B. V. PATEL INSTITUTE OF COMPUTER SCIENCE, UKA TARSADIA UNIVERSITY, 2023-2024

BCA – 5th Semester Learning and Development Plan

CS5005: Project Course Credit: 04 Total Hours: 04

<u>Course Objective:</u> To learn the concept of application development and implement the project as per the requirements determined. Design, configure and execute test cases that determine system performance and acceptability.

Course Outcomes: Upon completion of the course, the student shall be able to

CO1: Plan, design, implement useful and robust application by using the latest software development environment and tools.

CO2: Build data repository to construct, store and to implement business intelligence or executive dashboard.

CO3: Demonstrate the ability to work as a team member and/or leader.

CO4: Apply tool and technology knowledge along with standard coding conventions to build application.

CO5: Analyze, evaluate and use relevant application testing techniques for developed application environment.

CO6: Comprehend technical writing through preparation of Software Requirement Specifications.

CO7: Communicate effectively with a range of audiences.

Programme Outcomes:

PO1: Ability to understand the concepts of key areas in computer science.

PO2: Ability to design and develop system, component or process as well as test and maintain it so as to provide promising solutions to industry and society.

PO3: Effective communication and presentation skill.

PO4: Ability to understand professional and ethical responsibility.

PO5: Recognition of the need for life-long learning.

Programme Outcomes and Course Outcomes Mapping:

Course Outcomes	Programme Outcomes				
Course Outcomes	PO1	PO2	PO3	PO4	PO5
CO1	Y	Y		Y	Y
CO2	Y	Y			
CO3	Y	Y	Y	Y	Y
CO4	Y	Y		Y	Y
CO5	Y	Y	Y	Y	Y
CO6	Y	Y		Y	Y
CO7			Y		

Skill set for Semester:

- Professional Skill: Collaborative
- Writing Skill: Narrative
- Communication Skill: Physical Non-verbal
- Reading Skill: Research Analysis

Team Formation and Guide Allocation:

☐ A project shall be done in a team consists of minimum 3 and maximum 4 students.
☐ Decision of project committee shall be final.
☐ Guide shall be allocated to the teams by project committee before start of the second
week.
☐ Choice of tools and technologies for extended requirement shall be determined by
students and guide after approval from project committee.

Project Guidelines:

- ☐ Project team must refine the requirements analyzed in previous semester and freeze the project requirements with following ways of Extension :
 - o User interface refinement for better usability and sophistication
 - o TPS/ MIS and DSS reports refinement
 - o Enrichment in existing user functionalities
 - o Extend the system by introducing new stakeholder and their functionalities
 - o Extend the system for non-functional requirements
 - o Improve the automatic testing with help of tools and above the unit testing
 - Implementation of "Future Enhancement" defined in previous Semester

Project Hours:

Approximately 100 hours to be utilized by student for project work.

Support and guidance team for Project:

☐ Support and Guidance Team is created so that student or guide can receive additional support for respective project work.

Support and	Guidance team
System Analysis and Design	BAD, JBU, PBG, ADP, RBP, GCP,
	GKP
Database Design	ADP, UJP, BAD, SHC
System Testing	PBG, BAD, PHP , GKP
Web based Development	JHT, MMS , RBP, APA
Mobile based Development	JHT, UJP ,PHP
Content Management over Web	MMS
Application	
Data Analytics	JVN, MMS, JHT , PBG, ASP
IoT based Development	MMS, JBU, ADP
Project Development Support	Respective Guide

Project Progress and Evaluation:

- Rubric based continues evaluation shall be conducted on the basis of following parameters :
 - o Project timeliness
 - o Project enhancement
 - o Project implementation
 - Project quality
 - Project work sufficiency
 - o Project work related documentation
 - Project work related presentation

☐ To determine the progress of the project work, following parameters must be considered:

Assessm	Parameter	Occurrence	Each of	Weightage	Evaluated	Tentative	Skill set
ent No.			Marks	in CIE of	By	Dates of	Mapping
				marks (40)		Semester	
A1	Requirement	1	10	05x1 = 05	Guide and		Reading,
	Freezing				Members of		Writing,
	document				project		Thinking and
					committee		Innovation
A2	Project	1	10	05x1 = 05	Guide		Writing,
	Timeline						Thinking
							,Collaborative
A3	Document and	1	50	30x1 = 30	Panel		Reading,
	Project				determined		Writing,
	presentation				for		Collaborative
	– 1				Presentation		and
							Communication
A4	External	1	60	1 x 60 = 60		University	
	Examination					declare	

Each team will be given at least thirty minutes of project presentation for assessment A3, A4 and forty five minutes for assessment A5 followed by approximately ten minutes of viva.

