Course Code	Allied T/P C H/W						
22BCEA1	MS Office T 3 3						
Objectives	To understand the basic concepts of Windows operating sys	tem.					
	To enable the students in crafting professional word do	cuments	s, exc	el spread			
	sheets, power point presentations using the Microsoft suite of	of office	tools.				
Unit –I	MS Windows – Concepts – Features – Windows Structure	– Deskt	top – T	Faskbar –			
	Start Menu– My Computer My Pictures – My music – Wo	rking wi	ith Re	cycle Bin			
	- Managing files and folders: exploring hard disk – creating	g new to	older, s	searching			
	files and folders – disk –navigating between folders – copin	g and m	ioving	Tiles and			
	Point Word and Character Man: Windows Explored	calculat	or – N ring h	ord disk			
	coping and moving files and folder from one drive to	another	Enter	tainment			
	Installation of Hardware and Software. Using sc	anner.	syster	n tools.			
	communication, sharing information between computers.)	5	,			
Unit – II	MS Word: Introduction to MS Office – Features & area o	f use – S	Startin	g Word –			
	Parts of Word Window - Mouse operations - Keyboard of	operation	ns – N	lenus &			
	Commands – Toolbars and their icons – Shortcut Menus – Toolbars	Wizards	and T	emplates			
	- Creating a New Document - Different Page Views and	ıd layoı	ıts – .	Applying			
	various Text Enhancements; Working with – Styles, Tex	t Attrib	ites; F	'aragraph			
	and Page Formatting; lext Editing using various feature.	s; Bulle	ts, Nu Iootum	mbering,			
	Check Thesaurus Find & Replace: Headers & Footers: Ins	erting_	Page 1	Vumbers			
	Pictures Files Autotexts Symbols etc. Working with Col	umns 7	Tage T	Indents:			
	Creation & Working with Tables including conversion to a	and from	n text:	Margins			
	& Space management in Document: Mail Merge. Envelops & Mailing Labels.						
Unit – III	MS Excel: Introduction – area of use – Concepts of Wo	rkbook	& Wo	orksheets:			
	Using Wizards; Various Data Types - Using different feature	res with	Data,	Cell and			
	Texts: Selecting cells – Selecting cells with mouse – Ente	ring and	l Editi	ng text –			
	Entering numbers, formulas and dates – Text alignment –	Inserting	g, Ren	10Ving &			
	Resizing of Columns & Rows; Working with Data & Rang	ges; Diff	ierent	Views of			
	Calculations & Functions; Cell Formatting including Borders & Shading:						
	Working with Different Chart Types; Printing of Workbook & Worksheets with						
	various options.						
Unit – IV	MS PowerPoint: Introduction & area of use - Creating	g a Nev	v Pres	sentation;			
	Opening - Saving - Closing - Working with Presentation	Using V	Wizaro	ls; Slides			
	& its different views: Creating, Inserting, Deleting and Cop	ying of	Slides	; Menus:			
	File – Edit – View – Insert – Format – Tools – Slide Sho	w – Wi	ndow	– Help –			
	Working with Notes, Handouts, Columns & Lists; Adding	Graphi	cs, So	unds and			
Unit V	Movies to a Silde; Printing Presentations, Notes, Handouts	Storting	$\frac{10000}{2000}$	ons.			
Unit – v	Database Creation – Table Creation using Table Wizard	– Table	Creati	Access –			
	Design view – Saving Database – Ouerv – Form – Reports	1 4010	Cicat	ion using			
Books for Refere	ence:						
Windows XP	Complete Reference. BPB Publications						
MS Office XF	complete BPB publication						
MS Office 20	00 by Sanjay Saxena, Vikas publishing house pvt Ltd.						
MS Windows	MS Windows XP Home edition complete, BPB Publications						
I.T. Tools and	Applications, A. Mansoor, Pragya Publications						
Outcomes	 Students will able to understand the concept of Wind Students will able to work with office automation to 	dows op ols.	erating	g system			

Course Code		Allied	T/P	С	H/W		
22BCEAP1		MS-Office -Lab	Р	2	2		
Objectives	To unders To know a	tand the concepts of office automation tools bout formatting the text using tools and how to a	ccess the	e datab	base.		
