Revised Syllabi for B.A - Data Processing Degree Course

Credit Based Semester System (2012-13 onwards)

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Code		Theory /Practical	Theory/ Practical	I.A	Exam	Total	Credits
		/I factical.	Tractical.				
	Fundamentals of						
DP101	Computer &	04	03	20	80	100	2
	Office Automation –I						
DP102	Office Automation Lab–I	03	03	10	40	50	1
Total		07				150	3

I Semester B.A-DATA PROCESSING

II Semester B.A-DATA PROCESSING

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Coue		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP151	Computer Fundamentals & Office Automation-II	04	03	20	80	100	2
DP152	Office Automation Lab-II	03	03	10	40	50	1
	Total 07					150	3

III Semester B.A-DATA PROCESSING

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Coue		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP201	Desktop Publishing	04	03	20	80	100	2
DP202	DTP Lab	03	03	10	40	50	1
	Total	07				150	3

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Code		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP251	Introduction to Data Analysis	04	03	20	80	100	2
DP252	Data Analysis Lab	03	03	10	40	50	1
Total		07				150	3

IV Semester B.A-DATA PROCESSING

V Semester B.A-DATA PROCESSING

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Coue		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP301	Introduction to System Analysis Design	03	03	20	80	100	2
DP302	Web Design	03	03	20	80	100	2
DP303	Web Design Lab	04	04	20	80	100	2
Total		10				300	6

VI Semester B.A-DATA PROCESSING

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Coue		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP351	Fundamentals of Visual Programming	03	03	20	80	100	2
DP352	Database Concepts and Oracle	03	03	20	80	100	2
DP353	Visual Basic and Oracle Lab	04	04	20	80	100	2
	Total	10			300 6		6

Total Marks :1200 Total number of Credits: 24

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Code	Subject The	Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP101	Fundamentals of Computer & Office Automation –I	04	03	20	80	100	2
DP102	Office Automation Lab–I	03	03	10	40	50	1
	Total	07			150 3		3

I Semester B.A-DATA PROCESSING

	DP 101: Computer Fundamentals & Office	18 hours
I AI LA-I	Automation –I	40 110015
Theory/Week: 4		I.A: 20
Hrs		Exam: 80
Credits: 2		
	UNIT-I	12 Hrs.
Introduction to Co	omputer - Introduction, Digital and Analog Computers, Char	acteristics of
Computers, History	v of development of computers, Computer generations, Class	sifications of
computers, Comput	ter system, Applications of Computer. Computer System	Hardware –
Introduction, Centra	al Processing Unit(CPU), Memory unit, Microprocessors, Int	erconnecting
units of a computer,	performance of a computer, Inside a computer cabinet.	
	UNIT-II	12 Hrs.
Computer Memor	ry and Storage devices: Introduction, memory representati	on, memory
hierarchy, CPU reg	isters, cache memory, primary, secondary memory, access, Acc	cess types of
storage devices, ma	gnetic tape, magnetic disk, optical disk, Magneto-optical disk.	Input and
Output devices:	Introduction, Input-output unit, Input devices, Human data en	ntry devices,
source data entry de	vices, output devices – hard copy devices, softcopy devices.	
	UNIT-III	12 Hrs.
Data representation	on: Introduction, Number system- Decimal, Binary, Octal, H	Hexadecimal,
conversion to diffe	rent bases, binary arithmetic, signed and unsigned numbers,	binary data
representation, Bina	ary coding schemes. Interaction of User and Computer:	Introduction,
types of software,	system software, application software. Operating System :	Introduction,
objectives of operation	ing system, types, functions, examples of operating system.	
	UNIT-IV	12 Hrs.
MS Windows : Int	roduction to M.S. Windows XP; Features of Windows; Deskt	op, structure,
Windows Explorer,	, the search, Recycle bin, configuring the screen and mous	e, adding or
removing programs	, adding new hardware, system tools, scandisk, Windows XP r	nedia player,
help, Windows Vist	a, Windows 7.	
MS Word: Introduc	ction, starting with MS Word, MSWord screen and its componer	nts, the office
button, the ribbon, s	solved examples. MS Excel: Introduction, starting with MS Ex	cel, basics of
MS Excel, the office	e button, the ribbon, solved examples.	
Text book		
Anita Goel,	Computer Fundamentals, Pearson Education, 2011.	
Reference Books	<u>^</u>	
1. Peter Norton	a, Introduction to Computers , Tata Mcgraw Hill, 6 or 7 th Editio	n
2. ITL Educati	on Solution Limited, Introduction to Information Technology	ogy, Pearson
Education, 2	.012.	
3. Saxena S, M	IS Office 2007 in A Nutshell, Vikas Publishing, 2011	
4. Vikas Gupta	, MS OFFICE 2007, Wiley	

