

**GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)****Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021)**  
Semester-III**Course Title: Summer Internship-I**  
(Course Code: 4330001)

<b>Diploma programme in which this course is offered</b>	<b>Semester in which offered</b>
All Branches of Diploma Engineering	Third

**1. RATIONALE**

Idea of Embedded Internships- AICTE has made 7-10 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.

We must agree that all Branches of Diploma Engineering are changing rapidly. New technologies are adding fast which effects can be seen in our society. Summer internship is 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 hand-on practice to expose students for thinking about professional career by observing, understanding working mechanism of ongoing work of industry and to obtain various types of skills throughout internship program.

This two week mandatory internship is to equip the students with practical knowledge and provide them exposure to real time industrial environments. Further, in these internships, the option is provided to do internship in Government Agencies/ skill centers/ social sector/ Govt. initiated social schemes/ NGOs etc. The duration of internship will be two weeks. It will be after completion of 2<sup>nd</sup> Semester and before the commencement of Semester 3<sup>rd</sup>. Any options from following can be chosen by the students:

- Offline internship in industry** - Student is supposed to produce joining letter for starting and relieving letter once the internship is over in case of Offline internship in any industry.
- Online internships** – Student can select from any of approved /supported / recommended by the All India Council of Technical education for Internship (like Internshala/ NEAT/ Gujarat Knowledge Society Initiative etc.) or Approved by the state government or University approved
- A Mini Project** - On some suitable topic related to respective branch. It can be small fabrication / experimental results/ simulations/ Application development / Design and / or Analysis of System(s) etc. depending on the branch of the student. Preferably a single student should carry out a mini-project.

**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:

- Develop multiple types of skills such as planning, communication, collaboration, decision making / Problem solving and management skills along with selected technical knowledge.**

### 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:

- Learn and adopt the engineer's role and responsibilities with ethics.
- Get exposure to the industrial environment for professional activities.
- Get possible opportunities to learn, understand and sharpen the technical skills required for technical advancement.
- Develop managerial skills required for professional career.
- Attain skill for writing technical report and prepare poster for presentation.

### 4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P/2)	Examination Scheme				Total Marks
L	T	P		Theory Marks		Practical Marks		
			C	CA	ESE	CA	ESE	
0	0	0	1	0	0	25	25	50

- Offline internship in industry:** CA will be carried out based on submitted progress card by Industry resource person and ESE / Assessment will be carried out by institute resources person.
- Online internships:** CA will be carried out based on submitted certificate and ESE/ Assessment will be carried out by institute resources person.
- A Mini Project:** CA will be carried out based on project work by institute resources person.

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

#### List of Documents to be prepared for Submission:

- Detail report duly signed and approved by the internal/external mentor
- Presentation softcopy approved by the internal/external mentor
- Poster of summer internship activities approved by the internal/external mentor.

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

- Both forms are mandatory to be filled at the commencement and completion of SI respectively.
- It is mandatory to file and map SI-I Registration and Evaluation with respective forms of SI-II (Later in Semester 5) so that students get enough exposure of industry / technology. (Mapping doesn't mean same industry/ company/ project-it can be independent/ different also.)
- Mapping will be done to ease CA and ESE Evaluations.
- 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.
- Attached formats for Registration, Completion and Evaluation are suggestive. But, adhering to these formats is anticipated.

## Summer Internship-I Registration Form

Note: Students needs to submit this registration form after finalizing mode of 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										
Mode of Internship Carried Out	Online / Offline/ Mini Project										
Title of the Project/ Internship carried out											
Nature of Work Carried Out	Web Design / Application development (Web / Mobile), Experimental results/ simulations/ Analysis of System(s) etc...										
	Other please Specify_____										

Student Signature

Faculty Signature

## Summer Internship-I -Suggested Letter for Completion

[Company or Institute 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 two 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 were exposed to following different processes and were found sincere and hardworking.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**Mentor Signature**