MS-WORD	1. Wo Ren 2. Wo 3. Sty fro 4. Lis 5. Tal 6. Gra 7. Spo 8. Pag foo 9. Ma 10. Ma 11. We Hy	 Working with Files – Creating and opening documents, Saving documents, Renaming documents, working on multiple documents. Working with Text – Formatting, Moving, copying and pasting text Styles – Apply a style, Apply from the Style dialog box, Create a new style from a model, Modify or rename a style, Delete style. Lists – Bulleted and numbered lists, Nested lists, Formatting lists Table Manipulations. Graphics – Adding clip Art, Add an image from a file, Editing a graphic Spelling and Grammar, AutoCorrect Page formatting – Page margins, page size and orientation, Header and footers, page numbers Mail Merge. Macros – Recording a macro, Running a macro Web wizard – Using the Web Wizard, Creating & Saving web pages, Hyper links. 					
MS-EXCEL	1. Mc and cop 2. Ma 3. For 4. For 5. Lin 6. Son 50 7. Gra 8. Ch	bdifying a Worksheet – Moving through cells, Ad d columns, Resizing rows and columns, Select oying cells, Freezing panes acros – recording and running. matting cells – Formatting toolbar, Dates and tim mula and Functions. aking worksheets – Relative, absolute and mixed a rting and Filling – Basic ascending and descents, Alternating text and numbers with Auto fill, A aphics – Adding clip art, add an image from a file arts – Using chart Wizard, Copy a chart to Micros	dding we ing cell nes, Auto reference nding so utofillin soft Wor	orkshe s, Mo o form ing orted, g fund rd	ets, rows ving and atting. Complex ctions.		
MS-POWER POINT	1. Cre 2. Wc Cha Cus 3. Ad box 4. Vio 5. Co 6. Ad 7. Sav	eate a Presentation from a template. orking with Slides-Insert a new slide, Applying nging slide layouts, Reordering slides, H tom slide show 7 edit. ding Content – Resizing a text box, Text box p leo and Audio effects. lor Schemes & Backgrounds ding clip art, Adding an image from a file ve as a web page.	ng a de Hide sli ropertie:	esign des, s, Dela	template, Create a ete a text		
MS-ACCESS	1. U 2. O 3. S 4. C 5. D da re 6. D 7. S re	sing Access database wizard, pages and projects. ppen an existing database, converting to Access 20 creen Layouts – Database window, Design view, reating Tables – Create a Table in design view, ield validation rules. vatasheet Records – Adding, Editing, Deleting eleting columns & Resizing rows and columns, F eplacing, Print a datasheet. veclaring Table Relationships. orting and Filtering – Sorting, Filter by selection emoving a filter.	000 Datashe Primar record inding d on, by f	et viev y key, s, Ad ata in Form,	w Indexes, ding and a table & saving &		

	 Queries – Create a query in design view, Query Wizard, Find duplicates query ,Delete Forms – Create a form using the wizard, Create a form in Design View. Form Controls. Sub forms – Create a form and sub form at once, Sub form wizard, Drag and drop method. Reports – Using the wizard, Create in Design View, Printing reports. Importing, Exporting, Linking. 				
Text Book	DE fou Windows 08 Made Simple" 2006 D.V. Towali, TATA McConvullill				
PC SOF IWAR	<i>E for Windows</i> 98 <i>Made Simple</i> , 2006, K.K. Taxali, TATA McGrawhill Company Limited New Delhi				
1 uonsining v	Company Linned, New Denn.				
"Introduction to McGraw H	<i>Computers with MS-Office 2000</i> " 2001, Alexis Leon & Mathews Leon, TATA ill Publishing Company Limited, New Delhi.				
Book for Reference:					
" <i>Microsoft Office</i> ", Gordon Padwick, Sue Plumley, Debbie walkowski, Prentice Hall of India Private Limited, New Delhi.					
Outcomes:	Students will able to understand the Word, Power Point concepts				
	Students will able to work with database using Access, Excel.				

Course Code		Allied	Allied T/P C H/W						
22BCEA2		DIGITAL PRINCIPLES & COMPUTER ORGANIZATION	Τ	3	3				
Objectives	AA	 To understand the basic concepts of Digital electronics To enable the students in knowing the basic concepts of gates, electronic circuits and their working principles. 							
