

**Structure of  
Bachelor of Vocation  
In  
Software Development**



**Dr. Babasaheb Ambedkar  
Technological University,  
Vidyavihar, Lonere, Maharashtra  
402103**

## Semester I

Sr. No.	Course Code	Name of the Course	Teaching scheme			Evaluation Scheme			Credits	Total Marks		
			L	T	P	IA	MSE	ESE				
<b>General Education</b>												
			<b>Theory</b>									
1	BVSWC101	IT Foundation and Programming Concepts	3	0	0	25	0	25	3	50		
2	BVSWC102	Web Designing	3	0	0	25	0	25	3	50		
3	BVSWC103	Programming in C	3	0	0	25	0	25	3	50		
4	BVSWC104	Operating System (OS)	3	0	0	25	0	25	3	50		
<b>Total</b>									<b>12</b>	<b>200</b>		
<b>Skill Components</b>												
			<b>Lab/Practical</b>									
5	BVSWL105	Web Designing Lab	0	0	1	25	0	25	1.5	50		
6	BVSWL106	C Programming Lab	0	0	1	25	0	25	1.5	50		
<b>On-Job-Training (OJT)/Qualification Packs (Any One)</b>												
7	BVSWE117	Technical Writer (SSC/Q0505)	200						15		200	
8	BVSWE128	Infrastructure Engineer (SSC/Q0801)										
9	BVSWE139	Associate – CRM (SSC/Q2202)										
<b>Total</b>									<b>18</b>	<b>300</b>		

## Semester II

Sr. No.	Course Code	Name of the Course	Teaching scheme			Evaluation Scheme			Credits	Total Marks
			L	T	P	IA	MSE	ESE		
<b>General Education</b>										
			<b>Theory</b>							
1	BVSWC201	Data Structures	3	0	0	25	0	25	3	50
2	BVSWC202	Concepts of Data Mining	3	0	0	25	0	25	3	50
3	BVSWC203	OOPs with Java	3	0	0	25	0	25	3	50
4	BVSWC204	Multimedia Tools & Applications	3	0	0	25	0	25	3	50
<b>Total</b>									<b>12</b>	<b>200</b>
<b>Skill Components</b>										
			<b>Lab/Practical</b>							
5	BVSWL205	Data Structure Lab	0	0	1	25	0	25	1.5	50
	BVSWL206	Java Lab	0	0	1	25	0	25	1.5	50
<b>On-Job-Training (OJT)/Qualification Packs (Any one more QP to be opted from the QPs mentioned in the semester I)</b>										
7	BVSWE217	Web Developer (SSC/Q0503)	200						15	200
8	BVSWE228	Test Engineer (SSC/Q1301)								
<b>Total</b>									<b>18</b>	<b>300</b>

### Semester III

Sr. No.	Course Code	Name of the Course	Teaching scheme			Evaluation Scheme			Credits	Total Marks
			L	T	P	IA	MSE	ESE		
<b>General Education</b>										
			<b>Theory</b>							
1	BVSWC301	Linux Operating System – Operations and Management	3	0	0	25	0	25	3	50
2	BVSWC302	Software Engineering	3	0	0	25	0	25	3	50
3	BVSWC303	Web Development using PHP	3	0	0	25	0	25	3	50
4	BVSWC304	Windows Development Fundamental	3	0	0	25	0	25	3	50
			<b>Total</b>						<b>12</b>	<b>200</b>
<b>Skill Components</b>										
			<b>Lab/Practical</b>							
4	BVSWL305	Web Development using PHP Lab	0	0	1	25	0	25	1.5	50
5	BVSWL306	Window Development Fundamentals Lab	0	0	1	25	0	25	1.5	50
			<b>On-Job-Training (OJT)/Qualification Packs ( Any One)</b>							
6	BVSWE317	Junior Data Associate (SSC/Q0401)	200						15	200
7	BVSWE328	IP Executive (SSC/Q6201)								
8	BVSWE339	Security Analyst (SSC/Q0901)								
			<b>Total</b>						<b>18</b>	<b>300</b>