**Head of Department**

Stamp

Stamp

### Summer Internship-I -Evaluation Rubrics for Institute Evaluation Rubrics (Institute)

Enrollment No: \_\_\_\_\_

Branch: \_\_\_\_\_

Name of the Students: \_\_\_\_\_

Date of Evaluation: \_\_\_\_\_

<b>Internal Evaluation – 25 Marks PA(I)</b> (To be carried out by the mentor in consultation with Industry) <b>Minimum Passing Marks: 13</b>					
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. <b>5 marks</b>					
Skill and attitude attainment in specific domain. <b>5 marks</b>					
Feedback and suggestions given are incorporated? <b>5 marks</b>					
Quality of the prepared report and poster. <b>5 marks</b>					
Quality of the presentation. <b>5 marks</b>					
<b>Total Marks Obtained Out of 25 PA(I)</b>					

Signature: \_\_\_\_\_

Institute Resource Examiner Name: \_\_\_\_\_

### Suggested Evaluation Rubrics for Industry Evaluation Rubrics (Industry)

Enrollment No: \_\_\_\_\_

Branch: \_\_\_\_\_

Name of the Students: \_\_\_\_\_

Date of Evaluation: \_\_\_\_\_

<b>External Evaluation – 25 Marks ESE(V)</b> (To be carried out by the Industry Supervisor) <b>Minimum Passing Marks: 13</b>					
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 <b>(5 Marks)</b>					
Work Plan, Execution and quality of work in forms of Outcome achieved <b>(5 Marks)</b>					
Engineering Tools and Techniques <b>(5 Marks)</b>					
Quality of poster design and presentation <b>(5 Marks)</b>					
Quality of the report and Skill <b>(5 Marks)</b>					
<b>Total Marks Obtained Out of 25 ESE(V)</b>					

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.

## 5. 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.

## 6. SUGGESTED STUDENT ACTIVITIES

Following are the suggested student-related curricular, **co-curricular** activities which can be undertaken to accelerate the attainment of the various outcomes in this course: Students should perform following activities and prepare reports and give presentation in front of students and faculty members. They should also collect/record physical evidences for their (student's) portfolio which may be useful for their placement interviews:

- a) Perform various tasks given by industry resources person during offline internship.
- b) Perform various tasks given during online internship.
- c) Perform various task required to complete mini project work under guidance of faculty member.
- d) Summer Internship program Interns are required to give a presentation before review committee consisting of a group of academic staff members.
- e) The review committee gives feedback and suggests possible improvements in the work.
- f) At the end of the program all the Summer Internship program Interns make a poster presentation of the work carried out. The poster presentation is open to the public. It is also evaluated by faculty members.
- g) A completion certificate will be issued to all Summer Internship program Interns only after the completion of internship tenure.

## 7. SOFTWARE / LEARNING WEBSITES

An internship is a short term work program usually offered to students by companies and institutes who require staff for assistance at junior levels. Thus for the students undergoing internship a professional learning experience is provided to benefit them in their skills as well as career. It will brush existing skills and provide exposure to new skills. Generally it is provided at entry level in the industry.

Here is a suggestive list for reference only.

- <http://www.gksgujarat.org/>
- <https://anubandham.gujarat.gov.in/home>
- <https://kaushalyaskilluniversity.ac.in/>
- <https://www.internshala.com>
- <https://swayam.gov.in>
- <https://nptel.ac.in/>
- <https://neat.aicte-india.org/>
- <https://www.edx.org/>
- <https://www.coursera.org/>
- <https://www.udemy.com/>
- <https://www.linkedin.com>
- <https://www.stumags.com>
- <https://www.letsintern.com>
- <https://www.internship.com>
- <https://www.glassdoor.com>

## 8. 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
<b>Competency</b>	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.

## 9. COURSE CURRICULUM DEVELOPMENT COMMITTEE

Sr. No.	Name and Designation	Institute	Contact No.	Email
1	Jiger P. Acharya	GP, Ahmedabad	9429462026	<a href="mailto:jigeracharya@gmail.com">jigeracharya@gmail.com</a>
2	Alpeshkumar R. Thaker	GP, Ahmedabad	9879709675	<a href="mailto:alpeshrthaker@gmail.com">alpeshrthaker@gmail.com</a>
3	Umang D. Shah	GP, Ahmedabad	9427686364	<a href="mailto:umang.shah111gp@gmail.com">umang.shah111gp@gmail.com</a>

### BoS Resource Persons

Sr. No.	Name and Designation	Institute	Contact No.	Email
1	Shri U. V. Buch- BoS Member and Subject in-charge (EC)	G P Ahmedabad	9825346992	<a href="mailto:uvbuch@gmail.com">uvbuch@gmail.com</a>