and technologies ready to be implemented in the Institute.

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Demonstrate a sound technical knowledge for problem identification, formulation and solution to assigned project/ industrial training	40%
CO-2	Design engineering solutions to complex problems utilising a systems approach and team work	30%
CO-3	Demonstrate and apply the communication skills, knowledge and understanding of engineering and project management principle to assigned project/ industrial training	30%

Reference:

- AICTE Model curriculum
- AICTE Internship Policy:
<https://www.aicte-india.org/sites/default/files/AICTE%20Internship%20Policy.pdf>