Course code	se code: Allied- IA T/P								
22BSOA1	Office Automation	Т	3	3					
Objectives	> To learn the office software suite and do basic operations on document	S							
	To learn formatting features of Word package and design page layout,	I o learn formatting features of word package and design page layout, tables and news columns							
	 To learn the Excel package and create worksheets workbooks formulas to fill the data 								
	automatically draw charts from data and perform what if analysis								
	 To learn Access package and design database elements Table Ouerv Form Reports and 								
	manipulate them.	01111, 11	oporto	und					
	 To learn powerpoint package and make presentation slides with various layouts, formats and animations 								
Unit -I	MS Word Exploring Word 2007: Working in the Word Environment	- Open	ing, N	loving					
	Around in, and closing Document - Creating and Saving A Documen	t – Pre	viewin	ig and					
	Printing Document - Editing and Proofreading Documents: Making Changes to document -								
	Inserting Saved Text – Finding the Most Appropriate Word – Reorganizing	a Docu	ment C	Jutline					
	- Finding and Replacing Text - Correcting spelling and Grammatical	errors	– Fina	alızıng					
Unit II	Document. MS Word Changing the Look of Text: Quickly Formatting Text and Par	agraphs	Ma	muolly					
Unit-II	changing the look of characters – Manually changing the look of paragra	agraphs – (creatir	ng and					
	modifying Lists-Presenting Information in Columns and Tables : Preser	ting In	format	tion in					
	Columns – Creating Tabular List – Presenting Information in a Table	– Form	natting	Table					
	Information – Performing Calculations in a Table- Using a Table to control	Page La	ayout.						
Unit -III	MS Excel Setting Up a Workbook : Creating Workbooks – Modifying Workbooks	kbooks	- Moc	lifying					
	Worksheets – Working with Data and Data Tables : Entering and Revising Data – Moving Data								
	within a Workbook- Finding and Replacing Data – Correcting and Expanding Upon Worksheet								
	Data – Defining a Table – Performing Calculations on Data : Naming Creating Formulas to Calculate Values – Summarizing Data that meets S	; Group	os oi i Condit	Jata –					
	Finding and Correcting Errors in Calculations- Changing Document Appear	ance	Conun	10115 -					
		unee.							
Unit- IV	MS-Access: Introduction – Parts of an Window: - Creating a New Data Ba	se – Ta	hle Wi	zard _					
	Renaming – Saving the Database – Relationships – Ouery – Form – Ren	orts - 1a	Exitin	σ MS-					
	Access.	50115	Exitin	5 1115					
Unit_ V									
	MS PowerPoint Starting a New Presentation – Working with Slide Tex	t:Ent	ering	Γext –					
	Editing Text – Adding and Manipulating Text Boxes – Correcting and Siz	ing text	t - Ch	ecking					
	Adjusting the Slide Layout, Order and Look : Changing the Layout of a	lignmen	it, Spa Poorr	cing –					
	Slides in a Presentation – Applying a theme -Switching to a Different Cold	or Schei	me = A	Adding					
	Shading and texture to the background of a slide – Delivering a Presentation	1 Electro	onically	v.					
Text Book:			•	,					
Joyce	Cox and Team, 2009 Step by Step 2007 Microsoft Office System, PHI lean	rning Pi	rivate l	td, New					
Delhi									
Reference Bo			• ,						
Sanja	y Saxena, 2006 MS-Office 2000 for everyonel, Vikas Publishing House Pvt.	Lta, Rej	orint.						
Outcomes	 To be able to create documents in office packages, store and retrieve To be able to design letters reports books wrapper pages and performance 	rm spel	lina an	b					
	grammar check.	in spen	ung un	~					
	\succ To be able to create workbooks for business applications and perform	n powe	rful wł	nat-if					
	analysis on data by grouping and classifying them.		1						
	To be able to create and maintain database for any applications and of forms and reports based on user defined sussiant.	lesign c	olorfu	I					
	To be able to make colorful presentations for education/bus	iness/m	eeting	with					
	powerpoint slides.		counge	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

