GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

Competency-Focused Outcome-based Green Curriculum-2021 (COGC-2021)
Semester -V

Course Title: Summer Internship-II
(Course Code: 4351605)

Diploma programme in which this course is offered	Semester in which offered
Information Technology	5th Semester

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. Internships are educational and career development opportunities, providing practical experience in a field or discipline. The Summer Internship-II is a student centric activity that would expose Technical students to the industrial environment, which cannot be simulated in the classroom and hence creating competent professionals for the industry.

Internships are off-campus experiential learning activities designed to provide students with opportunities to make connections between the theory and practice of academic study and the practical application of that study in a professional work environment. Internships offer the opportunity to "try out" a career while gaining relevant experience and professional connections.

During the summer vacation after 4th Semester, students are ready for industrial experience. Therefore, they may choose to undergo Internship /Innovation /Entrepreneurship related activities. Students may choose either to work on innovation or entrepreneurial activities resulting in start- up or undergo internship with industry/ NGO's/ Government organizations/ Micro/ Small/ Medium enterprises to make themselves ready for the industry. In case a student want to pursue his/her family business and don't want to undergo internship, a declaration by a parent may be submitted directly to the TPO.

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) Be aware of duty, professional responsibility and ethics of an engineer.
b) Able to communicate effectively, develop professional work reports and presentations in the working environment.
c) Develop awareness about general workplace behavior and build interpersonal and team skills.
d) Obtain exposure and practical experience in the related field.
e) Able to apply theoretical knowledge to solve industrial problems.

4.   TEACHING AND EXAMINATION SCHEME

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

1. **Offline internship in industry:** CA will be carried out based on submitted progress card byIndustry 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/ Assessmentwill 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-II –SI-I 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-I Registration (semester 3) and Evaluation with respective forms of SI-II (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 learning's to their peers / all studentsof 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 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-II -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 the Department**

Stamp   Stamp

Summer Internship-II-Evaluation Rubrics for Institute

Evaluation Rubrics (Institute)

Enrollment No: **Branch:**

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

Internal Evaluation – 25 Marks PA(I) (To be carried out by the mentor in consultation with Industry) Minimum Passing Marks: 10					
Parameter	**Excellent**	**Good**	**Average**	**Not up the level of Satisfaction**	**Obtained Marks**
Mark range	**4-5**	**3-4**	**2-3**	**Below 2**	
Technical knowledge and awareness related to the specific discipline. **5 Marks**					
Attendance and punctuality during the internship period**. 5 marks**					
Receiving and providing feedback during the internship period. **5 marks**					
Team work in the organization and adaptation capacity**. 5 marks**					
Report writing and Presentation Skill. **5 marks**					
Total Marks Obtained Out of 25 PA(I)					

Signature: _____ **Institute Resource Examiner Name: _____**

Enrollment No: **Branch:**

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

External Evaluation – 25 Marks ESE(V) (To be carried out by the Industry Supervisor) Minimum Passing Marks:10					
Parameter	**Excellent**	**Good**	**Average**	**Not up the level of Satisfaction**	Obtained Marks
Mark range	**4-5**	**3-4**	**2-3**	**Below 2**	
Demonstrates skills needed for assigned tasks and effective use of engineering tools and techniques. **(5 Marks)**					
Maintains professional manner / appearance and Manages time/resources effectively**. (5 Marks)**					
Intern attendance and punctuality during the internship period and dedication towards work assigned. **(5 Marks)**					
Understands expectations of supervisor and seeks further guidance when appropriate. **(5 Marks)**					
Quality of industrial report and presentation skill. **(5 Marks)**					
Total Marks Obtained Out of 25 ESE(V)					

Signature: _____ **Institute 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 committeeconsisting 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 V	Summer Internship II (Course Code: 4351605)						
	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
CO1) Be aware of duty, professional responsibility and ethics of an engineer.	2	1	1	1	1	1	1
CO2) Able to communicate effectively, develop professional work reports and presentations in the working environment.	2	1	1	1	1	1	1
CO3) Develop awareness about general workplace behavior and build interpersonal and team skills.	2	1	2	2	1	1	1
CO4) Obtain exposure and practical experience in the related field.	1	1	2	1	1	1	1
CO5) Able to apply theoretical knowledge to solve industrial problems.	2	1	1	1	1	1	1

9. COURSE CURRICULUM DEVELOPMENT COMMITTEE
GTU Resource Persons

Sr. No.	Name and Designation	Institute	Contact No.	Email
1	Dr. Gaurang V. Lakhani, HOD,IT, I/c Principal	G.P. Bhuj	9426851961	gvlakhani1@gmail.com
2	Ms. Amisha Patel, Lecturer in I.T.	G.P. Valsad	9925050835	patelamisha61@gmail.com
3	Mr. Bhavin P. Mistry, Lecturer in I.T.	G.P. Himatnagar	9429085125	mistry.1987@gmail.com