## Semester IV

Sr. No.	Course Code	Name of the Course	Teaching scheme			Evaluation Scheme			Credits	Total Marks
			L	T	P	IA	MSE	ESE		
<b>General Education</b>										
			<b>Theory</b>							
1	BVSWC401	Software Testing and Project Management	3	0	0	25	0	25	3	50
2	BVSWC402	Android Application Development	3	0	0	25	0	25	3	50
3	BVSWC403	Window Configuration and Server Administration	3	0	0	25	0	25	3	50
4	BVSWC404	Management Information Systems	3	0	0	25	0	25	3	50
<b>Total</b>									<b>12</b>	<b>200</b>
<b>Skill Components</b>										
5	BVSWL405	Android Application Development Lab	0	0	1	25	0	25	1.5	50
6	BVSWL406	MIS Lab	0	0	1	25	0	25	1.5	50
7	BVSWE417	QA Engineer (SSC/Q1302)	200						15	200
8	BVSWE428	Software Engineer (SSC/Q4601)								
<b>Total</b>									<b>18</b>	<b>300</b>

### Semester V

Sr. No.	Course Code	Name of the Course	Teaching scheme			Evaluation Scheme			Credits	Total Marks		
			L	T	P	IA	MSE	ESE				
<b>General Education</b>												
<b>Theory</b>												
1	BVSWC501	Technology Trends in IT	3	0	0	25	0	25	3	50		
2	BVSWC502	Advanced PHP	3	0	0	25	0	25	3	50		
3	BVSWC503	Introduction to Python Programming	3	0	0	25	0	25	3	50		
4	BVSWC504	RDBMS	3	0	0	25	0	25	3	50		
<b>Total</b>									<b>12</b>	<b>200</b>		
<b>Skill Components</b>												
<b>Lab/Practical</b>												
5	BVSWL505	Advanced PHP Lab	0	0	1	25	0	25	1.5	50		
6	BVSWL506	Python Programming Lab	0	0	1	25	0	25	1.5	50		
<b>On-Job –Training (OJT)/Qualification Packs(Any One)</b>												
Evaluation Scheme												
						IA		ESE				
7	BVSWE517	Management Trainee (SSC/Q6301)	50				150		15		200	
8	BVSWE528	Associate - Transactional F&A (SSC/Q2301)										
9	BVSWE529	Consultant Network Security (SSC/Q0917)										
<b>Total</b>									<b>18</b>	<b>300</b>		

## Semester VI

Sr. No.	Course Code	Name of the Course	Teaching scheme			Evaluation Scheme			Credits	Total Marks
			L	T	P	IA	MSE	ESE		
<b>General Education</b>										
<b>Theory</b>										
1	BVSWC601	Introduction to AI	3	0	0	25	0	25	3	50
2	BVSWC602	E-Commerce	3	0	0	25	0	25	3	50
3	BVSWC603	Object Oriented Modelling and Design	3	0	0	25	0	25	3	50
4	BVSWC604	Advanced Java Programming	3	0	0	25	0	25	3	50
<b>Total</b>									<b>12</b>	<b>200</b>
<b>Skill Components</b>										
<b>Lab/Practical</b>										
5	BVSWL605	Advanced Java Programming Lab	0	0	1	25	0	25	1.5	50
6	BVSWL606	Industrial Project	0	0	1	25	0	25	1.5	50
<b>On-Job –Training (OJT)/Qualification Packs(Any One)</b>										
Evaluation Scheme										
						IA	ESE			
7	BVSWE617	Master Trainer for Software Developer (SSC/Q0509)	50			150			15	200
8	BVSWE628	Hardware Engineer (SSC/Q4701)								
<b>Total</b>									<b>18</b>	<b>300</b>