Cours	e code:		lied Practical-IA		T/P	С	H/W		
22BSC	DAP1	C	Office Automation L	ab	Т	2	2		
Objec	tives 🗲	To create letter, report, book	chapters, news colu	mns and wrappers usi	ng word p	acka	ge.		
	\succ	To create production letters	by merging data from	n data source with ma	in docum	ent fo	or mass		
		communication							
		To create excel worksheet v	with data for the giv	en problem and auto	fill formu	lae, p	erform		
		To create database for the c	arts.	d query form and re	mort and i	naka	it as a		
		full-fledged database system	given application, ad	a query, form and re	port and i	пакс	n as a		
	\succ	To create powerpoint presen	tation with colourful	slides for the given a	pplication	L			
MS - W	/ORD			0	11				
1.	Preparing a	n Official Letter / Business	Letter / Circular Let	ter Covering formattin	ng comma	nds -	font		
	size and sty	les - bold, underline, upper	case, lower case, sup	erscript, subscript, in	denting pa	aragra	aphs,		
	spacing bet	ween lines and characters, ta	b settings etc.,						
2.	Preparing a	newsletter: To prepare a new	vsletter with borders	, two columns text, he	eader and	footer	and		
	inserting a	graphic image and page layo	ut.						
3.	Creating an	d editing the table to create	a table using table 1	nenu, to create a mor	nthly caler	ıdar ι	ısing		
	cell editing	operations like inserting, jo	ining, deleting, splitt	ting and merging cell	s, to create	e a si	mple		
	statement f	or math calculations viz. Tota	alling the column.						
4.	Creating n	umbered lists and bulleted	lists to create num	bered list with diffe	erent forn	nats (with		
_	numbers, al	phabets, roman letters), to cr	eate a bulleted list w	ith different bullet ch	aracters.				
5.	Printing en	velopes and mail merge, to	print envelopes with	from addresses and	to address	ses, to) use		
	mail merge	iling labels	ular letter to many	persons, to use mai	I merge I	acility	/ Ior		
6	printing ma	ing labers.		ret to onell about and	a a waa at t		auata		
0.	Using the s	pecial features of word to fin	id and replace the te	xt, to spell check and	correct, u	5 gen	erate		
		items for a document.							
MS - E	XCEL								
7.	Using form	ulas and functions: To prepa	are a Worksheet sho	wing the monthly sal	les of a co	ompai	ıy in		
	different br	anch offices (Showing Total	Sales, Average Sale	s).					
8.	Creating a	Chart: To create a chart for c	comparing the month	ly sales of a company	y in differe	ent br	anch		
	offices.								
9.	Sorting Dat	a, Filtering Data and creation	n of Pivot tables.						
10.	10. Create a sales table using the following data :								
	Item	Yearl	Year2	Year3	Yea	r4			
	Kice Sugar	950	1050	1100	1200				
	Dal	<u> </u>							
	a. Draw fl	he bar graph to compare the	sales of the three iter	ns for four years	1500]		
	b. Draw a	line graph to compare the sa	les of three items for	r four years using inse	ert option				
		Brophi to Sompare die Bu							

c. Use condition, to highlight all the cells having value >=1000 with red color (Use conditional formatting).

MS - POWERPOINT

- 11. Creating a new presentation based on a template Using Auto content wizard, design template and plain blank presentation.
- 12. Creating a presentation with slide transition Automatic and Manual with different effects.
- 13. Creating a presentation applying custom animation effects applying multiple effects to the same object and changing to a different effect and removing effects.
- 14. Creating and printing handouts.

MS - ACCESS

- 15. Create a database "Student" with
 - a. At least one table named "Mark Sheet" with field name "Student Name, Roll Number, Mark1, Mark2, Mark3, Mark4, Total"
 - b. The data types are, Student Name : text, Roll Number : number, Mark1 to Mark4 : number, Total : number. Make Roll Number the primary key.
 - c. Enter data in the table. The total must be calculated using update query.
 - d. Use query for sorting the table according to the descending/ascending order of the total marks.
- 16. In addition to the table above,
 - a. Add an additional field "Result" to the "Mark Sheet" table.
 - b. Enter data for at least 10 students.
 - c. Calculate the result for all the students using update query. (If total > = 200, then pass, else fail).
 - d. Search the students, whose name starts with "An".
 - e. Show the names and total marks of the students who have passed the examination.