A1: Requirement Freezing: Guideline

☐ Students have to submit extended project requirements in provided format on or before deadline.

B.V.Patel Institute of Computer Science, Uka Tarsadia University BCA 5th Semester

Course Name:	Course Code:

Team Number			
Project Title			
Student- guide interaction during	Day		Total Hours per week
	Time duration		
Project Objectives and definition	,	1	1
Previous semester project functionalities			
Extension points with description for current semester project work			
Tools and technology for current Semester			

Declaration:

We hereby declare that we will not change the above given details for the entire semester. We are well aware that project work must be developed by the team members and must not be copied and (or) paid one. We acknowledge that, the institute has the authority for taking punitive actions against us for violation and/or non-compliance of the same.

Enrolment Number	Name	Signature

Team members were made aware by me regarding plagiarism and its consequences.

	Signature
<guide name=""></guide>	

Date: Place:

Evaluation:

Requirement Freezing				
Parameter	Marks (10)			
Quality of extended requirement	40 %			
Student Reporting	20 %			
Selections of distinct functionality	10 %			
Timeliness	10 %			
Work Sufficiency	20 %			

<u>A2: Pro</u>	ject Timeli	ne: Guideline				
	☐Teams are expected to plan their project tasks well in advance and execute the same with punctuality.					
□St	udents must	keep track of submi	•	referring the mails	and guidelines/	circular
	1 0	ect work published nust submit the time		tal team member	s] schedule to th	e guide
		of semester.	la mbasa suisa. Es	ahh.a.a	. h avin - aatinaat	and atom
an	d end date a	ne must consist tas nd end of each phas ne must be submit i	se, deliverables m	nust be decided.	e naving estimat	ed start
	-,		nstitute Name>>			
		< <course>><</course>	<no.of semester<="" td=""><td>>> Semester</td><td></td><td></td></no.of>	>> Semester		
	Co	urse Name: Project		Course Code: C	S5005	
	Project 7	Геат : < <no>></no>		Project Title:		
		I	Project Timeli	ne		
•	_	ning must list all the esign. Subtasks must		-		
Sr. No	Project Phase No	Sub Activities	Name of Responsible Person	Estimated Start Date	Estimated End Date	Deliverable
	Total			AINIS		
	Total Hours <nn></nn>					
Declara	tion:					
	-	at the timeline is pre		-	*	
aspects r	elated to this	project development.	. The duration plan	ned is meant to be	as close as the act	tual one.
Enrolmen	t Number	Name			Signature	
The teeler of	nd dandlings	are approved				
<< Guide Na		are approved.	< <signature>></signature>			
Date:			Place			

Evaluation:

- There shall be one timeline, which shall be evaluated by guide.
- O Task and subtask must be align with software development process, indicating the flow from initialization phase and testing phase.

Timeline – 1	
Parameter	Marks (10)
Phase wise task distribution	30%
Student Reporting	20%
Linkage of task-subtask with estimated duration	30%
Work sufficiency	20%

☐ Timeline shall be evaluated by guide on daily basis and the status has to be marked by the project guide
on the day of estimated completion Date or actual end date, whichever comes first. The status can
further be updated on the day of estimated completion date or actual end date whichever comes later.
When the status is set to "Completed", the mode must also be marked by the guide.

☐ Timeline must use for reporting purpose.

Ph ase No.	Project Sub Task	Estim ated Start Date	Es ti m at ed En d Da te	Actu al Star t Date	Act ual En d Dat e	Compl ete status by Studen ts	Complete status by Guide Status (Completed /Pending)& Date	Commen ts from Guide- CoGuide	Mode (Intime /Early/D elayed)& Date

☐ Timeline as log book must be submit on end of semester with updated status and mode by guide to the project committee in above given format and declaration :

Declaration:

☐ The estimated dates are as per the timeline planning submitted. The actual dates are mentioned as the tasks have started and/or ended.

Enrolment Number	Name	Signature

The status is marked after appropriate verification.

< <guide name="">></guide>	< <signature>></signature>

A3: Document and Project presentation – 1

Guideline:

☐ Students have to verify document and get it signed by guide, and submit to project committee.					
☐ Project Document -1 will be partial document.					
☐ If a student failed to meet the deadlines, he/she shall receive zero marks in particular parameter.					
☐ The presentation shall be evaluated by examiner panel.					
☐ During presentation, a student has to bring updated timeline, work to be present.					
☐ Student shall use presentation slides to explain the project work.					
☐ No make-up work shall be accepted for missed or failed presentation.					
☐ Presentation must be reviewed by guide.					
☐ Presentation template include minimum following things :					
☐ Project title, team member names, enrolment numbers, guide name					
☐ System process flow					
☐ Listing of extended features					
☐ Comparative study of current and previous semester system feature					
☐ Limitation					
☐ Extended System Definition, Objective, Scope, Requirement.					
☐ User Reports					
☐ Dashboard					
☐ System Design					
Marks weightage of Document and Project presentation-1 are as given below:					

