

BHAVNAGAR UNIVERSITY

BHAVNAGAR

(NACC Accreditation Grade “B”)

CREDIT AND SEMESTER SYSTEM
SYLLABUS

BACHELOR OF ARTS (B.A.)

VOCATIONAL COURSE IN COMPUTER APPLICATION

(In Force From Academic Year: 2011-2012)

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B.A.
Credit and Semester System Syllabus

NAME OF THE SUBJECT: COMPUTER APPLICATION

SEMESTER: 3rd

SR. NO.	PAPER NO.	NAME OF THE PAPER	TOTAL MARKS EXT+INT=TOTAL	PASSING STANDARD EXT+INT=TOTAL	TOTAL TEACHING HOURS	CREDITS
First Subsidiary:						
1	05	Introduction to Access & VB.NET	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45 Hours	03
2	06	Desktop Publishing	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45 Hours	03
Second Subsidiary:						
3	-	Web Publishing	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45 Hours	03

* <u>INTERNAL</u>	<u>MARKS</u>
Theory Test	15
Practical Test	15



B.A.
Credit and Semester System Syllabus

NAME OF THE SUBJECT: COMPUTER APPLICATION

SEMESTER: 4th

SR. NO.	PAPER NO.	NAME OF THE PAPER	TOTAL MARKS EXT+INT=TOTAL	PASSING STANDARD EXT+INT=TOTAL	TOTAL TEACHING HOURS	CREDITS
First Subsidiary:						
1	07	Programming with VB.NET – 2008	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45 Hours	03
2	08	System Analysis & Design	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45 Hours	03
Second Subsidiary:						
3	-	Database Management System – II	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45 Hours	03

* <u>INTERNAL</u>	<u>MARKS</u>
Theory Test	15
Practical Test	15



VOCATIONAL COURSE IN COMPUTER APPLICATION AT B.A.
SEMESTER – III

FIRST SUBSIDIARY:

Paper No – 05: Introduction to Access & VB.NET (Theory + Practical):

Credits: 03

Marks:		100 Marks
Marks:	Semester End Examination	70 Marks (35 Theory + 35 Practical)
	Continuous Internal Evaluation	30 Marks (15 Theory + 15 Practical)

Teaching Hours:

Theory (2 Hours) + Practical (3 Hours)
 Theory Periods per Week: 03 Theory (15 Weeks * 3 = 45)
 Practical Periods per Week: 03 Practical (15 Weeks * 3 = 45)

UNIT	DETAILED SYLLABUS	MARKS / WEIGHT
Unit – I	Working in Access 2007, Understanding Database Concepts, Opening an Existing Database, Exploring Tables, Exploring Queries, Exploring Forms, Exploring Reports, Exploring Other Access Objects, Previewing and Printing Access Objects	07
Unit – II	Creating a Database from a Template, Creating a Table Manually, Creating a Table from a Template, Manipulating Table Columns and Rows	07
Unit – III	Importing Information from Another Access Database, Importing Information from an Excel Worksheet, Importing Information from a Text File, Importing Information from an HTML File, Exporting Information to Another Access Database, Exporting Information to Excel, Exporting Information to Word, Exporting Information to a Text File, Exporting Information to an HTML File, Copying Information to Other Office Programs	07
Unit – IV	Introduction to Visual Basic.NET, Overview of Start Page, Use of Console application, Variables & Constants, Operators – Arithmetic, Logical & Relational, Decision making using If...End If, If...Else...End If, Nested If, Select...Case statements.	07
Unit – V	Arrays, Single dimension & two dimension, Dynamic Array, What is Loop? DO loop, WHILE loop, FOR loop & FOR EACH loop.	07

Breakup of Continuous Internal Evaluation:

1. Theory Test	15 Marks	
2. Practical Test	<u>15</u> Marks	
Total Marks	30 Marks	

Reference Books

1. Office 2007 – BPB Publication
2. Visual Basic.NET Programming Black Book – Steven Holzner
3. Microsoft Office Access 2007 Step By Step
4. Steve Lambert; M. Dow Lambert III; Joan Preppernau