Reference and Textbooks:-

Joyce Cox and Team, 2009 Step by Step 2007 Microsoft Office System, PHI learning Private ltd, New Delhi.

Sanjay Saxena, 2006 MS-Office 2000 for everyonel, Vikas Publishing House Pvt. Ltd, Reprint.

Outcomes	> To be able to open, Save and close and integrate the documents from other packages.
	> To be able to format text in word documents, design layouts and preview or print them.
	\succ To be able to create worksheets with data for the given application and generate
	statistical reports and summary of data for what-if analysis.
	> To be able to design data tables and manipulate them according to user requirements.
	> To be able to create colourful presentations in different layouts, slide designs and with
	animations.

Course code	: Allied- IB	С	H/W					
22BSOA2	PROGRAMMING IN C	Т	3	3				
Objectives	To learn the fundamentals of computer programming							
	 To learn the use of operators and statements in C language 							
	To learn the ways to write user defined functions, arrays and string of	lata.						
	To get know-how knowledge on pointers, structures and union feature	res in C	2					
	To learn the importance of file storage and create simple data files.							
Unit -I	Overview of C: Introduction to algorithm, flowchart, structured programming concept,							
	programs – Compiler, Interpreter. Introduction to C Language: The C char	acter se	et, ider	ntifiers				
	and keywords, data types, constants, variables and arrays, declarations, exp	ressions	s, state	ments,				
	type conversion, symbolic constants.							
Unit-II	Operators, I/O functions and Control Structures in C							
	Operators and expressions: Arithmetic operators, unary operator, rel	ational	and	logical				
	operator, assignment operators, the conditional operator, type conversion	n, Libra	ary fu	nction.				
	Data input and output: Single character input, single character output, sc	anf, pri	ntf, pu	ts gets				
	functions, interactive programming. Control statement: Branching: if else	stateme	ent, Lo	oping,				
	nested control structure, switch statement, jumping statements.							
Unit_ III	Functions: Overview function prototypes passing arguments to a	function	ı reci	ursion				
	Arrays: Defining an array passing array to functions multidimensional	arravs	string	s one				
	dimensional character array array of strings	unuys,	5011116	.g. one				
Unit- IV	Pointers: Fundamentals, passing pointers to a function, pointers and one dimensional arrays,							
	dynamic memory allocation, operation on pointers, pointer to an array, pointer to string, pointer							
	to structure, pointers to function, array of pointers.							
	Structures and unions: Defining a structure, processing a structure, user defined data types,							
	structure and pointers, passing structure to function, self-referential structures, and union.							
Unit -V	Data files: opening and closing a data file, File Management Functions, re	eading a	and wr	iting a				
	data file, processing a data file, and unformatted data file, concept of b	oinary f	ile, Ra	andom				
	access.							
Reference an	d Textbooks:-(APA Format)							
Brian	W Kernighan & Dennis Ritchie, 2001 The c programming language, III	nd editi	on Ea	astern				
	Economy Edition, Prentice Hall							
Byron	S Gottfried, 2010 Programming with C, Schaum's outlines 2nd Edition.							
Forou	zan, 2007 Computer Science: A Structured Programming Approach Usin	ıg C, 3	rd Cei	ıgage				
Pradip	Dey, ManasGhosh,2007 Programming in C, Oxford Higher Education							
Yasha	vantKanetkar,2008 Working with C, BPB publication							
Outcomes	\succ To be able to understand the structured programming concepts, T	Fokens	and U	se of				
	different Data types in a computer program.							
	\succ To be able to use Operators, Input and Output functions and Cont	rol Stru	ictures	in C				
	Programs							
	\blacktriangleright To be able to write programs to solve simple programs involving for f	ew inpu	it data	using				
	single, Multi dimensional Arrays and Functions,							
	> To become familiar with Structures and Unions in grouping data in	user-de	fined	ways.				
	\succ To be able to write programs to get data from user and store in files							