Practical-I	Office Automation Lab-I	36 Hours
Theory/Week: 3 Hrs Credits: 2	Exercises on MS-Word and MS-Excel Packages and Windows	I.A: 20 Exam: 80

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
Code		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP151	Computer Fundamentals & Office Automation-II	04	03	20	80	100	2
DP152	Office Automation Lab-II	03	03	10	40	50	1
Total		07				150	3

II Semester B.A-DATA PROCESSING

	DD151. Commenter Frenchener Achaef 8 Office	
PAPER-II	DP151: Computer Fundamentals of & Office	48 hours
	Automation –II	
Theory/Week: 4		IA· 20
Hrs		Exam: 80
Credits: 2		LAuni. 00
	UNIT-I	12 Hrs.
Computer Progra	amming Fundamentals: Introduction, Program developmen	t life cycle,
control structure, f	low chart, pseudo code, algorithm, programming paradigms. I	Information
Systems: Introd	uction, Data, information, knowledge, Characteristics of	information,
Information system	n, Computer based Information Systems, need for efficient	Information
Systems, categorie	s of Information Systems.	
	UNIT-II	12 Hrs.
Data communicat	ion and Computer Network: Introduction, importance, data	transmission
media, Computer	Network, Wireless networking . The Internet and Internet	et Services:
Introduction, Histo	ory, Internetworking protocol, Internet architecture, managi	ng Internet,
connecting to Inter	net, Internet address, services, uses.	
	UNIT-III	12 Hrs.
Fundamentals of	f Database – Introduction, Database, Database system	ı, Database
management syste	m, Database system architectures, database applications. M	ultimedia –
Introduction, defin	ition, characteristics, elements, multimedia system features,	multimedia
applications. Con	nputer Security – Introduction, security threat and secu	urity attack,
malicious software	e, security services, Digital signature, firewall, user identi-	fication and
authentication.		
	UNIT-IV	12 Hrs.
MS PowerPoint:	Introduction, Basics of MS Power point, MS Power point sc	reen and its
components, the o	ffice button, the ribbon, an example. MS Access: Introduction	on, database
terminology, start	MS Access, MS Access screen and its components, the office	e button, the
ribbon, solved exa	mple. Network and Internet connections - Introduction, s	tart network
connection, create	a new connection, manage a network connection, network setu	up, windows
firewall, sharing of	files, setup internet properties, choosing an internet connection	n.
Text book		
Anita Goel,	Computer Fundamentals, Pearson Education, 2011.	
References		
1. Peter Norto	n, Introduction to Computers, Tata Mcgraw Hill, 6 or 7 th Ed	ition
2. Saxena S, N	AS Office 2007 in A Nutshell, Vikas Publishing, 2011	
3. Vikas Gupt	a, MS OFFICE 2007, Wiley	

Practical-II	Office Automation Lab-I	36 Hours
Theory/Week: 3 Hrs Credits: 2	Exercises on MS-Access and MS-Powerpoint Packages	I.A: 20 Exam: 80

