

**B.VOC(Software Development) 3rd Year (Semester V)
2019-20, 2020-21 & 2021-22 Sessions**

Code	Title of Paper	Credits	University Examination	Internal Assessment	Max. Marks	Exam. Duration Hours
B.VSD-311	Presentation Skills and Personality Development	4	60	40	100	3
B.VSD-312	Management Information System	4	60	40	100	3
B.VSD-313	Web Development using ASP.Net	4.5	60	40	100	3
B.VSD-314	Software Testing Concepts and Tools	4.5	60	40	100	3
B.VSD-315	Software Lab – VIII	4.5	50	50	100	3
B.VSD-316	Software Lab – IX	4.5	50	50	100	3
B.VSD-317	Workshop	4	50	50	100	3
Total		30	390	310	700	

1. The breakup of marks for the practical will be as under:
 - i. Internal Assessment 50 Marks
 - ii. Viva Voce (External Evaluation) 20 Marks
 - iii. Lab Record Program Development and Execution(External Evaluation) 30 Marks

2. The breakup of marks for the internal assessment for theory Subjects will be as under:
 - i. Average of Both Mid Semester Tests / Internal Examinations 16 Marks
 - ii. Attendance 8 Marks
 - iii. Written Assignment/Project Work etc. 16 Marks

B.VSD-311 Presentation Skills and Personality Development

Max. Marks : 60 Marks
Min. Pass Marks : 35%

Min. Time : 3hrs
Lectures to be delivered: 55-65 Hrs

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections A, B and C. Each of sections A and B will have four questions from the respective sections of the syllabus and each question carry 9 marks. Section C will consist of one compulsory question having 12 parts of short-answer type covering the entire syllabus uniformly and each question will carry 2 marks.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt two questions each from section A and B and the entire section C.

Section – A : Literature

Prescribed Text : Popular Short Stories.

From the prescribed text the following stories are to be read: A Cup of Tea – Katherine Mansfield.

The Open Window – H.H. Munro („Saki“)

The Gift of the Magi – O. Henry

The Ant and the Grasshopper – W. Somerset Maugham

The Necklace – Guy De Maupassant

Section B : Grammar and Writing Skills Tenses

Voice

Narration

Letter Writing – Formal

Resume/C.V. Writing

Report Writing

Note making, Summarizing and Abstracting

Books Recommended:

The Written Word by Vandana R. Singh : Oxford University Press.

Popular Short Stories : Oxford University Press

Oxford Practice Grammar by John Eastwood : Oxford University Press

Oxford Advanced Learner“s Dictionary.

B.VSD- 312 Management Information System

Max Marks: 60

Min Pass Marks: 35%

Maximum Time: 3 Hrs.

Lectures to be delivered: 55-65 Hrs

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections A, B and C. Each of sections A and B will have four questions from the respective sections of the syllabus and each question carry 9 marks. Section C will consist of one compulsory question having 12 parts of short-answer type covering the entire syllabus uniformly and each question will carry 2 marks.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt two questions each from section A and B and the entire section C.

SECTION-A

Management Information system: Meaning and definition, Role of information system, Nature and scope of MIS.

Introduction to systems: System related concepts, elements of a system, and types of system.**Information systems:** Definition and characteristics,Types of Information,Role of Information in Decision making, general model of human as an information processor .

Sub-Systems of an Information system:EDP and MIS,management levels,EDP/MIS/DSS.

An overview of Mangement Information System:Structure and classification of MIS, Components of MIS, Framework for understanding MIS: Robert Anthony"s hierarchy of management activity, Information requirements and levels of management.

Decision making concept, types of decisions, methods of choosing among alternatives, Role of MIS in decision making.

Simon"s model of decision making, Structured and unstructured decisions.

SECTION-B

Decision Support Systems: Definition and characteristics,components of DSS, MIS versus DSS, Tools and Models for decision support. Simon"s model of decision making, Structured and unstructured decisions

Development of MIS: Stages in the development of MIS, System development approaches: Waterfall model, Prototyping, Iterative enhancement model, Spiral model.

Functional MIS: Marketing MIS, Financial MIS, Production MIS, Personnel MIS.

Text Book:

1. D.P. Goyal, "Management Information Systems: Managerial Perspectives", Macmillan India Ltd.

Reference Books:

1. Robert G. Murdick, Joel E. Ross, James R. Claggett, "Information Systems for Modern Management", Prentice Hall of India Pvt. Ltd.
2. Gordon B. Davis, M.H. Olson, "Management Information Systems: Conceptual Foundations, Structure & Development", McGraw-Hill Book Co.
3. W.S. Jawadekar, "Management Information Systems", Tata McGraw-Hill Publishing Co.

B.VSD- 313 Web Development Using ASP.NET

Max Marks: 60

Min Pass Marks: 35%

Maximum Time: 3 Hrs.