Course cod	e:	Allied Practical-I B	T/P	С	H/W
22BSOAP2		Programming in C Lab	Т	2	2
Objectives		To learn the basics of C programming language and write solution to a	proble	n by v	vriting
		a C program.			
		To learn the use of various operators and control statements in C to solv	e prob	lems.	
		To learn the use of array data structure to group homogeneous data to	gether	and p	rocess
		them.	aluin	much	lama
		To learn how to create user defined functions, pointers and use them in s To learn how to create and manipulate data files using C program.	sorving	g prob	lems
1. Imple	ementa	ation of the various Data Types in C.			
2. Dem	onstra	tion of for loop.			
3. Dem	onstra	tion of dowhile loop.			
4. Dem	onstra	tion of while loop.			
5. Dem	onstra	tion of nested if (Hint: Use logical operators).			
6. Dem	onstra	tion of switch case structure.			
7. Imple	ementa	ation of arrays.			
8. Imple	ementa	ation of multidimensional arrays (Hint: implement matrix operation).			
9. Imple	ementa	ation of functions (Hint: Demonstrate call by value, call by reference).			
10. Dem	onstra	tion of various string operations (Hint: Usage of user defined functions o	nly all	owed)	
11. Dem	onstra	tion of pointer operations.			
12. Dem	onstra	tion of recursion (Hint: GCD, factorial, Fibonacci series).			
13. Imple	ementa	ation of structures (Hint: simple structure operations, array of structures).			
14. Imple	ementa	ation of pointers to structures.			
15. Dem	onstra	tion of dynamic allocation of memory (Hint: malloc, calloc, realloc, free)).		
16. Dem	onstra	tion of various file operations on different types of files.			
Reference a	nd Tex	xtbooks:-(APA Format)			
Briar	n W H Econc	Kernighan & Dennis Ritchie, 2001 <i>The c programming language</i> , II omy Edition, Prentice Hall.	nd ed	ition	Eastern
Byro	n S Go	ottfried, 2010 Programming with C, Schaum's outlines 2nd Edition.			
Foro	uzan, Learn	2007 Computer Science: A Structured Programming Approach Usi	ng C,	3rd	Cengage
Pradi	pDey,	ManasGhosh, ,2007 Programming in C, Oxford Higher Education.			
Outcomes		 Understand basic structure of C program and concepts in problem solv Design solution procedures to solve simple problems Design solution procedures to solve complex problems using controloops. Use pointers in programs instead of arrays in order to use concomically. 	ving. rol sta ompute	temen r's m	ts and emory
		Create and manipulate files for permanent storage and retrieval of data	a.		

