GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

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

Semester -V

Course Title: Internship Project

(Course Code: 4350704)

Diploma programme in which this course is offered	Semester in which offered
Computer Engineering	5 th semester

1. RATIONALE

Computer Engineering is emerging field that changes rapidly. New technologies are adding fastly which effects can be seen in our society. Summer internship is a good options 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, adopting mechanism of ongoing work of industry and to obtain various types of skills under internship programme.

The duration of internship will be six weeks. It will be started with commencement of 5th Semester. Any options from following can be opted by the students:

- 1. **Offline internship in industry** Student is suggested to select branch specific training in IT Industry. Students are supposed to produce joining letter and relieving letter once the internship is over in case of Offline internship in any industry.
- Project In case student not able to find offline internship at industry students can
 develop project on some suitable topic related to respective computer engineering
 branch under faculty guidance. Additionally, Institute/ department may arrange
 technical sessions/ workshops from industry experts to give exposure to students about
 recent technologies and tools.

Students needs to report at institute every 15 days about progress to internal guide in suggested reporting format which is given in syllabus and represent his/her work carried out for monitoring and evaluation purpose.

2. COMPETENCY

The purpose of this course is to help the student to attain the following industry identified competency through various teaching-learning experiences:

 Develop effective programming skills, problem-solving abilities, and technical knowledge to design and develop innovative solutions during gaining hands-on experience for professional development opportunities.

3. COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge, and the relevant soft skills associated with this competency are to be developed in the student to display the following COs:

The student will develop underpinning knowledge, adequate programming skills of competency for implementing various applications using python programming language to attain the following course outcomes.

- a) Apply acquired knowledge to solve domain related societal problems.
- b) Develop effective communication within academic and industrial environments.
- c) Utilize industry-standard tools and technologies to design, develop, and test systems.
- d) Apply problem-solving skills to resolve technical issues encountered in IT Industry.
- e) Develop life-long learning skills for a successful professional career.

4. TEACHING AND EXAMINATION SCHEME

Teachi	_		Total Credits		Ex	camination S		
(In	Hour	5)	(L+T/2+P/2)	Theory Marks		Practic	al Marks	Total
L	Т	P	С	CA	ESE	CA	ESE	Marks
-	-	-	3	0	0	25	25	50

- 1. **Offline internship in industry:** CA Assessment 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. **Project:** CA and ESE Assessment 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:

- 1. All 15 Days Work Report Sheet signed by internal guide (suggested format given in syllabus).
- 2. Student Attendance Sheet Report for summer internship (suggested format given in syllabus).
- 3. Detail report duly signed and approved by the internal/external mentor.
- 4. Presentation softcopy approved by the internal/external mentor.
- 5. Poster of summer internship activities approved by the internal/external mentor.

Note: Faculty should inform students in advance about summer internship or project as First six weeks will be as summer internship/ project. so students

needs to finalize offline training from industry or project at institute before commencement of 5th semester and report at institute.

Summer Internship/ Project Registration Form

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

	Student Details											
Enrollment Number												
Student Name				•		•	•	•		•		
Student Details	Mob	ile Nu	mber:									
	Emai	l Addr	ess:									
Branch												
Code and Name of the Institute												
Mentor Details (Institute)	Nam	e:										
Wiemor Betails (maticate)	Desi	gnatio	n:									
		ile No										
	Emai	l Addr	ess:									
Industry Details	Name:											
madstry Details	Address:											
	Email:											
	Phor	ie:										
	Web	site:										
Mentor Details (Industry)	Nam	e:										
Wientor Details (maastry)	Designation:											
	Mob	ile No										
	Emai	l Addr	ess									
Mode of Internship Carried Out	Offlir	ne/ Pro	oject									
Title of the Project/ Internship carried out												
Nature of Work Carried		_		-	on dev nalysis	-	-		Mobile	e), Exp	erime	ntal
	Othe	r nlea	se Sne	cify								

Student Signature

Faculty Signature

Internship/ Project - Suggested Letter for Completion

[Company /Institute/ Department letter head]

Dep	artment letter head]
No:	Date
то 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 r	mandatory for completion of Internship]
During the period of his/her summer inte following different processes and were	rnship program with us, He / She were exposed to e found sincere and hardworking.
1	
2	
3	
4	