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper Code	Subject Title	Hrs. per week	Duration of Exams	Marks	Marks and C		Credit	
		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits	
DP201	Desktop Publishing	04	03	20	80	100	2	
DP202	DTP Lab	03	03	10	40	50	1	
	Total	07				150	3	

III Semester B.A-DATA PROCESSING

PAPER-III	DP201: DESKTOP PUBLISHING	48 hours			
Theory/Week: 4 Hrs		I.A: 20			
Credits: 2		Exam: 80			
	UNIT-I	12 Hrs.			
Desktop Publishing:	Introduction, The steps in conventional publishing, the s	teps in Desktop			
publishing, uses of DTP, Desktop publishing programs					
PageMaker: Introduct	tion, Creating and opening publications, Opening publication	ations created in			
previous PageMaker v	versions, about templates, applying masters to new page	s as you create			
them, working with Pa	lettes, Adding text and graphics to templates, Building you	ır own template,			
specifying a save optio	n preference, Setting up pages-Changing document setup of	ptions, Creating			
master pages, Applyin	g master pages, Applying Grids, Text Formatting and w	vord processing:			
Threading text blocks,	Threading text frames. Balancing columns-controlling p	age and column			
breaks, Adding jump	lines, Formatting characters, Formatting paragraphs-Sett	ing indents and			
tabs-Adding rules abov	ve or below paragraphs, Using paragraph styles-Understan	ding how text is			
composed-Tracking ty	pe-Setting word and letter spacing-Customizing hyphena	tion for specific			
words- Customizing h	yphenation for paragraphs-Leading: Adjusting the space b	between lines of			
text. Grouping and	ungrouping objects, locking objects- Masking object	s-Aligning and			
distributing objects-Ro	otating, skewing, and reflecting objects. Drawing and ex-	diting lines and			
shapes-Using frames-C	Changing the stacking order of objects- Cropping a Graphi	c-Wrapping text			
around graphics- Attac	hing a graphic to text. Using image control on a bitmap -U	Jsing Photoshop			
effects- Compressing a	and decompressing a TIFF image- Viewing images on-sci	reen at different			
resolutions		40.77			
		12 Hrs.			
Photoshop: Getting st	arted with Photoshop, Opening an Existing File, The Pho	toshop Program			
window, Screen Mode	es, Saving Files, Reverting Files, Closing Files, Preferences	, working with			
images: vector and bit	map images, image Size, image Resolution, Editing image	s, Opening Files			
Colore Eile Formate	Making Solaction The Grow and Similar Commands Mov	ind background			
colors, rile rollias, r	lactions Conving a Selection in to another Image Fill	ing a Polution			
Transforming selection	ne Drawing Drawing and Petouching Tools: The Pain	ting Tools The			
Drawing tools The R	etouching Tools I avers Palette Working with I avers	Laver Effects			
Type Creating Type	Type Tool Moving the Text Creating Paragraph Type	, Layer Effects			
bounding Box Changing the Type settings Converting the Doint Type, Resizing Type,					
Converting Type Layers to Standard Layers Type Making Filters. The Filter Manu Filter					
Gallery Extract Filter Liquify Filter Vanishing Point Filter Artistic Filters Rhur Filters Rrush					
Stroke Filters, Distort Filters, Noise Filters, Pixelate Filters, Lighting Effects, Difference Clouds,					
Sharpen Filters, Sketch	Filters, Stylize Filters, Other Filters	lierenee erouus,			
	UNIT-III	12 Hrs.			
CorelDraw Basics : Getting started with CorelDraw, The CorelDraw Screen, Property Bar,					
Drawing Basic, Geom	netric Figures, Drawing Polygon, Creating a File. Open	ing in Existing			
CorelDrawing, Views, the View Manager, Undoing, Redoing, and Repeating action, Drawing and					
Selecting: Getting familiar with the Toolbars, Getting started with the Project, more about Lines,					

Working with Objects shapes, using the transformation Decker, Adding Effects to Object, Working with Text-The Text Tool, Getting started with the book cover, converting from one text type to another, Formatting Text, The text editor

