

**GUJARAT TECHNOLOGICAL UNIVERSITY****Syllabus for Bachelor of Vocation (B.Voc), 2nd Semester****Branch: Software Development****On-Job Training (Elective): Web Developer****Subject Code: 21120207****With effective
from academic
year 2021-22****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)		
	PA	ALA		ESE	OEP					
00	00	15	15	00	00	00	100	00	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> <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>	15

	<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> <p>PC7. obtain feedback from appropriate people on your knowledge and skills and how effectively you apply them</p> <p>PC8. review your knowledge, skills and competence regularly and take appropriate action</p>	5
	Total	200

Reference:

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