Course code	:	Allied-II A	T/P	С	H/W			
22BSOA3	τ.	Electronic Publishing	Т	3	3			
Objectives		To understand the building blocks of desktop publishing using Page Mal	cer and I	Photos	hop			
	~	packages.						
		To understand the layers and tools in photoshop for photo editing						
		To understand the basic features of PageMaker						
		To understand various formatting features of Pagelviaker						
Unit I	Cott	ing Started with Photoshon: Exploring the Toolhoy. The New CS4.	Applicati	one F	or &			
01111 -1	the f	Ontions Bar - Exploring Panels & Menus - Creating & Viewing a N	New – I	Docum	ent -			
	Cust	ustomizing the Interface - Setting Preferences Working with images. Introduction - Making						
	Sele	ections – Resizing & Cronning Images						
.			/01	· •				
Unit-II	Gett	ing Started with Layers: Layers Palette – Working with Layers – Hids	ng/Shov	ving L	ayers			
	- Fla	a Retauching Type: Creating Type Type Tool Maying the Text	Creating	Doro	nop –			
	Tvné	Filters: The Filter Menu – Filter Gallery – Filter Effects – Lighting Eff	fects		graph			
			A 1	4 41	1			
Unit III	Gett	Ing started with Page maker: PageMaker Basics - Starting PageMake	er - Abo	ut the	WORK t and			
	aran	- Using the toolbox - working with pareties - viewing pages - working	with m	ultiple	onen			
	nubl	ications	with int	mpic	open			
Unit IV	Dray	wing tools and text tools: Different drawing tools - Text tools - Cl	naracter	forma	tting.			
	paragraph formatting - Controlling windows and orphans - Controlling page breaks, tabs and							
	hyphenation - Grid manager - Printing a document.							
Unit V	Imn	arting Granhics: Placing granhics - Sizing and granhing granhics - O	[E _ Em	beddi	na an			
Ome v	OLE	object Master Pages: Creating a master nage - Numbering nages - Set	ting un	ruler o	ng an nides			
	- Ap	blying master page design.	ung up	ruler g	ulueb			
Deference en	d To	** Doolse						
Kelerence and								
Adele	Drol Edua	blas Greenberg, Seth Greenberg, 2001 The Complete Reference Photos	hop $6, \mathbb{N}$	AcGra	w-Hill			
	Eauc		*****					
Caroly	yn M	Connally, 2002PageMaker 7 The Complete Reference, Osborne/McGra	aw- Hill.					
David	Xen	akis Benjamin Levisay, 2001 Photoshop 6 in Depth, 1st Edition, Paraglyp	h Press.					
Ramesh Bangia, 2015 <i>Learning Page maker 7</i> . First edition, Khanna Book Publishing Company.								
Satish	Jain	PageMaker 7, Training Guide, BPB Publications						
Outcomes		> To be able to edit and enhance pictures in photoshop for better dis	play and	printi	ng			
		\blacktriangleright To be able to use layers effectively to place multiple content with	transpare	ency				
		\succ To be able to edit and create pages in book chapter or advertiseme	nt using	PageN	1aker			
		To be able to use text and drawing tools on pages						
		\succ To be able to crop and enhance the features of graphics on pages.						

Course code	:	Allied Practical –II A	T/P	C	H/W
22BSOAP3		Electronic Publishing Lab	Р	2	2
Objectives	\checkmark	To learn and use the tools available in Photoshop in enhancing given imag	es		
	\succ	To learn cropping of images using tools in photoshop			
	≻	To learn page design in PageMaker			
	≻	To learn designing a book content and its wrapper			
	≻	To learn designing columns for paper news			
Photoshop					
1. Create	a Po	ostcard in Photoshop			
2. Create	a Pl	hoto Collage in Photoshop			
3. Enhan	ce Ir	nages in Photoshop			
4. Remov	ve th	e background of an image in Photoshop			
5. Design	1 a L	ogo for your institution in Photoshop			
6. Create	a M	lirror Image Effect in Photoshop			
PageMaker					
7. Create	a L	abel using PageMaker			
8. Create	a V	isiting card in PageMaker			
9. Create	a no	otice board in PageMaker			
10. Design	ı a V	Vrapper for a Book in PageMaker			
11. Design	1 an	advertisement for a newspaper in PageMaker			
Reference and	d Te	xtbooks:-(APA Format)			
C.J.Da	ate, 1	990 "An Introduction to Data Base Systems,", Volume L Addison Wesle	y, Rea	ding,	MA
R Elm	asri, 6th E	S B Navathe, 2010 <i>Fundamentals of Database Systems</i> , D V L N Somayaj Edition, Pearson Education. (Chapter I,II,III,IV,VIII,IX,X)	ulu, S	K Gu	pta,
H.F. K	Corth Serie	a, A Silberschatz and S. Sudarasan, 2010 "Database System Concepts", Cors, McGraw-Hill.	ompute	r Scie	ence
Outcomes		 To be able to process given images and enhance their quality To be able to design pages using tools in PageMaker To be able to design logo, visiting card, advertisement etc. To be able to do full fledged desktop publishing To be able to design news paper columns with text and images 			