Credit Based Semester System, 2012-13 onwards

UNIT-IV	12 Hrs.
CorelDraw advanced: The Text Images: Working with Images, importing Images	, resizing,
rotating and skewing images, copying an image, importing images from a CD, cor	overting to
Bitmap, Adding special effects to bitmaps, Exporting files to other applications, pul	olishing to
PDF, Managing color for display, Input and Output, Working with color profiles, B	ackup and
Recovering Files, Page Layout and Background: Changing the page size, Changing	g the Page
Layout, Changing the page Background, Page Frame, Inserting Pages, Renami	ng Pages.
Deleting Pages, Rulers, Templates, Creating a new Templates	
Text Books:	
1. M.C Sharma, Desk Top Publishing on PC , BPB Publications, 2000.	
2. Adobe, Adobe PageMaker 7.0 - Classroom in a Book, BPB Publications,	2002.
3. Gary David Bouton, CorelDRAW X5 : The Official Guide, Tata Mcgraw	Hill
Education Private Limited, 2011.	
4. Robert Shufflebotham, Photoshop CS5 in Easy Steps, Tata Mcgraw Hill Ed	ducation
Private Limited, 2010.	
Reference Books:	
1. Kevin G Proot, Adobe PageMaker 7.0, Cengage Learning India, 2009.	
2. Kogent Learning Solutions Inc., CorelDraw X5 in simple steps, Dreamtech	ı Press,
2011.	
3. Lisa Danae Dayley, Brad Dayley, Adobe Photoshop CS5 Bible, Wiley's Ind	dia
Publications, 2011.	

Practical-III	DP202: DTP Lab	36 Hours
Theory/Week: 3 Hrs Credits: 2	Lab Exercises in PageMaker, Photoshop and CorelDraw	I A: 20 Exam: 80

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper Code	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP251	Introduction to Data Analysis	04	03	20	80	100	2
DP252	Data Analysis Lab	03	03	10	40	50	1
Total		07				150	3

IV Semester B.A-DATA PROCESSING

PAPER-IV	DP 251: INTRODUCTION TO DATA	48 hours
	ANALYSIS	
Theory/Week: 4 Hrs		I A: 20
Credits: 2		Exam: 80
	UNIT-I	12 Hrs.
Progressions: Application	n of Arithmetic Progression and Geometric Progression.	Arithmetic
progressions finding the	nth term of an AP and also sum to nth terms of ar	AP. Insertion of
Arithmetic means in give	in terms of AP and representation of AP. Geometric pr	ogression: finding
nth term of GP. Interest A	Applications: Simple interest, compound interest includi	ng half yearly and
quarterly calculation, Inst	allment Purchases (Cost of Installment, Effective rates,	amortization of a
Ioan) Percentage and Kall	os Applications: Percents, Commissions, Discounts, e.g	,, offi discounting,
mark up and concepts of r		10 II.
Introduction Definition	UNIT-II and scope of statistics	12 H IS.
Classification Tabulatio	and Scope of statistics,	oto Proporation of
tables Presentation of Da	ta Variable Fraguency Fraguency Distribution Cum	ala, Flepalation of
Diagrammatic representat	ion of data Histogram Pie chart Line graph Frequency	nolygon Ogive
Measures of Central Val	Jues: Arithmetic Mean Median Mode Geometric Mean	Harmonic Mean
Relation between the mea	sures of central tendency	, marmonie wiean,
Measures of Dispersion:	Range Quartile Deviation or semi-interquarti	le range. Mean
Deviation. Standard Dev	viation. Relation between the measures of dispersion	on. Coefficient of
variation.		.,
	UNIT-III	12 Hrs.
Index Numbers: Definit	ition, Methods of Construction of Index Numbers,	Index numbers-
Laspeyere-Passche-Fisher	's price and quantity index numbers-Time reversal and f	actor reversal tests
Time Series-Different co	mponents-Trend analysis by moving average and Leas	t squares method-
Measurement of Cyclical	variation by residual method-Measurement of seasonal v	variation by simple
average and ratio to movin	ng average method-Irregular variation	
	UNIT-IV	12 Hrs.
Regression: Introduction,	Regression model, estimation using Regression line, the	method of least
squares, Two regression e	quations, Regression coefficients and properties.	.1 1 0
Correlation : Concept an	d importance of correlation, types of correlation, graphic	method of
correlation, algebraic metr	lods of correlation, co-efficient of determination, Rank co	orrelation
Toyt books.		
1 Padmalochan Hazarik	a A Textbook of Business Mathematics 2 nd Edition S	Chand
Publishing 2010 (Un	it I)	. Chand
2 B L Agarwal Basic S	tatistics 5 th Edition New Age International ltd Publish	ers 2011(Unit [.] II
& III)		2011(Chit. II
3. G C Beri, Business St	tatistics, 3 rd Edition, McGraw Hill, 2011 (Unit: IV)	
Reference Books:		
1. S.C. Gupta, Fundame	entals of Statistics, Sultan Chand & sons, Delhi.	
2. D.N. Elhance, Funda	mentals of Statistics, Kitab Mahal, Allahabad.	
3. Asthana, Hari Shanka	r, Bhushan, Braj, Statistics for Social Sciences (with SI	PSS
Applications), PHI, 2	007	
4. Rutkosky, Excel 2007	, BPB	