Paper No – 06: Desktop Publishing (Theory + Practical):

Credits: 03

Marks:

100 Marks

Marks: Semester End Examination
 Continuous Internal Evaluation

70 Marks (35 Theory + 35 Practical)
 30 Marks (15 Theory + 15 Practical)

Teaching Hours:

Theory (2 Hours) + Practical (3 Hours)

Theory Periods per Week: 03 Theory (15 Weeks * 3 = 45)

Practical Periods per Week: 03 Practical (15 Weeks * 3 = 45)

UNIT	DETAILED SYLLABUS	MARKS / WEIGHT
Unit – I	<u>Tools of Corel Draw:</u> Pick tool, shape tool, eraser tool, knife tool, freehand tool, pan tool, zoom tool, interactive connector tool, Bezier tool, artistic media tool, connector line tool, interactive mesh tool, dimension tool, rectangle tool, ellipse, polygon, text, interactive fill, transparency, blend, eye dropper, outline pen, fill tool	07
Unit – II	<u>Edit Menu & File Menu:</u> New, new from template, open, close, save, save as, revent, acquire image, digital camera, import export, send, print, print preview, print setup, undo, repeat, cut, copy, pest, pest special, delete, select all, find and replace, duplicate, clone	07
Unit – III	<u>View Menu & Layout Menu:</u> Simple wire frame, wire frame, draft, normal, enhanced, rulers, grids, guide lines, bleed, frame, printable area, text, snap to grid, snap to guide lines, snap to objects, insert page, delete page, rename page, switch page, orientation, page, resize page, page setup	07
Unit – IV	<u>Arrange Menu & Effect Menu:</u> Colour adjustment, transform, lens, power clip, clear effect, copy effect, clone effect, tools outline, convert to bitmap, edit bitmap, crop bitmap, trace bitmap, resample mode, inflate bitmap, bitmap colour mask, 3D effect, ark stroke, blur, colour transform, contour, creative, distort, noise, sharpen, plug in, bitmap effect, outline	07
Unit – V	<u>Text Menu & Tools Menu:</u> Format text, Edit text, Fit text to path, fit text to frame, Align to base line, straighten text, Writing tools, Change case, make text HTML cantabile, text statistic, Font outline, option, colour management, object manager, object data manager, view manager, link manager, Colour style, palate editor, Graphic and Text style symbol and special character	07

Breakup of Continuous Internal Evaluation:

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|--------------------|-----------------|
| 1. Theory Test | 15 Marks |
| 2. Practical Test | <u>15</u> Marks |
| Total Marks | 30 Marks |

Reference Books:

1. CorelDraw X4 – The Official Guide By Gary David Bouton
2. CorelDraw X4 in simple steps By Dreamtech Publishers
3. CorelDraw X4 Unleashed By Jeff Harrison



SECOND SUBSIDIARY:

Paper – Web Publishing (Theory + Practical):

Credits: 03

Marks:

100 Marks

Marks: Semester End Examination 70 Marks (35 Theory + 35 Practical)
 Continuous Internal Evaluation 30 Marks (15 Theory + 15 Practical)

Teaching Hours:

Theory (2 Hours) + Practical (3 Hours)
 Theory Periods per Week: 03 Theory (15 Weeks * 3 = 45)
 Practical Periods per Week: 03 Practical (15 Weeks * 3 = 45)