Document – 1 Parameters	Marks(20)	Topics for partial submission from project report
Document flow & formatting	10%	
System implementation	40%	Up to the Activity plan mentioned for Parameter A3.
Data manage on Dashboard	30%	
User Report	20%	

Presentation – 1 Parameters	Marks(30)
System Design	20%
Technical Knowledge	20%
Presentation Skill	10%
Demonstration	30%
Work sufficiency	20%

Final Submission:

☐ After Project Presentation - 2, team shall have to submit spiral bounded copy of project document compulsorily in the prescribed format along with soft copy in CD before the Semester End Presentation with approval of guide and certificates from institute.

Activity Plan:

• Given plan should be followed by guide and students in this semester to complete the project work smoothly for determined objectives:

Sr. No	Activity	CO mappe d	Skill set Mapped	Week	Responsib le e person	Assess m ent Mapp ed
1	New template integration in 4th Semester Project	CO1	Thinking , Inquiry Skill	1 and 2	Project committe e	
2	Work on Extended project requirement and session by Project committee	CO1		3	Project committee	
3	Extended Project Requirement Document Submission: Team must submit the document for the approval of the extended requirements from Project committee in following format: Purpose Previous semester project functionalities Extension points with description for current semester project Comparison between current semester and previous semester functionalities Tools and technology selected for current semester's project Any customization for the project.	CO1, CO7	Major skill: Writing Skill: Narrative Associated skill: Understand ing and Reading	4	Guide and co-guide	A1
4	Phase wise timeline task and duration determining for extended version of project. The team needs to submit timeline for the same.	CO1 , CO7	Major skill: Writing Skill: Narrative Associated skill: Understand ing, Reading , Thinking	4	Student and Guide	A2
5	Extended requirement documentation. After the approval of the extended requirements from guide and Project committee. Team must document the requirements: Previous semester project detail Scope	CO1, CO7	Major skill: Writing Skill: Narrative Associated skill:	4	Guide	

o Tools and Technology Functional and Non- functional requirement ∪ User characteristics □ Proposed system detail ○ System outline ○ Purpose ○ Scope ○ Tools and Technology ○ Functional and Non- functional requirement ○ Exciting functionalities ○ User characteristics ○ Data Dictionary, integrity constraints ○ Summary about expected ○ functionality and Exciting functionality ○ user characteristics ○ Data Dictionary, integrity constraints ○ Summary about expected ○ functionality and Exciting functionalities and its Design preparation ○ Use case diagram ○ GUI Design (Functionality wise) ○ Traversals [in hierarchical format] ○ User interface screenshots Screen image with caption □ Description □ Data From Table, End User, Remote Server or others □ Critical Conders □ Critical Poserone and/or used Validations (Built-in , customized) ○ Summary - Functionality wise total pages and No. of validations (Built-in , customized) 7 The team needs to document the codes Specification with following detaits. □ Customized Coding standard followed for development □ Critical code for distinct - functionality with justification □ Webpage code must not execute Major skill: S Guide Gui	O Functional and Non-functional requirement O User characteristics □ Proposed system detail O System outline O Purpose O Scope O Tools and Technology Functional and Non-functional requirement O Exciting functionalities O User characteristics O Data Dictionary, integrity constraints O Summary about expected functionality and Exciting functionalities and its Design preparation O Use case diagram O GU Design (Functionality wise) O Traversals [in hierarchical format] O User interface screenshots Screen image with caption Data From Table , End User, Remote Server or others Data To Remote Server or others Critical Describe and/or used Validations (Built-in , customized) Specification with following details. □ Customized Coding standard followed for development □ Critical doed for distinct functionality with justification □ Customized Coding standard followed for development □ Critical Customized Vailing with justification □ Customized Coding standard followed for development □ Critical Customized Vailing with justification □ Customized Coding standard followed for development □ Critical Code for distinct functionality with justification □ Customized Coding standard followed for development □ Critical Code for distinct functionality with justification □ Customized Coding standard followed for development □ Critical Code for distinct functionality with justification □ Customized Coding standard followed for development □ Critical Code for distinct functionality with justification							
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	Coding Conven						
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		apphp.com/php-					
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	for standard						
		appheation/.apphp.com/php-					
		examples/docs/index.php?					
	page=file-st	ructure					
	□ List a	nd describe used APIs,					
		ries, plug-ins, web services					
		algorithms used for					
		ching the project.					
	☐ Sumi	nary as Line of Code for					
	who	le project					
8	Implementation of	of User wise Reports and	CO4	Major skill:	9	Student	
	Dashboard with	following details :		Writing			
	☐ Dasl	nboard View		Skill:			
		nage with caption		Narrative			
	View-1			Narrative			
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	Report-1	Filtered / General Reports					
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	1	_					
	n	Show Popular products.					
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		show popular products					
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)		ls to test extended functionality	CO5	Major skill:	10-	Guide	A3-
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		ring detail in a document.		Skill:			presentati or
		Project Testing: Evaluation		Narrative			– 1
		methods					1
		Used testing Tool specification		Associated			
	☐ Automated Testing Name			skill:			
		of Functionality		Reading,			
		Image of tested functionality		Understand			
		Test Case Report		ing,			
		Test case Reports for		Learning,			
		Functional Testing, Usability		Technical			
		Testing, Interface Testing,		Technical			
		Database Testing , Dataflow					
		and Control flow Testing					
		Summary [No. of Test Cases for					
	•	each types]					
10	System valida	tion testing for whole system.	CO1	Major skill:	11-	Guide	
			-	Writing	12		
			CO7	Skill:			
				Narrative			
				Associated			
				skill:			
				Reading,			
				Understand			
				ing,			
				Learning,			
				Technical			

