



GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Bachelor of Vocation (B.Voc.), 2nd Semester

Branch: Information Technology

Subject Name: Web Developer

Subject Code: 1120507

With effective
from academic
year 2022-23

Type of course: On-Job Training (Elective)

Prerequisite: Web Designing

Rationale: -

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE(E)	PA (M)	PA(V)	PA(I)		
00	00	15	15	00	00	100	100	200

L- Lectures; P- Practical; OJT- On Job Training; C- Credit; ESE- End Semester Examination;
PA- Progressive Assessment

OJT Hands on Exercise/Training:

Sr. No.	Training / Hands on Exercise	Hrs.
1	<p>Contribute to the design of software products and web applications</p> <p>PC1. check your understanding of the Business Requirements Specification (BRS)/User Requirements Specification (URS) with appropriate people</p> <p>PC2. check your understanding of the Software Requirements Specification (SRS) with appropriate people</p> <p>PC3. check your understanding of High Level Design (HLD) with appropriate people</p> <p>PC4. design basic programming structures to implement functionality in line with requirements defined in BRS/URS, SRS and HLD</p> <p>PC5. review your designs with appropriate people</p> <p>PC6. analyze inputs from appropriate people to identify, resolve and record design defects and inform future designs</p> <p>PC7. document your designs using standard templates and tools</p> <p>PC8. comply with your organization's policies, procedures and guidelines when contributing to the design of software products and applications</p>	75
2	<p>Develop media content and graphic designs for software products and applications</p> <p>PC1. check your understanding of the Business Requirements Specification (BRS), Software Requirements Specification (SRS), High Level Design (HLD) and Low Level Design (LLD) with appropriate people</p> <p>PC2. access reusable components, media and graphical packages and tools from your organization's knowledge base</p> <p>PC3. convert requirements into media content and graphic designs, leveraging reusable components where available</p> <p>PC4. review media content and graphic designs with appropriate people and analyze their feedback</p> <p>PC5. record any defects and corrective actions taken to inform future work</p> <p>PC6. rework media content and graphic designs, incorporating feedback</p> <p>PC7. submit media content timely and graphic designs for approval by appropriate people</p> <p>PC8. update your organization's knowledge base with your experiences of the media content and graphic designs developed</p> <p>PC9. comply with your organization's policies, procedures and guidelines when developing media content and graphic designs for software products and applications</p>	75
3	<p>Manage your work to meet requirements</p> <p>PC1. establish and agree your work requirements with appropriate people</p>	15



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	<p>PC2. keep your immediate work area clean and tidy</p> <p>PC3. utilize your time effectively</p> <p>PC4. use resources correctly and efficiently</p> <p>PC5. treat confidential information correctly</p> <p>PC6. work in line with your organization's policies and procedures</p> <p>PC7. work within the limits of your job role</p> <p>PC8. obtain guidance from appropriate people, where necessary</p> <p>PC9. ensure your work meets the agreed requirements</p>	
4	<p>Work effectively with colleagues</p> <p>PC1. communicate with colleagues clearly, concisely and accurately</p> <p>PC2. work with colleagues to integrate your work effectively with them</p> <p>PC3. pass on essential information to colleagues in line with organizational requirements</p> <p>PC4. work in ways that show respect for colleagues</p> <p>PC5. carry out commitments you have made to colleagues</p> <p>PC6. let colleagues know in good time if you cannot carry out your commitments, explaining the reasons</p> <p>PC7. identify any problems you have working with colleagues and take the initiative to solve these problems</p> <p>PC8. follow the organization's policies and procedures for working with colleagues</p>	10
5	<p>Maintain a healthy, safe and secure working environment</p> <p>PC1. comply with your organization's current health, safety and security policies and procedures</p> <p>PC2. report any identified breaches in health, safety, and security policies and procedures to the designated person</p> <p>PC3. identify and correct any hazards that you can deal with safely, competently and within the limits of your authority</p> <p>PC4. report any hazards that you are not competent to deal with to the relevant person in line with organizational procedures and warn other people who may be affected</p> <p>PC5. follow your organization's emergency procedures promptly, calmly, and efficiently</p> <p>PC6. identify and recommend opportunities for improving health, safety, and security to the designated person</p> <p>PC7. complete any health and safety records legibly and accurately</p>	5
6	<p>Provide data/information in standard formats</p> <p>PC1. establish and agree with appropriate people the data/information you need to provide, the formats in which you need to provide it, and when you need to provide it</p> <p>PC2. obtain the data/information from reliable sources</p> <p>PC3. check that the data/information is accurate, complete and up-to-date</p> <p>PC4. obtain advice or guidance from appropriate people where there are problems with the data/information</p> <p>PC5. carry out rule-based analysis of the data/information, if required</p> <p>PC6. insert the data/information into the agreed formats</p> <p>PC7. check the accuracy of your work, involving colleagues where required</p> <p>PC8. report any unresolved anomalies in the data/information to appropriate people</p> <p>PC9. provide complete, accurate and up-to-date data/information to the appropriate people in the required formats on time</p>	15
7	<p>Develop your knowledge, skills and competence</p> <p>PC1. obtain advice and guidance from appropriate people to develop your knowledge, skills and competence</p> <p>PC2. identify accurately the knowledge and skills you need for your job role</p> <p>PC3. identify accurately your current level of knowledge, skills and competence and any learning and development needs</p> <p>PC4. agree with appropriate people a plan of learning and development activities to address your learning needs</p> <p>PC5. undertake learning and development activities in line with your plan</p> <p>PC6. apply your new knowledge and skills in the workplace, under supervision</p>	5



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	PC7. obtain feedback from appropriate people on your knowledge and skills and how effectively you apply them PC8. review your knowledge, skills and competence regularly and take appropriate action	
	Total	200

Reference:

1. <https://www.nqr.gov.in/sites/default/files/NSQF-Web%20Developer.pdf>