Course code	:	Allied- II B	T/P	С	H/W
22BSOA4		Web Design using HTML	Т	3	3
Objectives	► T	o learn the history and fundamentals of Hyper Text Markup Language	(HTM	L)	
-	≻ T	o learn the structure of an HTML document and design a web pages wi	th hyp	erlink	s
	≻ T	o learn to create data in tables and format them suitably			
	► T	o learn to design data forms with form elements			
	▶ T	o learn to specify internal and external style sheets to control the appear	rance	of a w	eb page
Unit -I	HTML	-History of HTML- HTML Generation-HTML documents - Ancho	or tag	-Hype	rlinks-
	Sample	e HTML documents.			
Unit-II	Head a	nd body section-Header section-Title-Prologue-Links- Colorful webpa	ige-Co	ommer	nt line-
	Sample	e HTML documents-Lists- Ordered lists-Unordered lists-Nested lists.			
Unit- III	Creatin	ng tables - Aligning Table elements - Working with advanced tables -	Creati	ing Fra	ames –
	Frame	concepts.			
Unit -IV	Creatir	ng Forms - Formatting and Designing forms - Image Mans - Working	with i	mage	
0 mt -1 v	Man re	point types	with 1	mage	
TI 4 N7	т	Desition in a loren Attaching Carinta to Lorenza Nesting Lorenza (74-1-0	11 4 .	
Unit- V	Layers	- Positioning a layer – Attaching Scripts to layers – Nesting Layers – S	Style :	sneets	
Doforonao an	- Expi	hooks: (ADA Format)			
World	U I CAU Wide I	Web design with HTML : C Xavier			
worta	mue	web uesign wun IIImL . C.Maviel			
	L (With	Dynamic HTML) : Vishnu P.Singh			
Outcomes	\triangleright	To be able to design simple web pages			
	\triangleright	To be able to control the design of web pages from different sections of	of the	docum	ent
		To be able to design table of data and formatting with colors and back	groun	ds	
		To be able to create trames to divide the screen into multiple independ	lent se	ctions	•,1
	1	10 be able to specify and use internal and external style sheets and for	mat w	eb pag	ges with
		different styles without rewriting code.			

Course code	:	Allied Practical- II B	T/P	С	H/W
22BSOAP4		Web Design using HTML Lab	Р	2	2
Objectives	► To	learn and use HTML tags and design web pages			
	► To	learn text formatting features			
	► To	learn image formatting features			
	► To	learn Table creation and formatting			
	► To	learn Style sheets and Frames for managing screen space.			
1. Write	a HTMI	L Program to illustrate body and pre tags.			
2. Write	a HTMI	L Program to illustrate Font tag.			
3. Write	a HTMI	L Program to illustrate comment, h1h6, and div tag.			
4. Write	a HTMI	L Program to illustrate text formatting tags.			
5. Write	a HTMI	L Program to illustrate Order List tag.			
6. Write	a HTMI	L Program to illustrate Unordered List tag.			
7. Write	a HTMI	L Program to illustrate Nested and Definition tag.			
8. Write	a HTMI	L Program to illustrate Image tag			
9. Write	a HTMI	L Program to illustrate Hyper Link tag (Anchor tag)			
10. Write	a HTMI	L Program to illustrate Table tag.			
11. Write	a HTMI	L Program to illustrate Frame tag.			
12. Write	a HTMI	L Program to illustrate Form tag.			
13. Write	a HTMI	L Program to illustrate CSS (cascading style sheet).			
14. Write	a HTMI	L Program to illustrate Layer.			
15. Write	a HTMI	L Program to create a Colorful webpage.			
Text and Re	eference	e Books:			
World	d Wide W	Veb design with HTML : C.Xavier			
HTM	L (With I	Dynamic HTML) : Vishnu P.Singh			
Outcomes	> '	To be able to design static content web pages			
\succ		To be able to design a website containing pages that are linked with	other pa	iges an	d with

- other websites
 - To be able to format background with images
 To be able to specify styles for formatting multiple websites with same formatting features
 - > To be able to divide the screen into multiple independent frames and load different contents in each frame.