



GUJARAT TECHNOLOGICAL UNIVERSITY
Bachelor of Vocation (B.Voc), 3rd Semester
Branch: Information Technology
Subject Name: Design of Software Products & Applications
Subject Code: 1130507

Type of course: On-Job Training (Elective)

Prerequisite: NA

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			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- End Semester Examination; PA-Progressive Assessment

OJT Hands on Exercise/Training:

Sr. No.	Content	Total Hrs.	% Weightage
1	Understand Business Requirements Specification (BRS)/User Requirements Specification (URS), and Software Requirements Specification (SRS) with appropriate People	30	20
2	Check the understanding of High Level Design (HLD) concept with appropriate People	30	20
3	Design basic programming structures to implement functionality in line with requirements defined in BRS/URS, SRS and HLD	30	10
4	Review the designs with industry experts	30	10
5	Analyze inputs from superiors to identify, resolve and record design defects and inform future designs	30	10
6	Document the details of designs using standard templates and Tools	50	30
Total		200	100

Course Outcomes:

Sr. No.	CO Statement	Marks % Weightage
CO-1	Functional and non-functional software requirements	30
CO-2	Proper usage of High Level Design (HLD) Seek guidance and advice from peers or supervisors	20
CO-3	Basic requirements to prepare High Level Design (HLD)	30
CO-4	Checklists for coding standards of programming structure	20

Reference:

https://nsdcindia.org/sites/default/files/QP_SSC-Q4601_Software-Engineer.pdf

- 1) Design Patterns: Elements of Reusable Object-Oriented Software, Erich Gamma & Richard Helm.
- 2) Code Complete, Steve McConnell.