Mentor Signature with stamp

		SUGGEST	ED 15 DAYS W	ORK SHEET REPORT	
Student Nar	ne :				
Enrollment	No:				
Internship/F	Project Title				
Tools and Te					
	Organization Nam	e			
	ctivity Details:				
Week	Start Date to	Tasks to	o be assigned	Tasks to be completed	Remarks
Number	End Date	T G S K S C K		rasks to be completed	Remarks
				Signatu	re of Company Person

	[TO BE FILLED BY INTERNAL GUIDE/FACULTY ONLY]									
Any Sugges	Any Suggestion/Remarks:									
							Çi	anature of I	nternal Gu	ide/Faculty
		HEGE	CTED	STUDENT	ATTEI	ND V V	ICE SHEET F		internal Gu	ide/Tacuity
ODCANIZATI	ION INFORMATI		SIED	SIUDENI	AIIE	NDAN	ICE SHEET P	EPUKI		
		ON	I							
Organization										
Organization	Address									
Organization	Email ID									
STUDENT IN	FORMATION		I							
Name of Stu	dent :									
Enrollment N	10 :					Nan	ne of Course	2:		
Date of Com	mencement of			Date of Completion of						
training:				Training						
Internship/ F	Project Title									
Student's At	tendance Sheet						,	ı		1
	Day of week									COUNT
Week No	(->)	Day	/1	Day2	Da	у3	Day4	Day5	Day6	(present
										day)
Week 1	Date									
	PR/AB									
Week 2	Date									
Week 2	PR/AB									
Week 3	Date									
VVCCKS	PR/AB									
Week 4 Date										
VVEEK 4	PR/AB									
Mook F										
Week 5	PR/AB									
Date										
Week 6	PR/AB									
	<u>. </u>		I	Total C	Count	of stu	dent's pres	ents during	internship	
				rotal	Work	ing d	ays of comp	any during	internship	

Student's percentage present during internship NOTE: 1. Attendance sheet should be submitted after completion of training to internal guide of institute/department. 2. Holidays should be marked in RED INK. 3. Absent should be marked as "AB" in RED INK. Signature of Company internship person with company stamp/seal: Name of Company internship person: Contact No of Company internship person:

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5. AFFECTIVE DOMAIN OUTCOMES

Internship Project

The following affective Domain Outcomes (ADOs) are embedded in many of the abovementioned 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 required to complete project work under guidance of faculty member.

- c) Summer Internship program Interns are required to give a presentation before the review committee consisting of a group of academic staff members.
- d) The review committee gives feedback and suggests possible improvements in the work.
- e) 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.
- f) A completion certificate will be issued to all Summer Internship program Interns only after the completion of internship tenure.

7. REFERENCE

• AICTE Internship Policy.pdf (aicte-india.org)

8. PO-COMPETENCY-CO MAPPING

Semester V	Internship/Project (Course Code: 4350706)									
Semester v	POs and PSOs									
Competency & Course Outcomes	& Discipline Problem develop		PO 3 Design/ development of solutions Tools, Experimentatio n &Testing		PO 5 Engineering practices for society, sustainability & environment	PO 6 Project Manage ment	PO 7 Life-long learning			
Competency Develop effective programming skills, problem-solving abilities, and technical knowledge to design and develop innovative solutions during gaining hands-on experience for professional development opportunities.										
Course Outcomes a) Apply acquired knowledge to solve domain related societal problems.	2	2	1	2	1	1	1			
b) Develop effective communication within academic and industrial environments.	1	1	1	1	1	1	1			

c) Utilize industry-standard tools and technologies to design, develop and test systems.	2	2	2	3		1	1
d) Apply problem-solving skills to resolve technical issues encountered in IT Industry.	2	3	2	1	1		1
e) Develop life-long learning skills for a successful professional career.	1	1	1	1			2

Legend: '3' for high, '2' for medium, '1' for low or '-' for the relevant correlation of each competency, CO, with PO/ PSO

9. COURSE CURRICULUM DEVELOPMENT COMMITTEE

GTU Resource Persons

Sr. No.	Name and Designation	Institute	Email
1	Alpeshkumar R. Thaker	GP, Ahmedabad	alpeshrthaker@gmail.com
2	Umang D. Shah	GP, Ahmedabad	umang.shah111gp@gmail.com