GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Bachelor of Vocation (B.Voc.), 4th Semester
Branch: Software Development
Subject Name: Advanced Web Technology
Subject Code: 21140209

With effective from academic year 2022-23

Type of course: On-Job Training (Elective)

Prerequisite: NA

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
				Theory Marks		Practical Marks		
L	**T**	**P**	**C**	**ESE (E)**	**PA (M)**	**ESE (V)**	**PA (I)**	
-	-	15	15	-	-	100	100	200

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- EndSemester Examination; PA- Progressive Assessment

OJT Hands on Exercise/Training:

Sr. No.	Content	Total Hrs.	% Weightage
1	**Computer & Programming Concepts** PC1. Fundamental of computer PC2. Difference between an operating system and an application program PC3. Exploration of operating systems. PC4. Programming concepts, algorithms and flowcharts.	10	10
2	**Web Programming – I (HTML, CSS, Ajax)** PC1. Designing and implementation of dynamic website with goo aesthetic sense of designing and latest technical know-how's PC2. Knowledge of Web servers, HTML5, Java script for websit designing PC3. Web Application Terminologies, Internet Tools, E – Commerce and other web services. PC4. Learn and apply CSS PC5. Create forms for web pages	40	20
3	**Database Concepts** PC1. Development of an Entity Relationship Model with the appropriat entities, attributes, relationships, connectivity, and cardinality using Crow's Foot notation t represent 1-1, 1-M, and M-N relationships. PC2.Demonstration of Third Normal Form PC3.Use of SQL Data Manipulation Language to create and query sampl data. PC4.Creation and manipulation of databases	40	20
4	**Web Programming – II (PHP, Java scripts)** PC1. PHP application programming PC2. Apply Java Script	40	20
5	**Internet Terminologies** PC1. Working of internet as well as deployment of project on internet	10	10

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6	**Management Development Program** PC1. Demonstration of Good conversation skills PC2. Demonstration of Good problem-solving skills	20	10
7	**Project** PC1. Developing technological solutions to simple and complex problems.	40	10
	Total	**200**	**100**

Course Outcomes:

Sr. No.	CO Statement	Marks % Weightage
CO-1	To develop command of wideranging specialized theoretical and practical skills, involving variable routine and nonroutine contexts.	20
CO-2	To Learn Web programming concepts, Relational Database, Web Technologies	20
CO-3	To develop/test software based on practical knowledge	10
CO-4	To examine the system requirements, implement, configure and test feasible	20
CO-5	To learn management Development Program and Organizational behavior to communicate written and oral, Aptitude, basic understanding of social political and natural environment with good analytical and managerial skills	20
CO-6	To perform well and responsible for output of group and overall development	10

Reference:
https://nqr.gov.in/sites/default/files/QualificationFile_CAWT.pdf