Practical -IV	DP 252: Data Analysis Lab	36 Hours
Theory/Week: 3 Hrs	Mathematical and Statistical exercises using MS- Excel or	I.A: 10
Credits: 1	SPSS package	Exam: 40

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper Code	Subject Title	Hrs. per week	Duration of Exams	Marks	Mar	ks and (Credit
		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP301	Introduction to System Analysis Design	03	03	20	80	100	2
DP302	Web Design	03	03	20	80	100	2
DP303	Web Design Lab	04	04	20	80	100	2
Total		10				300	6

V Semester B.A-DATA PROCESSING

	DP301: INTRODUCTION TO SYSTEM	40 h
PAPER-V	ANALYSIS AND DESIGN	48 nours
Theory/Week:3 Hrs		I.A: 20
Credits: 2		Exam: 80
	UNIT-I	12 Hrs.
System concepts an	d the information system environment: Introduction, system	stem and its
parts, system concep	ts, organization, managers and information, computer based	information
system. System Deve	elopment life cycle: Introduction, The six phases of system	analysis and
design, system doc	ument considerations, life cycle models, Different ap	proaches to
improvement develop	oment, object oriented analysis and design. Role of the syst	tem analyst:
Introduction, System	n analysts role and other organizational responsibilities	in system
development, Analyti	cal, technical, managerial and interpersonal skills, ethics.	
		4.0.11
	UNIT-II	12 Hrs.
Requirement deter	mination and specification: Performing requirements de	etermination,
traditional methods	for requirement determination, contemporary methods for	determining
systems requirement	s, radical methods for determining system requirements,	requirements
determination using a	gile methodologies.	
	UNIT-III	12 Hrs.
Process modeling: us	sing DFDs in analysis process: Logic modeling using struct	ured English
and decision trees, Co	onceptual data modeling and ER models.	
	UNIT-IV	12 Hrs.
Designing forms and	reports, designing databases, input and output design, System	
development: SDLC		
1		
Text Book:		
J. B. Dixit, Ra	ij Kumar, Structured System Analysis and Design , Laxmi P	ublications,
2008.		
Reference Books:		
1. Senn, Analys	is and Design of Information Systems, 2 nd Edition, Tata Mc	Graw Hill
2. Elias M Awad	l, System Analysis and Design, 2 nd edition, Galgotia Publica	tions Pvt
Ltd, New Dell	hi	

