



GUJARAT TECHNOLOGICAL UNIVERSITY

**Program Name: Bachelor of Computer Applications /
Bachelor of Computer Applications (Honours/Honours with Research) /
Master of Computer Applications (Integrated)
Level: Under Graduate
Course / Subject Code: BC05001081
Course / Subject Name: Minor Project**

w. e. f. Academic Year:	2026-27
Semester:	5
Category of the Course:	Skill Enhancement Courses

Prerequisite:	Students should have completed core programming and software engineering courses.
Rationale:	This course enables students to undertake a guided project in one selected domain: Artificial Intelligence, Web Development, Data Science, or Mobile Application Development. Students conceptualize, design, implement, test, and deploy a working prototype. Continuous evaluation occurs through progress presentations, prototype reviews, documentation, and final examination. The course emphasizes technical competence, project execution skills, teamwork, and professional responsibility.

Course Outcome:

After Completion of the Course, Student will able to:

No	Course Outcomes (Cognitive Domain/Revised Bloom's Taxonomy)	RBT Level
01	Analyze real-world problems and derive technical requirements suitable for AI, Web, Data Science, or Mobile solutions.	AN
02	Design an appropriate software architecture and workflow for project implementation.	CR
03	Apply domain-specific tools, libraries, and frameworks to implement functional modules.	AP
04	Evaluate system performance and refine solutions through testing and validation methods.	EV
05	Develop a working prototype and technical documentation meeting professional standards.	CR
No	Course Outcome (Psychomotor Domain/Simpson's Taxonomy)	
06	Demonstrate skilled operation of development tools, frameworks, debugging utilities, and deployment platforms to construct and deliver a functional prototype.	<i>Mechanism → Complex Overt Response</i>



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No	Course Outcome (Affective Domain/Krathwohl, Bloom & Masia Taxonomy)	
07	Demonstrate responsibility, collaboration, ethical practices, and sustained commitment during project execution and reporting.	Valuing → Organization

Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Tutorial / Practical		
				ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
0	2	2	3	0	0	40	60	100

Weekly Activities (Indicative)

Week	Activity
1	Domain selection & problem identification
2	Requirement analysis & proposal submission
3	Literature survey & feasibility study
4	System design & architecture planning
5	Technology stack finalization
6	Prototype design & dataset/resource preparation
7	Development Sprint 1
8	Progress Review 1
9	Development Sprint 2
10	Progress Review 2
11	Testing & refinement
12	Deployment planning
13	Final prototype completion
14	Final presentation & demonstration
15	Report submission & viva examination



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Assessment Method:

Component	Weightage	Description
Project Proposal & Planning	10%	Assessment Rubric is given below
Progress Presentations (2 reviews)	20%	Assessment Rubric is given below
Prototype Development & Demonstration	30%	Assessment Rubric is given below
Final Report & Documentation	20%	Assessment Rubric is given below
Final Viva/Examination	20%	Assessment Rubric is given below
Total	100%	

Evaluation Rubrics

1. Project Proposal & Planning (10%)

Criteria	Excellent (4)	Good (3)	Fair (2)	Poor (1)
Problem clarity	Well-defined & feasible	Clear but moderate scope	Vague scope	Poor definition
Requirement analysis	Comprehensive	Adequate	Partial	Incomplete
Planning & timeline	Realistic & detailed	Acceptable	Weak planning	No planning

2. Progress Presentations (20%)

Criteria	Excellent	Good	Fair	Poor
Technical progress	Strong progress	Moderate	Limited	Minimal
Demonstration quality	Functional modules	Partial	Basic	Not working
Communication clarity	Clear & professional	Understandable	Inconsistent	Poor clarity

3. Prototype Development (30%)

Criteria	Excellent	Good	Fair	Poor
Functionality	Fully working	Mostly working	Partial	Limited
Innovation	Novel solution	Some innovation	Minimal	None
Code quality & structure	Well organized	Acceptable	Weak structure	Poor coding
Testing & validation	Comprehensive	Adequate	Limited	Not done



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4. Final Report (20%)

Criteria	Excellent	Good	Fair	Poor
Organization	Professional format	Acceptable	Disorganized	Poor
Technical depth	Detailed	Moderate	Limited	Very weak
Results & analysis	Strong evaluation	Adequate	Basic	Missing

5. Viva / Examination (20%)

Criteria	Excellent	Good	Fair	Poor
Conceptual understanding	Strong mastery	Good	Basic	Weak
Implementation understanding	Clear	Moderate	Limited	Poor
Problem-solving ability	Strong reasoning	Adequate	Limited	Unable

Expected Deliverables

Students must submit:

1. Project proposal
2. Regular progress presentations
3. Working prototype/application/model
4. Source code repository
5. Final project report
6. Demonstration & viva performance

Tools & Technologies (Indicative)

Depending on domain:

1. AI/ML frameworks
2. Web frameworks & databases
3. Data science libraries & visualization tools
4. Mobile application frameworks

Course Outcome Attainment Evidence

1. Prototype functionality
2. Code quality



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3. Project documentation
4. Review presentations
5. Viva performance

CO/PO Mapping (Indicative):

CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	2	2	1	–	1	–	1	–	–
CO2	2	3	3	2	2	–	1	2	1	–	1
CO3	2	2	3	2	3	–	1	1	–	–	1
CO4	2	3	2	3	2	–	–	–	1	–	–
CO5	2	2	3	2	2	–	–	1	3	–	2
CO6	1	–	2	2	3	–	1	1	–	–	1
CO7	–	–	–	–	–	3	2	2	3	2	3

Legend: '3' for high, '2' for medium, '1' for low and '–' for no correlation of each CO with PO.

Note: The CO-PO mapping is indicative; the institute/faculty member can change as required.

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