

B. Voc. Software Development Syllabus for First Year

Structure for Semester-I									
Course Code	Course Name	Teaching Scheme (Hours/Week)		Examination Scheme and Marks			Credits		
		Theory	Practical	ISE	ESE	Total	TH	PR	Total
BVSD-111	Problem Solving using C Language	03	---	50	50	100	03	---	03
BVSD-112	HTML 5 Programming	03	---	50	50	100	03	---	03
BVSD-113	Introduction to Database Management System	03	---	50	50	100	03	---	03
BVSD-114	Computer Fundamentals and Programming Concepts	03	---	50	50	100	03	---	03
BVSD-115	Lab Course on Problem Solving using C Language	---	04	50	50	100	---	04	04
BVSD-116	Lab course on HTML 5 Programming	---	04	50	50	100	---	04	04
BVSD-117	Lab course on Introduction to Database Management System	---	04	50	50	100	---	04	04
BVSD-118	Mini Project / On Job Training *	---	06	75	75	150	---	06	06
TOTAL		12	18	425	425	850	12	18	30
Structure for Semester-II									
Course Code	Course Name	Teaching Scheme (Hours/Week)		Examination Scheme and Marks			Credits		
		Theory	Practical	ISE	ESE	Total	TH	PR	Total
BVSD-121	Data Structure using C	03	---	50	50	100	03	---	03
BVSD-122	PHP Programming	03	---	50	50	100	03	---	03
BVSD-123	Web Development using CMS	03	---	50	50	100	03	---	03
BVSD-124	Object Oriented Software Engineering	03	---	50	50	100	03	---	03
BVSD-125	Lab Course On Data Structure using C	---	04	50	50	100	---	04	04
BVSD-126	Lab Course On PHP Programming	---	04	50	50	100	---	04	04
BVSD-127	Lab Course On Web Development using CMS	---	04	50	50	100	---	04	04
BVSD-128	Mini Project / On Job Training *	---	06	75	75	150	---	06	06
TOTAL		12	18	425	425	850	12	18	30

*On Job Training should be carried out in any one subject per semester as per NBVSDC
Guide lines for following Skill Sets:

1. Junior Software Developer (SSC/Q0508)

- 2. Web Developer (SSC/Q0503)**
- 3. Media Developer (SSC/Q0504)**
- 4. Engineer-Technical Support (SSC/Q0101)**

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Course Code	Course Name	Teaching Scheme (Hours/Week)		Examination Scheme and Marks			Credits		
		Theory	Practical	ISE	ESE	Total	TH	PR	Total
BVSD-211	Introduction to Object Oriented Concepts using Core Java	03	---	50	50	100	03	---	03
BVSD-212	Introduction to Dot Net Framework and ASP.NET	03	---	50	50	100	03	---	03
BVSD-213	JavaScript using jQuery	03	---	50	50	100	03	---	03
BVSD-214	CSS Programming	03	---	50	50	100	03	---	03
BVSD-215	Lab Course on Core Java	---	04	50	50	100	---	04	04
BVSD-216	Lab Course on ASP.NET	---	04	50	50	100	---	04	04
BVSD-217	Lab Course on JavaScript using jQuery and CSS Programming	---	04	50	50	100	---	04	04
BVSD-218	Mini Project / On Job Training *	---	06	75	75	150	---	06	06
TOTAL		12	18	425	425	850	12	18	30
Structure for Semester-II									
Course Code	Course Name	Teaching Scheme (Hours/Week)		Examination Scheme and Marks			Credits		
		Theory	Practical	ISE	ESE	Total	TH	PR	Total
BVSD-221	Programming in Advance Java	03	---	50	50	100	03	---	03
BVSD-222	Introduction to MVC Framework	03	---	50	50	100	03	---	03
BVSD-223	Introduction to Python Programming	03	---	50	50	100	03	---	03
BVSD-224	Artificial Intelligence	03	---	50	50	100	03	---	03
BVSD-225	Lab Course on Advance Java	---	04	50	50	100	---	04	04
BVSD-226	Lab Course on MVC Framework	---	04	50	50	100	---	04	04
BVSD-227	Lab Course on Python Programming	---	04	50	50	100	---	04	04
BVSD-228	Mini Project / On Job Training *	---	06	75	75	150	---	06	06
TOTAL		12	18	425	425	850	12	18	30

*On Job Training should be carried out in any one subject per semester as per NBVSDC

Guide lines for following Skill Sets:

1. Software Developer (SSC/Q0501)
2. Engineer Trainee (SSC/Q0507)

- 3. User Experience Designer (SSC/Q8404)**
- 4. AI - Data Quality Analyst (SSC/Q8101)**
- 5. Database Administrator (SSC/Q8109)**

B. Voc. Software Development Syllabus for Third Year

Structure for Semester-I									
Course Code	Course Name	Teaching Scheme (Hours/Week)		Examination Scheme and Marks			Credits		
		Theory	Practical	ISE	ESE	Total	TH	PR	Total
BVSD-311	Project Internship	--	06	425	425	850	--	30	30
Total		--	06	425	425	850	--	30	30
Structure for Semester-II									
Course Code	Course Name	Teaching Scheme (Hours/Week)		Examination Scheme and Marks			Credits		
		Theory	Pract.	ISE	ESE	Total	TH	PR	Total
BVSD-321	Android Application Development	03	---	50	50	100	03	---	03
BVSD-322	Cloud Computing	03	---	50	50	100	03	---	03
BVSD-323	Software Testing & Project Management	03	---	50	50	100	03	---	03
BVSD-324	Technology Trends in IT	03	---	50	50	100	03	---	03
BVSD-325	Lab Course on Android Application Development	---	04	50	50	100	---	04	04
BVSD-326	Lab Course on Cloud Computing	---	04	50	50	100	---	04	04
BVSD-327	Mini Project	---	04	50	50	100	---	04	04
BVSD-327	Project/On Job Training *	---	06	75	75	150	---	06	06
Total		12	18	425	425	850	12	18	30

*On Job Training should be carried out in any one subject per semester as per NBVSDC

Guide lines for following Skill Sets:

1. **Software Developer (SSC/Q6702)**
2. **Software Engineer (SSC/Q4601)**
3. **Application Developer – Web & Mobile (SSC/Q8403)**
4. **PRODUCT MANAGER – WEB & MOBILE (SSC/Q8401)**
5. **Application Architect – Web & Mobile (SSC/Q8402)**
6. **QA Engineer (SSC/Q1302)**
7. **UI Developer (SSC/Q0502)**
8. **Analyst (SSC/Q0701)**
9. **Test Engineer - Software (SSC/Q4901)**