PAPER-VI	DP 302: Web Design	48 hours
Theory/Week: 3 Hrs		I A: 20
Credits: 2		Exam: 80
	UNIT-I	12 Hrs.
Internet Basic - Intro	duction to HTML - List - Creating Table - Linking docum	ent Frames -
Graphics to HTML Do	c - Style sheet - Style sheet basic - Add style to document - C	Creating Style
sheet rules - Style she	et properties - Font - Text - List - Color and background of	color - Box -
Display properties.		
		10.11
.	UNIT-II	12 Hrs.
Introduction to Javas	cript - Advantage of Javascript - Javascript Syntax – Data ty	pe - Variable
- Array - Operator and	Expression - Looping Constructor - Function - Dialog box.	
	UNIT-III	12 Hrs
JavaScrint document	object model - Introduction - Object in HTML - Even	t Handling -
Window Object - Doci	ument object - Browser Object - Form Object - Navigator	object Screen
object - Build in Object	t - User defined object - Cookies.	
	UNIT-IV	12 Hrs.
ASP. NET Language	e Structure - Page Structure - Page event, Properties	& Compiler
Directives. HTML serv	ver controls - Anchor, Tables, Forms, Files. Basic Web ser	ver Controls-
Label, Textbox, Button	, Image, Links, Check & Radio button, Hyperlink. Data Lis	t Web Server
Controls - Check box li	ist, Radio button list, Drop down list, List box, Data grid, Rep	peater.
Text Book		
Ivan Bayross, Web	Enabled Commercial Application Development Us	ing HTML,
JavaScript, DHTML	& PHP, BPB Publications, 2009	
Defenence Deelve		
1 Sean McManus	Web Design in Fasy Stans. Tata McGraw hill education pu	rivate
limited 2011	, web besign in Easy Steps, Tata Meoraw hill education pr	livate
2 Paul I Deitel H	Jarvey M. Deitel Internet & World Wide Web: How to P	rogram 4th
Edition PHL 20	$\frac{1}{10}$	ogram, tu
3. Greg Buczek. A	SP.NET: Developer's Guide. Tata McGraw Hill Education	private
limited, 2002	·····	1
4. Kogent Learnin	g Solutions Inc, HTML5 Black Book: Covers CSS3, Javas	cript, XML,
XHTML, Ajax	, PHP and Jquery (With CD), Dreamtech press, 2011	- /
5. Jon Duckett, Be	ginning HTML, XHTML, CSS and Javascript, Wiley Ind	lia Pvt Ltd,
2010	•	

Practical-VI	DP303: Web Design lab	48 Hours
Theory/Week: 4 Hrs	Exercises on Web design	I.A: 20
Credits: 1		Exam: 80

B.A-DATA PROCESSING COURSE PATTERN AND SCHEME OF EXAMINATIONS

Paper Code	Subject Title	Hrs. per week	Duration of Exams	Marks	Marks and Cre		Credit
		Theory /Practical.	Theory/ Practical.	I.A	Exam	Total	Credits
DP351	Fundamentals of Visual Programming	03	03	20	80	100	2
DP352	Database Concepts and Oracle	03	03	20	80	100	2
DP353	Visual Basic and Oracle Lab	04	04	20	80	100	2
Total		10				300	6

