Ganpat University
॥ विद्यया समाजोत्कर्षः ॥

Faculty of Computer Applications

NAAC A Grade Accredited University

Programme	B.Sc. IT Honours (Artificial Intelligence & Machine Learning)	**Branch**	Computer Applications
Semester	II	**Version**	1.0.0.0
Effective from Academic Year	2026-27	**Effective for the batch Admitted in**	June 2026
Subject code	U82B3WD2	**Subject Name**	WEB DESIGNING-II

Teaching scheme

(Per week)	Lecture (DT)		Practical (Lab.)		Total	Examination scheme(Marks)	CCE	SEE	Total
	L	TU	P	T W					
Credit	2	-	2	-	4	Theory	50	50	100
Hours	2	-	4	-	6				

Objective:

To learn the advanced concepts in web designing. Students will learn jQuery, CSS3, and Bootstrap to design an interactive and responsive web page.

Pre-requisites:

Knowledge of Web Technology, JavaScript, HTML, and CSS

Learning Outcome:

Name of CO	Description
CO1	Use JavaScript to make web page alive
CO2	Define the uses of jQuery in web development
CO3	Use of CSS3 style to web page
CO4	Understand the concept of responsive Web Design and implement Bootstrap framework
CO5	Manipulate Web Page Development

Mapping of CO and PO:

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	2	2	2	3	3	2	0	2	1
CO2	3	2	2	2	2	1	2	2	2	1	2	0
CO3	3	2	2	3	2	3	3	2	3	1	1	1
CO4	2	3	3	3	3	3	2	3	2	2	2	2
CO5	2	3	2	3	3	2	2	1	2	1	2	2

Content:

Unit	Content	Hrs.
1	**JavaScript:** JS HTML dom, Regular Expression, form validation, this keyword, JS functions, JS errors, data storage-cookies, web storage, API- GEO location, and drag and drop	06
2	**jQuery:** What is jQuery? Why jQuery?, jQuery Syntax, jQuery Selectors, Event Handling, jQuery Effects,	06

	Animations, jQuery Callback functions, jQuery get/set Content and attributes, jQuery Add/remove Elements, jQuery Get and Set CSS classes, jQuery CSS method, jQuery Dimensions jQuery Utility functions –Browser Feature Detection and Array, jQuery and AJAX, jQuery Plugins	
3	**CSS3:** CSS3 vs CSS, Adding Borders and Backgrounds, Advanced Text Effects, 2D and 3D Transformations, Adding Transitions to Elements, Adding Animations to Text and Elements, CSS3 flexbox and filters	06
4	**Responsive Web Design and Bootstrap:** Difference between Multiple Devices, making a page to Work on Multiple Devices, Media Queries, Introduction to Bootstrap CSS API-Bootstrap Layout, Typography, Grid System, Bootstrap Icons, Buttons, Labels and Badges, Tables, Nav, Navbar, Panel, Progress Bar, Working with Bootstrap Template	06
5	**Project Management and Web Security:** Project planning, execution, and delivery of web design projects (Case Study), Common web security vulnerabilities (e.g., XSS, CSRF), Security best practices for web development, securing web applications using HTTPS and other measures	06
Practical Content:		
List of programs specify by subject teacher based on above mention topics		
Reference Books:		
1	The complete reference Web Design by Thomas A. Powell, Publication- Mcgraw-Hill Osborne Media, 2nd edition- 2002	
2	The Web Application Hacker's Handbook 2nd Edition by Dafydd Stuttard and Marcus Pinto, Publication Wiley-2011.	
3	Test-Driven JavaScript Development by Christian Johansen, Publication Pragmatic Bookshelf- 2010	
Web Reference:		
1	https://docs.microsoft.com/en-us/aspnet	
MOOC/Certificate Course:		
1	https://careerfoundry.com/en/blog/web-development/best-web-development-certification-programs/	
2	https://www.coursera.org/professional-certificates/ibm-full-stack-javascript-developer	
Question Paper Scheme:		
	End Semester Examination Duration: (2 Hours Theory Examination) Note for Examiner: - Q-1 Any Five out of Seven (25 Marks) Q-2 Any Two out of Three (06 Marks) Q-3 Mandatory question (05 Marks) Q-4 Any Two out of Three (08 Marks) Q-5 Any Two out of Three(06 Marks) *The question paper must comprehensively address all Course Outcomes (COs), align with Bloom's Taxonomy levels, and ensure complete syllabus coverage.	