UNIT	DETAILED SYLLABUS	MARKS / WEIGHT
Unit – I	What is HTML, Basic Tags of HTML, HTML Tag, TITLE Tag, BODY Tag, Formatting of Text, Headers, Formatting Tags, PRE Tag, FONT Tag, Special Characters, Working with Images, META Tag	07
Unit – II	Links, Anchor tag, Lists, Unordered Lists, Ordered Lists, Definition Lists, Tables, TABLE, TR and TD Tags, Cell Spacing and Cell Padding, Colspan and Rowspan Frames, Frameset, FRAME Tag, NOFRAMES Tag, Forms, FORM and INPUT Tag, Text Box, Radio Button, Checkbox, SELECT Tag and Pull Down Lists, Hidden, Submit and Reset	07
Unit – III	Java Script Variables and Data Types, Declaring Variables, Data Types, Statements and Operators, Control Structures, Conditional Statements, Loop Statements, Object-Based Programming, Functions, Executing Deferred Scripts Objects, Message box in Java script, Dialog Boxes, Alert Boxes, Confirm Boxes, Prompt Boxes, Java script with HTML, Events, Event Handlers	07
Unit – IV	What is VBScript, Adding VBScript Code to an HTML Page, VB Script Basics, VBScript Data Types, VBScript Variables, VBScript Constants, VBScript Operators, Using Conditional Statements, Looping Through Code, VBScript Procedures, VBScript Coding Conventions, Dictionary Object in VBScript Methods: VBScript Dictionary Object, VBScript Dictionary Object Properties Err Object, Methods: VBScript Err Object, Properties: VBScript Err Object	07
Unit – V	Using Dream weaver, Create a Site Home Page, Design a Page in Layout View Insert Images, Insert Text, Work in Standard View, View the Site Files, Link your Documents	07

Breakup of Continuous Internal Evaluation:

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|--------------------|-----------------|
| 1. Theory Test | 15 Marks |
| 2. Practical Test | 15 Marks |
| Total Marks | 30 Marks |

Reference Books:

1. Teach Yourself HTML 4 By Stephanie Coyyrell Bryant [IDG]
2. Beginning Java Script By Paul Wilton[Wrox]
3. Learning VBScript By Paul Lomax [O'Reily Media]



VOCATIONAL COURSE IN COMPUTER APPLICATION AT B.A.
SEMESTER – IV

FIRST SUBSIDIARY:

Paper No – 07: Programming with VB.NET – 2008 (Theory + Practical):

Credits: 03

Marks:		100 Marks
Marks:	Semester End Examination	70 Marks (35 Theory + 35 Practical)
	Continuous Internal Evaluation	30 Marks (15 Theory + 15 Practical)

Teaching Hours:

Theory (2 Hours) + Practical (3 Hours)

Theory Periods per Week: 03 Theory (15 Weeks * 3 = 45)

Practical Periods per Week: 03 Practical (15 Weeks * 3 = 45)

UNIT	DETAILED SYLLABUS	MARKS / WEIGHT
Unit – I	Introduction to Windows Programming, What is Form? Types of Form, Basic properties & Events of Form, Exceptions – On Resume & Try...Catch Block.	07
Unit – II	Basic Properties and Events of readymade controls – TextBox, Label, Command Button, Check Box & Option Button.	07
Unit – III	Basic properties & events of List-Box & Combo-Box controls, Introduction to Procedure & Function	07
Unit – IV	Use of Module, In-built function – Numeric, String, Date & Type Conversion Functions	07
Unit – V	Data Access using ADO.NET, Creating new connection, Data Adapter, Creating Data Set, Binding Controls to Database, Adding, Editing & Deleting a record from Windows Form.	07

Breakup of Continuous Internal Evaluation:

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|--------------------|-----------------|--|
| 1. Theory Test | 15 Marks | |
| 2. Practical Test | 15 Marks | |
| Total Marks | 30 Marks | |

Reference Books:

1. Microsoft Visual Basic.NET Programming Black Book By Steven Holzner
2. Microsoft Visual Basic 2008 Step by Step By Michael Halvorson



Paper No – 08: System Analysis & Design (Theory + Practical):

Credits: 03

Marks:

100 Marks

Marks:	Semester End Examination	70 Marks (35 Theory + 35 Practical)
	Continuous Internal Evaluation	30 Marks (15 Theory + 15 Practical)

Teaching Hours:

Theory (2 Hours) + Practical (3 Hours)

Theory Periods per Week: 03 Theory (15 Weeks * 3 = 45)

Practical Periods per Week: 03 Practical (15 Weeks * 3 = 45)