VI Semester B.A-DATA PROCESSING

PAPER-VII	DP 351: FUNDAMENTALS OF VISUAL	48 hours			
	PROGRAMMING	10 110 110			
Theory/Week: 3 Hrs		I. A: 20			
Credits: 2		Exam: 80			
	UNIT-I	12 Hrs.			
Introduction to Visual	Basic: Features of Visual Basic; The Integrated Developmen	t Environment;			
The Menu Bar; The To	ool Bar; The Project Explorer; The ToolBox; The Properties;	Window; The			
Form Designer; The For	rm Layout; The elements of the user; Interface; Designing the	User Interface;			
Event – Driven Program	nming, Variables in Visual Basic: What is a variable; Decla	aring variables:			
Explicit, Implicit; Types	s of variables; Converting variable types: Data type conversion	n, Functions of			
Visual Basic; User-Defi	ined Data Types: TypeEndType; Special Values: The Em	pty value, The			
Null Value, The Nothing	g Value, The Error Value; Scope of a Variable: Procedure level	, Module level;			
Constants: Declaring c	onstants, scope of constants; Arrays: Declaring Arrays, M	ultidimensional			
Arrays, Dynamic Arra	ays – Redim and Preserve keyword; Handling Operator	rs: Arithmetic,			
comparison, Logical.					
		12 Hrs.			
Handling Strings: Var	riable length, Fixed length; String Functions: StrComp, Str	Conv, Format,			
Lcase, Ucase, Space, St	ring, Len, Lset, Rset, Instr, Left, LTrim, Mid, Right, Rtrim, T	rim, Asc, Chr,			
Mathematical, Date	Functions: abs, Exp, Fix, Int, Rnd, Sng, Sqr, Date, Now, I	ime, DateAdd,			
DateDiff, DateValue, C	Control Flow statements: If Then, If Then Else, Sel	ect Case, Loop			
statements: Do Loop	p: Do while Loop, Do Until Loop, Do Loop while, Do	o Loop Until,			
For Next, For Each . Expection Exit Sub: Next	Next Loop, while wend, The Exit statement: Exit For	, EXIL DO, EXIL $mont$			
Function, Exit Sub; Nes	LINIT II	12 II.			
Toxt Downer Creating	UNII-III Multiling Word Wrop toxt hoves(Multiling property): Aligni	12 nrs.			
hoves (Alignment Pror	withinite, word-wrap text boxes(Multiline property), Aligin	taxt box road			
only(Locked Property):	Disabling a text hoy (Enabled Property): Accessing text in a	text box Teau-			
Property): Creating a pa	ussword control: Events: LostEocus, GotEocus, Change, Com	nand Buttons.			
Setting the cantion(Ca	untion Property): Setting a Buttons Background color(Ba	ckcolor Style			
Property): Setting a But	tons Text color (Forecolor Property): Setting a Buttons Fonts()	Font Property):			
Disabling Buttons(Enab	led Property). Showing and Hiding Buttons(Visible Property).	Adding picture			
to a Buttons(Picture Property). Events: Click LostEccus GotEccus Check Roy Ontion Buttons.					
Setting and getting a Cl	neckBox's state(Value Property). Click Event: Setting and get	ting an Option			
Button's state(Value Pro	poperty). Click Event. List Boxes: Adding items to a list box(Ad	ditem method):			
Referring to items in a	a list box(List Property): Removing items from a list box.	Sorting a list			
box(Sorted Property): Determining number of items in a list box (ListCount Property): Clearing a list					
box(Clear method): Events: Click, DblClick, Combo Boxes: Creating simple Combo Boxes, Drop-					
Down Combo Boxes and Drop-Down list Combo boxes(Style Property): Adding items to a Combo					
Box (AddItem Method)	; Removing items from a Combo Box(RemoveItem Method	d); Getting the			
current selection in a Co	ombo Box(Text Property); Sorting a Combo Box (Sorted Property)	rty); Clearing a			
Combo Box (Sorted Pro	perty); Getting number of items in Combo Box (Listcount Pro	operty); Events:			
Change, Click, DblClic	k,Scroll Bar:Adding Horizontal or vertical scroll Bars to a	form; Setting			
Scroll Bars Minimum and Maximum values (Min and Max Property); Setting up Scroll Bars Clicks					
(Largechange Property); Setting up Scroll Bars; Clicks SmallChange Property); Setting a Scroll Bar's					
Current Value(Value Property); Showing and Hiding Scroll Bar(Enabled, Visible Property); Control					
Event: Scroll, Change, Picture Boxes and Image Controls: Adding a Picture Box to a form; Setting or					
getting the picture in a picture Box(Picture Property, LoadPicture Property); Adjusting Picture Box					
size to contents(Autosi	size to contents(Autosize Property); Aligning a Picture Box in a form(Align Property); Events:				
Change, Click, DblClick	A.: Adding an Image Control to a form.; Stretching an imag	e in an Image			

