Ganpat University
॥ विद्यया समाजोत्कर्षः ॥
Faculty of Computer Applications

Programme	B.Sc. IT Honours (Cyber Security)	**Branch**	Computer Applications
Semester	VI	**Version**	1.0.0.0
Effective from Academic Year	2026-27	**Effective for the batch Admitted in**	June 2024
Subject code	U66E6PR1	**Subject Name**	SYSTEM DEVELOPMENT PROJECT-I

Teaching scheme						**Examination scheme(Marks)**			
(Per week)	**Lecture (DT)**		**Practical (Lab.)**		**Total**		**CCE**	**SEE**	**Total**
	L	TU	P	TW					
Credit	-	-	4	-	4	Theory	-	-	-
Hours	-	-	4	-	4	Practical	50	50	100

Objective:

System Development Project-I is an organized method or activity of enhancing and improving the skill set and knowledge of computer science students, especially in the domain of Cyber Security. It enables students to apply their academic knowledge to real-world challenges such as threat analysis, vulnerability assessments, penetration testing, SOC operations, and cyber defense mechanisms. The project serves as a platform to build mastery in the field by designing or developing cyber security tools, frameworks, or practical solutions, thus boosting confidence and industry readiness

Pre-requisites:

- Understanding of Networking Concepts, Operating Systems, and Cybersecurity Fundamentals
- Knowledge of SDLC, OOPs, Basic DBMS concepts, and Design Techniques (DFD, UML, ER Diagram, etc.)
- Familiarity with Cyber Security Domains and tools
- Knowledge of Scripting
- Knowledge of Cybersecurity Frameworks

Learning Outcome:

Name of CO	Description
CO1	Apply fundamental cybersecurity concepts and techniques
CO2	Develop problem-solving skills through hands-on project work
CO3	Develop self-confidence and an understanding of workplace expectations in the cybersecurity field
CO4	Cultivate leadership skills to execute tasks in teams
CO5	Enhance their practical knowledge and stay updated with the latest threats, tools, and technologies

Mapping of CO and PO:

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	3	3	3	2	2	2	2	2
CO2	3	3	3	3	3	2	3	2	2	2	2	2
CO3	3	3	3	3	3	3	3	3	3	3	3	3
CO4	2	2	2	2	2	2	2	3	2	2	3	2
CO5	3	3	3	3	3	3	3	2	2	2	2	3

Content:

Unit	Content	Hrs.
	Rules: • The project development shall be carried out along with the regular subject in curriculum during the semester. The students can develop their project individually or in a group of not more than 2 students. Group size can be increased with prior approval of head of institution. • A minimum of 36% is required to pass, combining both internal and external examinations.	

- A detailed study of an enterprise application or a major IT infrastructure setup may also be accepted as valid project work. Projects may be developed using any programming language or platform, subject to prior approval by the Head of the Institution.
- For approval purposes, students must submit their project titles and proposals, including the names of both internal and external guides, to the Head of the Institution. If a proposal is rejected, a revised version—either in the same or a different domain—must be resubmitted and approved. Failure to obtain approval will result in the term not being granted.
- Students are required to meet with their internal guide at least four times throughout the duration of the project. Additionally, students must submit their project presentation in soft copy, following the prescribed format, to the internal guide at least four days prior to the scheduled internal presentation.
- External marks will be awarded by university-appointed examiners based on criteria such as presentation, demonstration, viva voce, and documentation. The distribution of marks across these components may be determined at the time of evaluation but should remain consistent.
- Internal marks will be assigned by the internal guide or the Head of the Institution, primarily based on the student's consistency in reporting and overall engagement with the internal guide.

Model for Project:

CEE-50%	SEE -50%
Exam Pattern	**Marks**
Project Evaluation(Best 4 out of 5)	40
Participation in discussion	5
Attendance	5
Continuous and Comprehensive Evaluation	**50**
Semester-End Evaluation	**50**