Unit –I	N to D N	umber Systems and Codes: Binary Number system – Bir binary – hexa decimal – ASCII code – Excess-3 Code – igital Logic: The Basic Gates – NOT, OR, AND - Univer AND.	ary to de Gray coo sal Logi	cimal le. c Gate	–decimal s – NOR,				
Unit – II	C (m C (- O)	Combinatorial Logic Circuits: Boolean Laws and Theorems Sum of Products method - Truth table to Karnaugh Map – Pairs, Quads, Octets – Don't Care Conditions - Product-of sums method -Product-of sums Simplifications. Data Processing Circuits: Multiplexers – Demultiplexers-1-of-16 Decoder – BDC- todecimal Decoders – Seven-segment Decoders – Encoders – Exclusive-							
Unit – III	A R	rithmetic Circuits: Binary Addition- Binary Subtraction - epresentation - 2'S Complement Arithmetic – Arithmetic	- 2'S Cor Building	nplem g Bloc	ent ks.				
Unit – IV	Ba or in re M m pr	Basic Computer organization and Design: Instruction codes - stored program organization - Computer registers and common bus system - Computer instructions - Timing and control - Instruction cycle: Fetch and Decode - Register reference instructions. Micro programmed Control: Control memory organization - Address sequencing, micro instruction format and symbolic microinstructions - symbolic micro-							
Unit – V	Central Processing Unit : General register organization - stack organization - instruction formats - addressing modes - Data transfer and manipulation - Program control. CISC and RISC - Parallel processing - Pipeline- general consideration. Input-output organization: Peripheral devices - I/O interface - Memory								
Text Book: Digital Princip	ple	s and Applications – Donald P Leach, Albert Paul Malvi	o. Gouta	ımSah	a. 8th				
edition,	Mc	Graw-Hill Education, 3rd reprint 2015. 2.	,		.,				
Computer Sys	sten	n Architecture, M. Morris Mano, Pearson Education, 3rd	edition.,	2007					
UNIT I Chapters 5: (5.1 to 5.9) and 2: (2.1 to 2.3) Text Book 1 UNIT II Chapters 3: (3.1 to 3.8) and 4: (4.1 to 4.7) Text Book 1 UNIT III Chapters 6: (6.1 to 6.8) Text Book 1 UNIT IV Chapters 5 (5.1 to 5.5) and 7 (7.1 to 7.3) Text Book 2 UNIT V Chapters 8 (8.1 to 8.8), 9 (9.1 to 9.2), Text Book 2 11 (11.1 to 11.5) and 12(12.1 to 12.3) Image: Concepts of Digital									
	 Electronics Students will able to design circuits and how to implement. 								

Course code	Allied	T/P	С	H/W
22BCEAP2	DIGITAL PRINCIPLES & COMPUTER ORGANIZATION LAB	Р	2	2
Objectives	 To Understand the Digital Electronics Practically To know how to solve gates and other functions. 			
 AND, O Universa Verificat Laws) Verify D Verify D Verificat Sum of I Study of I Study of Study of Study of Half and Half and 	R and NOT Gate using Truth Table lity of NAND & NOR gates. ion of Boolean laws using NAND gates (Associative, Commu e-Morgans theorem ion of Boolean laws using NOR gates (Associative, Commutative & Products using NAND gates and Product of Sums using NOR Gates ary parallel adder and Subtractor IC 7483 using IC 7473 RS, D, T and JK Flip-Flops with IC's. Encoder & Decoder. Multiplexer & De-Multiplexer. Full Adder using Simple & NAND Gates. Full Subtractor using Simple & NAND Gates.	tative & Dist 3.	& Di ributiv	stributive ve Laws)
Outcomes	 Students were able to solve simple gate functions. Students were able to solve and Design circuits using IC. 			

Course Code		Allied	T/P	С	H/W			
22BCEA3		Operating System	Т	3	3			
Objectives	AA	 Understand the basic components of Operating Systems and their interactions. Understand the basics of Process Management, Memory Management, Deadlock Management and File Systems. 						
Unit –I	Int har op Pro	ntroduction: What is an operating system? History of operating system, computer hardware, different operating systems, operating system concepts, system calls, operating system structure. Processes and Threads: Processes, threads, interprocess communication, hecheduling, IPC problems.						
