

GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)**Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021)**
Semester-V**Course Title: Summer Internship-II**
(Course Code: 4352804)

| Diploma programme in which this course is offered | Semester in which offered |
|--|----------------------------------|
| Textile Processing Technology | 5 th Semester |

1. RATIONALE

Idea of Embedded Internships- AICTE has made 6 weeks summer internships mandatory in the new curriculum which will equip the students with practical understanding and training about industry practices in a suitable industry or organization. To make education holistic, sports, physical activities, values and ethics have been embedded in the curriculum.

Summer Internship is an essential component of the curriculum of Diploma in Textile Processing Technology Programme. It is highly required for a student to familiarize with Industrial environment and current & latest working methodology of various wet processes in the textile industry.

It is also a good option by which students to get flavor of such emerging technology and familiar with industry environment to identify scope and focus of their career development opportunities. Main objective of summer internship is hands-on practice to expose students for thinking about professional career by observing, understanding working mechanism of ongoing work of industry and to develop various types of skills throughout internship.

This six week mandatory internship is to equip the students with practical knowledge and provide them exposure to real time industrial environment. The duration of internship will be of six weeks. It will be after completion of 4th Semester and before the commencement of 5th Semester.

2. COMPETENCY

The purpose of this course is to help the student to attain flavor of the following industry identified competency through summer internship experiences:

Get exposure to the industrial environment, which cannot be simulated in the classroom and hence creating competent professionals for the industr

3. COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge and the relevant soft skills associated with the identified competency are to be developed in the student for the achievement of the following COs:

1. Get possible opportunities to learn, understand and sharpen the real time technical / supervisor level skills required at the job(s).
2. Gain experience in writing Technical reports / projects and presentation of it.
3. Learn and gain exposure to the engineer's responsibilities and ethics.
4. Understand the social, economic and administrative considerations that influence the working environment of industrial organizations.

4. TEACHING AND EXAMINATION SCHEME

| Teaching Scheme (In Hours) | | | Total Credits (L+T+P/2) | Examination Scheme | | | | Total Marks |
|-------------------------------|---|---|----------------------------|--------------------|-----|-----------------|-----|----------------|
| | | | | Theory Marks | | Practical Marks | | |
| L | T | P | C | CA | ESE | CA | ESE | |
| 0 | 0 | 0 | 3 | 0 | 0 | 50 | 50 | 100 |

Legends: *L*-Lecture; *T* – Tutorial/Teacher Guided Theory Practice; *P* -Practical; *C* – Credit, *CA* - Continuous Assessment; *ESE* -End Semester Examination.

5. SUGGESTED STUDENT ACTIVITIES

Step 1: Request Letter/ Email from the Institute should go to industry to allot multiple slots of 6 weeks during summer vacation as Summer Internship period for the students. Students request letter/profile/ interest areas may be submitted to industries for their willingness for providing the internship.

Step 2: Industry will confirm the internship slots and the number of seats allocated for internships via Confirmation Letter/ Email. In case the students arrange the internship themselves the confirmation letter will be submitted by the students in the office of Institute through respective department. Based on the number of slots agreed to by the Industry, institute will allocate the students to the Industry.

Step 3: Students, after joining the Training at the concerned Industry / Organization, has to submit the Joining Report/ Letters / Email.

Step 4: Students are undergoing for Summer Internship at the concerned Industry / Organization. During the course of internship, faculty Member(s) will visit the industry and evaluate(s) the performance of students at least once. Evaluation Report of the students needs to be submitted to department training & placement coordinator in department office with the consent of Industry persons/ Trainers.

Step 5: Students will submit a training report after completion of internship.

Step 6: Training Certificate to be obtained from industry.

Sample forms for Registration and Evaluation of Summer Internship-II –SI-II are given below:

- 1) Both forms are mandatory to be filled at the commencement and completion of SI respectively.
- 2) It is mandatory to file and map SI-II Registration and Evaluation so that students get enough exposure of industry / technology.
- 3) Mapping will be done to ease CA and ESE Evaluations.
- 4) A Seminar / Webinar can be arranged so that students coming from different industry / institute / project background can share experiences and learnings to their peers / all students of the same department.
- 5) Attached formats for Registration, Completion and Evaluation are suggestive. But, adhering to these formats is anticipated.

Summer Internship-II Registration Form

Note: Students needs to submit this registration form after finalizing industry for internship.

| Student Details | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|
| Enrollment Number | | | | | | | | | | | | |
| Student Name | | | | | | | | | | | | |
| Student Details | Mobile Number : | | | | | | | | | | | |
| | Email Address: | | | | | | | | | | | |
| Branch | | | | | | | | | | | | |
| Code of the Institute | Name of the Institute | | | | | | | | | | | |
| Mentor Details (Institute) | Name: | | | | | | | | | | | |
| | Designation: | | | | | | | | | | | |
| | Mobile No: | | | | | | | | | | | |
| | Email Address: | | | | | | | | | | | |
| Industry Details | Name: | | | | | | | | | | | |
| | Address: | | | | | | | | | | | |
| | Email: | | | | | | | | | | | |
| | Phone: | | | | | | | | | | | |
| | Website: | | | | | | | | | | | |
| Mentor Details (Industry) | Name: | | | | | | | | | | | |
| | Designation: | | | | | | | | | | | |
| | Mobile No: | | | | | | | | | | | |
| | Email Address | | | | | | | | | | | |
| Title of the Project/ Internship carried out | | | | | | | | | | | | |
| Nature of Work Carried Out | Production Planning & Control, Inventory management, Bleaching, Fabric dyeing, Yarn dyeing, Fabric printing, Finishing, Garment processing, Technical Textiles, Marketing & Merchandizing, Laboratory & Application. Other please Specify_____ | | | | | | | | | | | |

Student Signature

Faculty Signature

Summer Internship-II -Suggested Letter for Completion

[Industry letter head]

No:

Date

TO WHOM SO EVER IT MAY CONCERN

This is to certify that, Mr. /Mrs. _____

Enrollment No. _____ Student of _____

Has successfully completed a six week Internship in the field of _____

From the date: _____ to date: _____.

