GANPAT UNIVERSITY

FACULTY OF COMPUTER APPLICATIONS

Programme	Master of Computer Applications	**Branch/Spec.**	Computer Application
Semester	III	**Version**	1.0.0.0
Effective from Academic Year	2024-25	**Effective for the batch Admitted in**	June 2024
Subject Code	P13A6SDP1	**Subject Name**	System Development Project - I

Teaching scheme						**Examination scheme (Marks)**			
(Per week)	**Lecture (DT)**		**Practical (Lab.)**		**Total**		**CE**	**SEE**	**Total**
	L	TU	P	TW					
Credit	0	0	05	0	05	Theory	0	0	0
Hours	0	0	10	0	10	Practical	60	40	100

Objective:

- Student should have developed one software project.

Pre-requisites:

- Student can study, analyze, design, implement and evaluate the information system.

Course Outcomes :

- **1 = Slight (Low); 2 = Moderate (Medium); 3 = Substantial (High); "-" = No Correlation**

Name of CO	**Description**
CO1	Analyze real-world problems and derive clear functional and non-functional requirements.
CO2	Design system architecture and detailed models (diagrams, data structures, workflows) based on user requirements.
CO3	Implement the software solution following design specifications and apply appropriate coding standards and tools.
CO4	Test, validate, and document the software solution as per the software development lifecycle, including maintenance and system-level reporting.

Mapping of CO and PO

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	2	3	2	1	–	–	–	1
CO2	2	2	3	2	–	1	–	1
CO3	2	1	3	3	2	2	1	1
CO4	1	2	3	2	2	3	2	1

Content:

	Rules of the Project:	

- The duration of the project is full time. The students can develop their project individually or in a group of two preferably.
- The project can be developed in any language / platform / tools & technology but it is required to get it approved by the head of the department. For the purpose of approval, they have to submit their project titles and proposals with the name of internal and external guides to the Head/Project Coordinator of the Department within 15 days of the commencement of the sixth semester. In case, if the student proposal is rejected, the revised proposal is required to submit and get it sanctioned within the next 10 days. Failing to do this, His/her term will not be granted.
- The students have to report to the internal guide for at least 3 times during the project lifespan with the progress report duly signed by external guide. Moreover, they have to bring these reports with the final report at the time of external examination.
- The Internal Guide/Project Coordinator of Department will give the internal marks. These marks may be given on the bases of regular reporting of the student to the internal guide, quality of project work and a report obtained from the external guide.
- The external examiners appointed by the University will give the external marks on the basis of the heads like Presentation, Demonstration, Viva Voice, Documentation etc. The distribution of the marks to different heads may be decided at the time of evaluation of the project but it is expected to have the same distribution.

Documentation:

The project has to be well-documented in the form of a Project Report (at least 50 pages comprising of the design, data dictionary, source code, screenshots etc.)

Format: Print out on both the side of page with single line spacing. Use Times New Roman of size 10 for normal text.

Students are advised preferably to make documentation in Agile.

Table of contents

No	Contents
1	Project or Company Profile
2	Functional Requirement Specification
2.1	Module Specification
2.2	User Specification
3.	
3.1	About Existing System
3.2	Need for new system
4.	Technical Requirement Specification
4.1	Hardware Requirement
4.2	Software Requirement
5.	System Flow Chart
6	UML Diagrams
6.1	Use-case Diagram
6.2	Activity Diagram
6.3	Class Diagram
6.4	Sequence Diagram
6.5	Deployment Diagram
7	Data Dictionary
8	Input & Output Design
9	Testing
10	Post implementation review
11	Future Enhancement

12 Conclusion
13 Bibliography / References

Evaluation Parameters:

Evaluation of the projects would be done considering the framework available at the Institute. The main parameter of assessment would be the ability of the students to code. Though the project and domain specific knowledge would be assessed for, the evaluation would predominantly depend on the students' ability to explain, modify or revise of code.

Coding standards should have been implemented.

Though the project would be evaluated for the entire team, the examiner should emphasize on the contribution of each team member in the project development

Total Marks (100 = 40 External + 60 Internal)

Parameters	**Marks**
Understanding & knowledge of the system	15
Presentation Skill	15
Answer to queries	15
Project Report	15

Practical Content:

NA

Text Books:

NA

Reference Books:

NA

MOOC/Certification Courses:

NA

Question Paper Scheme:

NA