Lectures to be delivered: 55-65 Hrs

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections A, B and C. Each of sections A and B will have four questions from the respective sections of the syllabus and each question carry 9 marks. Section C will consist of one compulsory question having 12 parts of short-answer type covering the entire syllabus uniformly and each question will carry 2 marks.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt two questions each from section A and B and the entire section C.

SECTION –A

Introduction to .net framework: - Genesis of.NET, Features, Advantages and disadvantages of .net framework. Common Language Runtime:-Common Type System, Common Language Specification, .Net binaries, Microsoft Intermediate Language, Meta Data, .Net types and .net namespaces.

BASICS OF ASP. NET: - Introducing ASP .NET– Creating ASP .NET applications using command line compiler and visual studio .net IDE. Web forms, Standard Controls: - Display information, Accepting user input, Submitting form data, displaying images, using the panel control, using the hyperlink control.

Validation Controls: Using the required field validation control, using the range validator Control using the compare validator control, using the regular expression validator control, using the custom validator control, using the validation summary controls.

SECTION –B

Rich Web Controls: -Accepting file uploads, displaying a calendar, Displaying advertisement, displaying different page views, displaying a wizard. List Controls: Dropdown list control, Radio button list controls, list box controls, and bulleted list Controls, custom list controls. Grid View Controls: Grid view control fundamentals, using field with the grid view control, working with grid view control events extending the grid view control. Debugging, caching and deploying ASP .NET pages.

Master pages: - Designing Website with Master Pages: Creating master pages, Modifying master page content, Loading master page dynamically. ASP.NET security, localizing ASP .NET applications.

ADO.NET:- Changes from ADO to ADO.NET, ADO .NET Managed Providers – OleDb and SQL Managed Providers – OleDb Data Adapter Type. SQL Data Source Control: Creating database connections, executing database commands, Using ASP.NET parameters with the SQL data source controls, programmatically executing SQL data source commands, Caching database data with the SQL data Source controls.

Reference Books :

1. ASP.NET 3.5: Stephen Walther, Pearson Education, 2005
2. Andrew Troelsen – “C# and the .Net Platform” – Apress – 2001.(Unit I and II)
3. David S. Platt – “Introducing .Net” – Microsoft Press – 2002
4. ASP.NET Bible” – Mridula Parihar – Wiley-Dreamtech India Pvt. Ltd

B.VSD- 314 Software Testing Concepts and Tools

Max Marks: 60

Maximum Time: 3 Hrs.

Min Pass Marks: 35%

Lectures to be delivered: 55-65 Hrs

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections A, B and C. Each of sections A and B will have four questions from the respective sections of the syllabus and each question carry 9 marks. Section C will consist of one compulsory question having 12 parts of short-answer type covering the entire syllabus uniformly and each question will carry 2 marks.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt two questions each from section A and B and the entire section C.

SECTION –A

Fundamentals of Testing: Human and errors, Testing and Debugging, Objectives of Testing, General Principles of Testing, Roles of Tester, Software Quality Assurance (SQA)

Testing Techniques: Structural versus Functional Technique Categories, Verification versus Validation, Static versus Dynamic Testing ,Examples of Specific Testing Techniques.

Testing Technique: Equivalence Partitioning, Boundary value analysis, cause-effect graphing technique, Decision Table testing, Error Guessing

SECTION –B

Create the Test Plan :Prerequisites to test planning, Understand the Characteristics of the Software Being Developed, Build the Test Plan ,Write the Test Plan

Manual Testing: Basics of manual testing, Test Cases, Test Results, Variations of Test cases, Test Plan, Purpose and components of Test plan. Designing of test cases, Execution of test cases, Bug Life Cycle, Bug reporting, and Agile Methodology

Automation testing: Fundamentals of Automation Testing, Drawbacks of manual testing, Challenges of software test automation, Automation Lifecycle, Tools used for automation: Quick Test Professional (QTP), LoadRunner, WinRunner , TestComplete, Selenium

Reference Books:

1. Software Testing Foundations, Andreas Spillner, Tilo Linz, Hans Schaefer, Shoff Publishers and Distributors
2. Software Testing: Principles and Practices by Srinivasan D and Gopalswamy R, PearsonEd, 2006
3. Foundations of Software Testing by Aditya P. Mathur – Pearson Education custom edition 2000
4. Testing Object Oriented Systems: models, patterns and tools, Robert V Binder, Addison Wesley, 1996
5. Software Engineering – A practitioner’s approach by Roger S. Pressman, 5thEdition, McGraw Hill
6. The art of software testing by GJ Myers, Wiley.

B.VSD – 315 Software Lab – VIII (Based on B.VSD- 313)

Max Marks: 50

Maximum Time: 3 Hrs.