[90% Attendance is mandatory for completion of Internship]

During the period of his/her summer internship program with us, He / She was exposed to following different processes and were found sincere and hardworking.

1. _____

2. _____

3. _____

4. _____

Mentor Signature

Head of Department

Stamp

Stamp

Summer Internship-II -Evaluation Rubrics for Institute

Evaluation Rubrics (Institute)

Enrollment No: _____

Branch: _____

Name of the Students: _____

Date of Evaluation: _____

| Internal Evaluation – 50 Marks PA(I) (To be carried out by the mentor in consultation with Industry) Minimum Passing Marks: 18 | | | | | |
|---|-----------|------|---------|----------------------------------|----------------|
| Parameter | Excellent | Good | Average | Not up the level of Satisfaction | Obtained Marks |
| Mark range | 4-5 | 3-4 | 2-3 | Below 2 | |
| Knowledge acquisition in specific domain. 20 marks | | | | | |
| Skill and attitude attainment in specific domain. 10 marks | | | | | |
| Feedback and suggestions given are incorporated? 10marks | | | | | |
| Quality of the prepared report. 10 marks | | | | | |
| Viva-voce 10 marks | | | | | |
| Total Marks Obtained Out of 50 PA(I) | | | | | |

Signature: _____

Institute Resource Examiner Name: _____

Suggested Evaluation Rubrics for Industry

Evaluation Rubrics (Industry)

Enrollment No: _____

Branch: _____

Name of the Students: _____

Date of Evaluation: _____

| External Evaluation – 50 Marks ESE(V) (To be carried out by the Industry Supervisor) Minimum Passing Marks: 18 | | | | | |
|--|-----------|------|---------|----------------------------------|----------------|
| Parameter | Excellent | Good | Average | Not up the level of Satisfaction | Obtained Marks |
| Mark range | 4-5 | 3-4 | 2-3 | Below 2 | |
| Student regularity during the Internship period and proactiveness/responsiveness towards the given tasks (20 Marks) | | | | | |
| Work Plan, Execution and quality of work in forms of Outcome achieved (10 Marks) | | | | | |
| Engineering Tools and Techniques (10 Marks) | | | | | |
| Quality of the report and Skill (10 Marks) | | | | | |
| Viva--voce (10 Marks) | | | | | |
| Total Marks Obtained Out of 50 ESE(V) | | | | | |

Signature: _____

Industry resource/ Examiner Name: _____

Common Note:

- 1) For Summer Internship / Projects / Seminar etc. Evaluation is based on work done, quality of report, performance in viva-voce, presentation etc. The internal / external assessment is based on the student's performance in viva-voce /work record respectively.
- 2) In case Industry Supervisor is not available / Institute Mentor/ Faculty can fill up both.

6. AFFECTIVE DOMAIN OUTCOMES

The following affective Domain Outcomes (ADOs) are embedded in many of the above mentioned COs. More could be added to fulfill the development of this course competency.

- a) Work as a leader/a team member as role of Engineer.
- b) Practice environmentally friendly methods and processes.
- c) Follow safety precautions and ethical practices.

7. PO-COMPETENCY-CO MAPPING

| Semester III | Summer Internship (Course Code:4330001) | | | | | | |
|--|--|--------------------------|---|--|---|----------------------------|----------------------------|
| | POs | | | | | | |
| Competency & Course Outcomes | PO 1 Basic & Discipline specific knowledge | PO 2 Problem Analysis | PO 3 Design/development of solutions | PO 4 Engineering Tools, Experimentation & Testing | PO 5 Engineering practices for society, sustainability & environment | PO 6 Project Management | PO 7 Life-long learning |
| Competency | Use principles of basic electronics to maintain various electronics circuits And equipment | | | | | | |
| CO1) Learn and adopt the engineer's role and responsibilities with ethics. | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO2) Get exposure to the industrial environment for professional activities. | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| CO3) Get possible opportunities to learn understand and sharpen the technical skills required for technical advancement. | 2 | 1 | 2 | 2 | 1 | 1 | 1 |
| CO4) Develop managerial skills required for professional career. | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| CO5) Attain skill for writing technical report and prepare poster for presentation. | 1 | 1 | - | 1 | 1 | 1 | 1 |

Legend: '3' for high, '2' for medium, '1' for low and '-' for no correlation of each CO with PO.

8. COURSE CURRICULUM DEVELOPMENT COMMITTEE

| Sr. No. | Name and Designation | Institute | Contact No. | Email |
|---------|----------------------|-----------|-------------|----------------------|
| 1 | R D Joshi | RCTI | 9426387274 | rdjrcti@gmail.com |
| 2 | R D Pachauri | RCTI | 9624106881 | 2468rashmi@gmail.com |