Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Information Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective Courses (GEC) (2021-2025)

| COURSE CODE | CATEGORY | COURSE NAME | TEACHING&EVALUATION SCHEME | | | | | | | | |
| | | | THEORY | | | PRACTICAL | | | | | |
			ENDSEM University Exam	Two Term Exam	Teachers Assessment*	ENDSEM University Exam	Teachers Assessment*	L	T	P	CREDITS
GPCS101	GEC	Web Application Development	60	20	20	30	20	2	1	0	3

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** - Credit;
*__Teacher Assessment__ shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives:
1. To introduce the fundamentals concepts of HTML.
2. Describe the basic of MySQL and PHP.
3. Study the Basic terminology of CSS and JavaScript.
4. Explain the basic terminologies of Python, Perl and Angular JS.

Course Outcomes:
1. Understand the basic terminologies of HTML and CSS.
2. Be aware of the basic uses of PHP, MySQL and XML.
3. Students will be able to develop a dynamic webpage by the use of java script.
4. Develop applications for different problem.

Syllabus:

UNIT I

Introduction of HTML: HTML Documents, SGML, and Basic structure of an HTML document, Text Elements, Tag Elements, Special Character elements, Image tags, HTML Table tags and lists, Anchor tag, Name tag.
Introduction of CSS: CSS Syntax, CSS Id & Class. CSS Styling: styling Backgrounds, styling Text, styling Fonts, styling Links, styling Lists, styling Tables. CSS Box Model: Border, Outline, Margin, Padding.

COURSE CODE	CATEGORY	COURSE NAME	TEACHING&EVALUATION SCHEME								
			THEORY			PRACTICAL					
			ENDSEM University Exam	Two Term Exam	Teachers Assessment*	ENDSEM University Exam	Teachers Assessment*	L	T	P	CREDITS
GPCS101	GEC	Web Application Development	60	20	20	30	20	2	1	0	3

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

UNIT II

Introduction of XML: Cross scripting of XML, XML as intermediate language, Difference between XML and HTML, XML DOM, Tree, Syntax, Elements, Attributes, Namespaces.
Java Server Pages Basics: Integrating Scripts in JSP, JSP Objects and Components, Configuration and Troubleshooting, JSP: Request and Response Objects, Retrieving the Contents of An HTML Form, retrieving a Query String, Working with Beans, Cookies, Creating and Reading Cookies. Using Application Objects and Event Handling.

UNIT III

Introduction to PHP: Identify Relationship Between Apache, MySQL and PHP, Steps to Install and Test Web Server, Configure Apache to Use PHP, Create Simple PHP Page Using PHP Structure and Syntax, Use of PHP Variables, Data Types and PHP Operators, Apply Control Structures in Programming, Steps to Create User Defined Functions.

UNIT IV

Introduction to Python: Basic concepts of python languages, data types, variables, basic input-output operations, basic operators, Boolean values, conditional execution, loops, lists and list processing, logical and bitwise operations, functions, tuples, dictionaries, and data processing, modules, packages, string and list methods, and exceptions.

COURSE CODE	CATEGORY	COURSE NAME	TEACHING&EVALUATION SCHEME								
			THEORY			PRACTICAL					
			ENDSEM University Exam	Two Term Exam	Teachers Assessment*	ENDSEM University Exam	Teachers Assessment*	L	T	P	CREDITS
GPCS101	GEC	**Web Application Development**	60	20	20	30	20	2	1	0	3

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical;   **C** - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

UNIT V

Introduction to Perl and scripting, scripts, programs, Web scripting and PERL names, values, variable, scalar expression, control structures, and arrays. Introduction of Angular JS, Industrial usage of angular JS benefits of Angular JS.

Text Books:
1. The World of Scripting Languages, David Barron, Wiley Publications.
2. Python Web Programming, Steve Holden and David Beazley, New Riders Publications.
3. Beginning PHP and MySQL, 3" Edition, Jason Gilmore, Apress Publications

Reference Books:
1. Open Source Web Development with LAMP using Linux, Apache, MySQL, Pen and PHP, J.Lee and B.Ware(Addison Wesley) Pearson Education.
2. Programming Python,M.Lutz,SPD.
3. PHP 6 Fast and Easy Web Development, Julie Meloni and Matt Telles, Cengage Learning Publications.
4. Core Python Programming, Chun, Pearson Education.
5. Guide to Programming with Python, M.Dawson, Cengage Learning.
6. Pen by Example, E.Quigley, Pearson Education.
7. Programming Perl,Larry Wall, T.Christiansen and J.Orwant,O'Reilly, SPD.