Min Pass Marks: 35%

This laboratory course will comprise as exercises to supplement what is learnt under paper BVSD-313.

1. Write a program to show the use of standard controls in a web form.
2. Write a program containing the list controls and its functions:
3. Write a program to show the use of file upload and calendar control.
4. Write a program to display advertisement on a web page.
5. Write a program to create an admission form for a college.
6. Write a program to demonstrate the master page.
7. Write a program to create login page which accepts user name and password, then check for authentication of the user.
 - 1-** Write a program that demonstrate a textbox for a user input name and validate it for
RequiredField Validation
1. Create a user control that displays the current date and time. Include it in a Web Form and refresh it each time a button is clicked.
2. Create a user control that receives the user name and password from the user and validates them. If the user name is “Radiant” and the password is “asp.net” then the user is authorized, otherwise not.
11. Write a program to demonstrate ADO.NET controls
12. Write a program to demonstrate submits data in database by using the ado.net controls.

B.VSD – 316 Software Lab – IX (Based on B.VSD- 314)

Max Marks: 50

Maximum Time: 3 Hrs.

Min Pass Marks: 35%

This laboratory course will comprise as exercises to supplement what is learnt under paper B.VSD-314.

Test Administration

- Test Planning
- Customization of the Test Process
- Budgeting
- Scheduling

Create the Test Plan

- Prerequisites to test planning
- Understand the Characteristics of the Software Being Developed
- Build the Test Plan
- Write the Test Plan
- Test Cases
- Test case Design
- Building test cases
- Test data mining
- Test execution
- Test Reporting
- Defect Management

Test Web site and write different test cases and their result.

Max Marks: 50
Min Pass Marks: 35%

Maximum Time: 3 Hrs.

This laboratory course will comprise as exercises to supplement what is learnt under paper BVSD-317.

1 : Reading Skills (10 Marks)

Reading at various speeds (slow, fast, very fast); reading different kinds of texts for different purposes (for example, for relaxation, for information, for discussion at a later stage etc.); reading between the lines.

Class activities :

- Newspaper reading sessions
- Diary Entry
- Class Presentations.

1- : Speaking Skills (20 Marks)

In speaking achieving desired clarity and fluency; manipulating paralinguistic features of speaking (voice quality, pitch, tone etc.) pausing for effectiveness while speaking; talk-oriented, interpersonal, informal and semiformal speaking; task-oriented, interpersonal, informal and semiformal speaking; making a short classroom presentation.

Class Activities

- Correct pronunciation of the word list (The Written Work – Vandana R. Singh) using the Oxford Advanced Learner’s Dictionary.
- Group Discussion : Use of Persuasive strategies including some rhetorical devices (for emphasizing, for instance; being polite and firm handling questions and talking in criticism of self; turn-taking strategies and effective intervention; use of body language)
- Class presentations : (Conversational Skills)

1- : Listening Skills (10 Marks)

The students should be made to understand slowly – delivered spoken material in British English

Class Activities

- Telephonic Conversation: Listening Comprehension Achieving ability to comprehend material delivered at relatively fast speed; comprehending spoken material in British English; intelligent listening in institutions such as an interview in which one is a candidate.
- Lab work

1- : Communication and Presentation Skills (10 Marks)

Class Activities

- Role Play (Minimum ten to be undertaken)
- Striking a Conversation (Minimum ten to be undertaken)
- Extemporary Speech (Minimum ten to be undertaken)
- Mock Interview

A Seminar should be undertaken on the above activities

**SYLLABUS
FOR**

B.VOC(Software Development) Third Year(Semester VI)

2019-20, 2020-21 & 2021-22 Sessions

B.VSD-321	PROJECT	400
	TOTAL	400

1. 6-month Industrial Training

Credit: 18

Internal : 150

External Viva : 250

1. Student have to submit any Three certificates from the below activities for 12 Credits of General Studies .Each certificate has 4 credits.

- a) NSS
- b) NCC
- c) Red Cross
- d) Youth Club

Project Marks Distribution

1. The evaluation committee will distribute these marks for seminar/viva/project report and for any other activity, which the committee thinks to be proper.
2. Joint projects will be allowed and joint project reports will also be accepted. Individual project reports will be recognised and the students should highlight their contributions in a joint project report.
3. The Students must prefer doing Industrial Training and try to avoid the training in the computer Institutes where there is no software development work and mere training is given. In case students are not able to find training in any Industry, they may opt for doing this project training in the Department on some live project related to the automation of any University Department functionality or any Project given by the concerned teacher.

Committee for Evaluation of project report/work:

- i. Head of the Department
- ii. Internal Guide (if any)
- iii. One or two nominee(s) of Dean, Academic Affairs
- iv. External Examiner

Quorum will be of any three members.