GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Engineering (Textile)
Subject Code: 3182901
Semester – VIII
Subject Name: Internship/ Project

Type of course: Project work or Internship in industry

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

Rationale: To enhance employability skills of the students, Internship or Project work is required. Internships are educational and career development opportunities, providing practical experience in a field or discipline. They are structured, short-term, supervised assignments often focused around particular tasks or projects with defined timescales. It provides practical experience in a field of textile technology and help to reinforce theoretical knowledge gained in different courses to solve real life challenges. The students are given exposure to explore the new developments and techniques, which can lead them to self-employment or even employment generation through extension of the work done in project.

Teaching and Examination Scheme:

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

Content:
Objectives of Industrial Training (Internship):

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

Final semester of Textile Technology is dedicated to Major project work OR internship for about 12 weeks. In a major project work students are expected to:

- Survey and study of published literature related to project
- Do patent search analysis and submit PSAR (Paten Search Analysis Report)
- Design/analysis and verification of project work.
- Decide implementation method and list components or parts required.
- Point out practical difficulties faced during implementations and device to solve them.
- Modify design/experiment if feasible to obtain better results.
- Optimize the project design in terms of cost, area, power, computation complexity etc.
- Compare results of projects with other similar design/experiment specifications.
- Prepare project report and do presentation before department project committee.
- Conclude the project work and suggest future work.
- Intermediate and final seminar in presence of department project committee for review of the work done

Distribution of Marks					
R Level	U Level	A Level	N Level	E Level	C Level
5	10	30	30	10	15

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Course Outcomes:

Sr. No.	CO statement	Marks % weightage
CO-1	Demonstrate a sound technical knowledge of their selected project topic	20%
CO-2	Undertake problem identification, formulation and solution	20%
CO-3	Design engineering solutions to complex problems utilising a systems approach and team work	30%
CO-4	Communicate with engineers and the community at large in written and oral forms	20%
CO-5	Demonstrate the knowledge and understanding of engineering and management principle and apply it to assigned project	10%

Reference:

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