11	Final spiral bound submission by team.	CO1	Major skill:	13	Student	A4 –
	 The team needs to verify the 	CO2,	Writing			Semester
	document from guide and co-guide	CO3,	Skill:			End
	along with their signature to project	CO4,	Narrative			Presentat
	committee.	CO5,				ion
	The spiral bound contains full documentation along with CD.	CO6	Associated			
	 The CD contains all necessary files 		skill:			
	related to the project.		Reading			
	Totaled to the project.					
			Major skill:			
			Collaborati			
			ve Skill			
			Associated			
			skill:			
			Communic			
			ation			

<u>Project Document Format</u>: Project Document Report must cover at least following content but should not be limited to it:

1. Title Page

2. Project Certification Form(From Institute)

[The Institute certificate should be duly filled signed by project guide and program coordinator.]

3. Declaration certificate

[A self-declaration regarding work originality and non-plagiarism.

Declaration certificate format is given below.]

4. Work sufficiency certificate

[A self-declaration regarding work justification according to the determined objectives and duration. Work sufficiency certificate format is given below.]

5. Acknowledgement

[All persons (e.g. guide technician, friends, and relatives) and organization/authorities who/which have helped in the understanding of the project shall be acknowledged.]

- 6. Table of contents with page numbering
- 7. List of Tables, Figures, Schemes
- 8. Chapters of project work execution

Guideline for Report Formatting:

- 9. Future scope in detail
- 10. Learning during project work
- 11. References [List the references related to tools/technology, coding and testing.]
- 12. Glossary of Terms

☐ Use A4 size page with 1" margin all sides. ☐ Header should include Project tile and footer should contain page number and enrollment numbers. ☐ Chapter Name should be of Cambria font, 20 points, Bold. ☐ Main Heading should be of Cambria font, 16 points, Bold. ☐ Sub Heading should be of Cambria font, 12 points, Bold. ☐ Sub heading of sub heading should be of Cambria font, 12 points, Bold, Italic. ☐ Paragraph should be of Cambria font, 12 points. ☐ Line spacing - 1.5 lines, before - 0, after - 0. ☐ No chapter number for references. ☐ Before chapter 1, give page number in roman letter (Title Page, Project Certification Form, Acknowledgements, Table of Contents/Index with page numbering, List of Tables, Figures, Schemes and Summary/abstract of the project work).

Front Page Format: Each project document must have front page as follows:

^{*}Note: Enrichment is preferred in above specification on the basis of nature of the project.

PROJECT

«TITLE IN CAPITAL LETTERS»

Submitted By,

«Student's Name (Enrollment Number)»,

«Student's Name (Enrollment Number)»

Guided By, «Guide Name»

for partial fulfillment of the requirements

for the Degree of Bachelor of Computer Application

B.V.Patel Institute of Computer Science,

Uka Tarsadia University.

«Month», 2023.

<u>Declaration Certificate:</u> Each project document must have declaration certificate page as follows:

DECLARATION

We hereby declare that the project titled "<<*Project Title>>*"is fully implemented by us. It is neither paid nor copied. Even though, later on, in case of any infringement found for this project work, we are solely responsible for the same and understand that as per UGC norms, the University can revoke the degree conferred to us.

Enrollment No	Name	Signature

W	Vork Sufficiency Certificate
	e project work presented by the team is sufficient and qualitative
according to the specified time	duration and team size.
Guide Name	Signature