Unit – II	Mo spa sys Fil ma CI	Memory Management: No memory abstraction, memory abstraction: address spaces, virtual memory, page replacement algorithms, design issues for paging systems, implementation issues, segmentation. File Systems: Files, directories, file system implementation, file-system management and optimization, MS-DOS file system, UNIX / Linux file system, CD ROM file system						
Unit – III	De de Ca Lin Ar Ap Mo	Deadlocks: Resources, introduction to deadlocks, the ostrich algorithm, deadlock detection and recovery, deadlock avoidance, deadlock prevention, issues. Case Study: Overview of Linux, Linux Goals, Interfaces to Linux, The Shell, Linux Utility Programs, Kernel Structure. Android and Google - History of Android - Design Goals - Android Architecture - Linux Extensions - Android Applications. History of Windows-MS-DOS-based Windows, NT-based Windows, Modern Windows.						
Unit – IV	Linux :Basic features, advantages, installing requirement, basic architecture of Linux system. Commands for files and directories cd, cp, mv, rm, mkdir,more, less, creating and viewing files, using cat, file comparisons, View files, disk related commands, checking disk free spaces. Essential linux commands.							
Unit – V	Understanding shells, Processes in linux – scheduling of processes at command, batch commands, kill, ps, who,sleep, Printing commands, grep, fgrep, find, sort,cal, banner, touch, file related commands – ws, sat, cut, grep, dd, etc. Mathematical commands – bc, expr, factor,units. Vi, joe, vim editor. Shell programming: Shell programming basic, various types of shell, shell programming in bash, conditional and looping statements, case statements, parameter passing and arguments, shell variables, shell keywords, use of grep in shell, awk programming.							
Books for Refer	ence	:						
Modern Operat	ing S	Systems-Andrew S. Tanenbaum, Herbert Bos- 4th Edition	-Pearson	n Prent	tice Hall			
Operating Syste	ems (Concepts-Abraham Silberschatz-Peter Baer Galvin- Greg	g Gagne-	8th Ed	ition			
Operating Syste	ems I	Internals And Design Principles- William Stallings-Eight	th Editio	n				
Linux Command Line and Shell Scripting Bible-Christine Bresnahan and Richard BLUM								
Outcomes	A	 Explain the structure and functions of operating systems along with their components, types and working. Elaborate the system calls for process management and file management 						
	> Make use of appropriate Linux commands.							

ZEDECATS Image: Control of the set of	Course Code Allied T/P C H/W CODEFAD2 C I D I D						
 a pwd, cd, absolute and relative paths, ls, mkdir, rmdir b file, touch, rm, cp. mv, rename, head, tail, cat, tac, more, less, strings, chmod 2.Linux commands: Working with files: a ps, top, kill, pkill, bg, fg b grep, locate, find, locate c date, cal, uptime, w, whoami, finger, uname, man, df, du, free, whereis, which d Compression: tar, gzip 3.Windows (DOS) Commands a Date, time, prompt, md, cd, rd, path. b Chkdsk, copy, xcopy, format, fidsk, cls, defrag, del, move. c Diskcomp, diskpart, doskey, echo d Edit, fc, find, rename, set, type, ver 4.Write a Shell script that displays list of all the files in the current directory to which the user has read, write and execute permissions.? 5.Write a shell script that takes argument and reports on whether it is directory, a file, or something else. 6.Write a Shell script to list all of the directory files in a directory. 7.Write a awk script to find the number of characters, words and lines in a file? 8.Write a shell script that accepts a file name, starting and ending line numbers as arguments and displays all the lines between the given line numbers. 10. Write a shell script that accepts on or more file name as arguments and converts all of them to upprease, provided they exist in the current directory. 11. Write a Shell script to find factorial of a given integer. 12. Write a Shell script to find factorial of a given integer. 13. Write a Shell script to find biggest no from two nos. 13. Write a Shell script to find biggest no from two nos. 14. Installation of Linux operating system on virtual machine. 15. Installation of Windows operating system. 	22BCEAP3 Operating System Lab P 2 2 1 Linux commands: Working with Directories:						
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	15.Installation of Windows operating system.						

