GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021) Semester-III

Course Title: Summer Internship-I

(Course Code: 4330001)

Diploma programme in which this course is offered	Semester in which offered
All Branches of Diploma Engineering(Except Automobile, Bio	Third
Medical, ICT, Power)	Tinid

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 2nd Semester and before the commencement of Semester 3rd. Any options from following can be chosen by the students:

- 1. **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.
- 2. **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
- 3. 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:

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

4. TEACHING AND EXAMINATION SCHEME

Teach	ing Sc	heme	Total Credits	Examination Scheme				
(Iı	1 Hour	:s)	(L+T+P/2)	Theory	Marks Practical Marks			Total
L	Т	Р	С	CA	ESE	CA	ESE	Marks
0	0	0	1	0	0	25	25	50

- 1. **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.
- 2. **Online internships:** CA will be carried out based on submitted certificate and ESE/ Assessment will be carried out by institute resources person.
- 3. 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:

- 1) 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.)
- 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-I Registration Form

Note: Students needs to submit this registration form after finalizing mode of internship.

Student Details												
Enrollment Number												
Student Name												
6 1 5 1	N 1 11	<u>)</u>										
Student Details	Mobile	Mobile Number :										
	Email A	Addres	ss:									
Branch												
Code of the Institute	Name	of the	e Insti	tute								
Mentor Details (Institute)	Name:											
	Design	ation	:									
	Mobile	No:										
	Email Address:											
Industry Details	Name:											
	Address:											
	Email:											
	Phone:											
	Websit	e:										
Mentor Details (Industry)	Name:											
	Design	ation	:									
	Mobile	No:										
	Email A	Addre	ess									
Mode of Internship Carriec Out	l Online	/ Off	line/ N	Mini P	roject							
Title of the Project/ Internship carried out												
Nature of Work Carried Out	Web D resu				on devo Analys), Exp	erimer	ntal
	Other p	olease	Spec	ify								

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:	<u></u> .
[90% Attendance is mandatory for completion of In	ternship]
During the period of his/her summer internship program with us, He / She following different processes and were found sincere and hardworking. 1	

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

Enrollment No: _____

Branch:

Name of the Students: Date of Evaluation:

Internal Evaluation – 25 Marks PA(I) (To be carried out by the mentor in consultation with Industry) Minimum Passing Marks: 13						
Parameter	Excellent	Good	Average	Not up the level of Satisfaction	Obtained Marks	
Mark range	4-5	3-4	2-3	Below 2	WIAFKS	
Knowledge acquisition in specific domain. 5 marks						
Skill and attitude attainment in specific domain. 5 marks						
Feedback and suggestions given are incorporated? 5 marks						
Quality of the prepared report and poster. 5 marks						
Quality of the presentation. 5 marks						
		To	tal Marks Obt	tained Out of 25 PA(I)		

Signature: _____

Signature: ______ Institute Resource Examiner Name: ______

Suggested Evaluation Rubrics for Industry

Evaluation Rubrics (Industry)

Enrollment No: _____

Branch:

Name of the Students: _____ **Date of Evaluation:**

			25 Marks ES		
(To be carried Parameter	Excellent	Good	Average	um Passing Marks: 1 Not up the level of Satisfaction	Dotained Marks
Mark range	4-5	3-4	2-3	Below 2	
Student regularity during the Internship period and proactive ness/responsiveness towards the given tasks (5 Marks)Work Plan, Execution and quality of work in forms of Outcome achieved (5 Marks)Engineering Tools and					
Techniques (5 Marks)					
Quality of poster design and presentation (5 Marks)					
Quality of the report and Skill (5 Marks)					
		Total 1	Marks Obtain	ed Out of 25 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.

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.

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 ay entry level in the industry.

Here is a suggestive list for reference only.

- <u>https://www.internshala.com</u>
- <u>https://swayam.gov.in</u>
- <u>https://nptel.ac.in/</u>
- <u>https://neat.aicte-india.org/</u>
- <u>https://www.edx.org/</u>
- <u>https://www.coursera.org/</u>
- <u>https://www.udemy.com/</u>
- https://www.linkedIn.com
- https://www.stumags.com
- <u>https://www.letsintern.com</u>
- <u>https://www.internship.com</u>
- <u>https://www.glassdoor.com</u>

8. PO-COMPETENCY-CO MAPPING

Semester III		Sum	ner Intern	ship (Cour	se Code:433	0001)			
Semester III	POs								
Competency & Course Outcomes	PO 1 Basic & Disciplin e specific knowled ge	PO 2 Proble m Analy sis	PO 3 Design/ developme nt of solutions	PO 4 Engineerin g Tools, Experimen tation & Testing	PO 5 Engineering practices for society, sustainability & environment	PO 6 Project Manageme nt	PO 7 Life- long learni ng		
<u>Competency</u>	Us	e principl	es of basic elec	tronics to main And equipm	ntain various elect ent	tronics circuits	;		
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
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BoS Resource Persons

Sr. No.	Name and Designation	Institute	Contact No.	Email
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