UNIT	DETAILED SYLLABUS	MARKS / WEIGHT
Unit – I	System – Introduction & definition, Characteristics & Basic Elements of system, Definition of Physical or abstract system, Open or Close system, Deterministic or probabilistic system, Man-made Information system – TPS, MIS, DSS & OAS	07
Unit – II	System analyst, Role of system analyst, Characteristics or Effective attributes of systems analyst, System Development Life Cycle (SDLC) method and demerit.	07
Unit – III	Preliminary investigation, System design Process, Structured design methodology, Structured Systems Analysis and Design (SSAD) method, Prototype, Sources of Project request or proposal, Fact finding techniques	07
Unit – IV	Data Flow Diagram (DFD), Data Dictionary, HIPO, Decision Tables, Decision Tree, Warmier-Orr diagrams, Nassi-Schneidermann Charts, Design of Input & Output, Input Validation, Types of Output, Form and consideration while designing a form.	07
Unit – V	Types of File, Primary key, Candidate key, Composite key, Foreign key, Normalization – First Normal Form (1NF), Second Normal Form (2NF) & Third Normal Form (3NF), Hardware & Software selection, Testing – Unit & System, Special System Tests, Client-Server Computing, Types of User, Definition of Validation, Verification, Testing & Certification, Green PC.	07

Breakup of Continuous Internal Evaluation:

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|--------------------|-----------------|
| 1. Theory Test | 15 Marks |
| 2. Practical Test | <u>15</u> Marks |
| Total Marks | 30 Marks |

Reference Books:

1. Analysis & Design of Information Systems By James A. Senn



SECOND SUBSIDIARY:

Paper – Database Management System – II (Theory + Practical):

Credits: 03

Marks:

100 Marks

Marks:	Semester End Examination	70 Marks (35 Theory + 35 Practical)
	Continuous Internal Evaluation	30 Marks (15 Theory + 15 Practical)

Teaching Hours:

Theory (2 Hours) + Practical (3 Hours)

Theory Periods per Week: 03 Theory (15 Weeks * 3 = 45)

Practical Periods per Week: 03 Practical (15 Weeks * 3 = 45)

UNIT	DETAILED SYLLABUS	MARKS / WEIGHT
Unit – I	Overview of Oracle, SQL & SQLPLUS, Data types used in Oracle, Basic SQL Commands – CREATE TABLE, DROP TABLE, INSERT INTO, TRUNCATE, SELECT with WHERE Clause only	07
Unit – II	Advance SELECT command with ORDER BY, GROUP BY & HAVING, SET operators – UNION, UNION ALL, INTERSECT & MINUS, Use of NULL, Comments, Special operators – IN, NOT IN, LIKE, BETWEEN & (concatenation), UPDATE & DELETE, Save-point & COMMIT.	07
Unit – III	Oracle Functions – CONCAT, INITCAP, INSTR, LENGTH, LOWER, LPAD, RPAD, LTRIM, RTRIM, SONDEX, SUBSTR, UPPER, ABS, CEIL, EXP, FLOOR, LN, LOG, MOD, POWER, ROUND, SIGN, SQRT, ADD_MONTHS, LAT_DAY, MONTHS_BETWEEN, NEXT_DAY, GREATEST & LEAST, TO_DATE & TO_CHAR. Group Functions – AVG, COUNT, MAX, MIN, STDDEV, SUM, & VARIANCE.	07
Unit – IV	ALTER TABLE, CONSTRAINTS – NOT NULL, CHECK, UNIQUE, PRIMARY KEY & FOREIGN KEY, Use of ON DELETE CASCADE	07
Unit – V	CREATE VIEW, Join Query, Sub Query, CREATE SYNONYM, CREATE SEQUENCE, User, Roles & Priviledges	07

Breakup of Continuous Internal Evaluation:

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|--------------------|-----------------|
| 1. Theory Test | 15 Marks |
| 2. Practical Test | <u>15</u> Marks |
| Total Marks | 30 Marks |

Reference Books:

- Oracle 8i – The Complete Reference By Kevin Loney & George Koch
- Oracle 8i DBA Bible By Jonathan Gennick & Others