Control (Stretch Property	y); Events: Click, D	blClick		
		UNIT-IV		12 Hrs.
Dialog Boxes: Using different types of Dialog boxes in the application: Predefined Dialog Box,				
Custom Dialog Box,	Common Dialog E	Box, The Timer co	ontrol: Adding a Tin	mer Control to a
program; Initialising a	Timer Control(Ena	bled, interval Prop	perty); Handling a Tir	ner Events(Timer
Event);Frame Control	:Uses; Adding a fra	ame to a program;	Setting frame size an	d location(height,
width, left, top Pro	operty); Other pr	roperties (Caption	n, Name, appearan	ce, ToolTipText
Property), Labels: Add	ing a label to a p	rogram; Properties	s: caption, Top, Left	, Width, Height);
Advantages of Labels	over Text Boxes;	Formatting text	in Labels: Autosize,	Wordwrap, Font
Property); Aligning Te	ext in Labels(Alig	nment Property);	Handling Label Con	trol Events(click,
DblClick)				
Text Book:				
	N <i>T</i> / N <i>T</i> 7 ·			

Evangelos Petroutsos, Mastering Visual Basic 6, Wiley India Pvt. Ltd.

Reference Books:

- 1. Steven Holzner, Visual Basic 6 Programming Black Book, Dreamtech Press
- 2. Gary Cornell, Visual Basic 6 From the Ground Up, McGraw-Hill Osborne Media
- 3. Mohammed Azam, **Programming with Visual Basic 6.0**, Vikas

	DP 352: DATABASE CONCEPTS AND	
PAPER-VIII	ORACI F	48 hours
Theory/Week•3 Hrs	ORACLE	ΙΔ· 20
Credits. 2		Fyam: 80
	LINIT-I	12 Hrs
Database System Con	cents and Architecture: History of Database Systems Database	e Systems versus
File Systems Data Ab	straction Data independence Schemas and Instances Data i	nodels Database
Languages Database I	Isers DBA Structure of Database Systems Data Modeling 1	ising E-R model
Entity types sets A	ttributes Keys Relationships Relationship Types Roles	and Structural
Constraints Weak Enti	ity sets F-R Diagrams Data Models- Relational Network	and Hierarchical
models	ty sets, E K Diagrams, Data Models Relational, Network	and meraremea
	LINIT.II	12 Hrs
Creation of Database:	Creating changing and dropping the tables Integrity Constra	ints specification
maintaining reference	e integrity constraints Data insertion deletion an	d modification
Ouerving the database	: Information retrieval using SELECT statement Various feat	ures of SELECT
statement Aggregate	functions ORDER BY clause Working with expressions	and sub queries
Handling of multiple ta	bles Views · Creation of views modification data insertion	and limitations of
views.		
	UNIT-III	12 Hrs.
PL/SQL Basics: Introd	luction, character set, reserve words, Block structure, Data t	ypes, Conditional
statements, looping sta	tements, procedures, functions. Oracle Transactions	
	UNIT-IV	12 Hrs.
Cursors: Implicit and	l explicit cursors, cursor attributes, cursor FOR loops, triggers	
Text Books :		
1. Silberschatz an	d Korth, Database System Concepts, McGraw Hill Publication	n. (Chapter 1).
2. Elmasri and Na	avathe, Fundamentals of Database Systems, Pearson Educatio	n Asia
Publication		
(Chapter 3)		
3. Ivan Bayross, C	commercial Application Development using Oracle D2K, BP	B Publications.
(Chapter 1, 2, 3))	
Reference Books:		
1 T D (l l
1. Ivan Bayross, S	SQL: PL/SQL : The programming Language, BPB Publication	ons

Practical-VI	DP353: Visual Basic and Oracle Lab	48 Hrs.
Theory/Week: 4 Hrs Credits: 2	Programming exercises in Visual Basic and Oracle.	I.A: 20 Exam: 80