Course code	de Allied T/P C H/W						
22BCEA4		Internet and Web Design	Т	2	2		
Objectives	 To learn more about markup languages To understand various web services 						
Unit -I	Internet and	the World Wide Web: What is Internet? Introduct	ion to int	ternet a	ind its		
	applications,	E-mail, telnet, FTP, e-commerce, video conferencin	ng, e-busi	ness. Ir	nternet		
	service provi	ders, domain name server, internet address, Wor	ld Wide	Web a	nd its		
	evolution, un	iform resource locator (URL), browsers, search eng	ine, web s	server,			
	HTTP protoc	ol, Routers, Gateways, Bridge, Switches, Subnet and	d Intranet	•			
Unit-II	HTML: Intro	oduction, Why HTML5? Formatting text by using	g tags, us	sing lis	ts and		
	backgrounds,	Creating hyperlinks and anchors. Style sheets, CSS	S formatti	ing text	t using		
	style sheets,	rmatting paragraphs using style sheets. Creating navigational aids:					
	planning site	organization, creating text based navigation bar, c	reating g	raphics	based		
	navigation ba	ar, creating graphical navigation bar, creating ima	ge map, 1	redirect	ting to		
	another URL	, creating division based layouts: HIML5 semantic	tags, crea	ting			
Unit III	Creating tabl	acting fit will semantic rayout, positioning and form			na tha		
	width of the	column merging table cells using tables for no	e table, s	t forn	ng the		
	tables apply	ing table borders, applying background and foregrou	ige layou ind fills	changi	ng cell		
	nadding spa	cing and alignment creating user forms: creating h	asic form	usino	check		
	boxes and	option buttons, creating lists, additional input	t types	in H1	ΓML5.		
	Incorporating	sound and video: audio and video in HTML5, HTM	ound and video: audio and video in HTML5 HTML multimedia basics				
	embedding v	ideo clips, incorporating audio on web page.					
Unit -IV	Java Script: I	Java Script: Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript					
	Objects, JavaScript Security, Operators, Conditional and Looping Statements-Break,						
	continue, User Defined Function. Array, Date, Math, Number, Object, String, regExp.						
Unit =V	Document an	nd its associated objects: document, Link, Area, A	nchor, In	nage, A	Applet,		
	Layer . Even	ts and Event Handlers : General Information about	Events,D	efining	Event		
	Handlers, ev	vent, onAbort, onBlur, onChange, onClick,onD	blClick,	onDrag	gDrop,		
	onError, on	Focus, onKeyDown,onKeyPress, onKeyUp, onI	load, on	Mouse	Down,		
	onMouseMo	ve,onMouseOut, onMouseOver, onMouseUp, onMo	ve, onRes	set,onR	.esize,		
Doforonce or	d Toythooks						
Web D	la Textbooks.	nlate Reference Thomas Powell Tata McGrow Hil	1				
	5 Stan by Stan	Esithe Wenner Microsoft Dress	1				
		-rathe wempen-Microsoft Press					
HIML 5 Black Book-2nd Edition - Dreamtech Press -2016							
Head F	Head First H1ML 5 Programming-Eric Freeman-O'Reilly						
Web T	echnologiesA	Computer Science Perspective-Jeffrey C. Jackson-	Pearson	Educati	ion.		
Outcomes	Understan	d web essential concepts and to design simple web p	bages usir	ngmark	up		
	 Understan 	d style properties and able to build dynamic web page	ges using	scrintin	ıg		
	language.		B	P •••	0		

Course Code	Allied	T/P	C	H/W		
22BCEAP4	Web Designing Lab	P	2	2		
1. Design a web page using different text formatting tags.						
2. Design a web page with links to different pages and allow navigation between web pages.						
3. Design a web page d	emonstrating all Style sheet types .					
4. Design a web page w	vith Image maps.					
5. Design a web page d	emonstrating different semantics.					
6. Design a web page w	vith different tables.					
7. Design a web page w	ith a form that uses all types of input controls.					
8. Design a web page er	mbedding with multimedia features.					
9. Write a JavaScript pr	ogram to find the factorial value.					
10. Write a JavaScript J	program to print the Fibonacci series.					
11. Design a form and	validate all the controls placed on the form using Java	Script.				
12. Write a JavaScript p	program to display all the prime numbers between 1 a	nd 100.				
13. Write a JavaScript J	13. Write a JavaScript program to accept a number from the user and display the sum of its digits.					
14. Write a program in JavaScript to accept a sentence from the user and display the number of						
words in it. (Do not use	words in it. (Do not use split () function).					
15. Write a java script	program to design simple calculator.					