MANGALORE UNIVERSITY **SECOND SEMESTER B.Com**

Computer Applications (Vocational) Degree Programme

2019-2020 Onwards

GROUP-I	BCMCAC181	48 Hours
COURSE-3		I.A: 20
Credits: 2	Operating System	Exam: 80
Theory/Week:4 Hrs		
	UNIT I	Book & Page No
Introduction:	Operating system, Mainframe systems	(Text book 3)
(Batch systems, Multi	iprogrammed systems, Time sharing systems)	3-11
Operating System St	tructures: System Components, Operating System Services	17-18
Process Managemen	nt: Process concept, Process Scheduling, Operations on	95-103
process, Cooperative	Process	107-108
Threads: Overview, 1	Multithreading Models.	129-132
	UNIT II	
CPU Scheduling: Ba	sic concepts, Scheduling criteria, Scheduling algorithms.	(Text book 3)
		151-169
Process Synchroni	zation: Background, the critical section Problems,	189-192
Synchronization, Semaphore, Classic problems synchronization		201-210
		225-244(Textbook 1)
Deadlocks : System	model, deadlock characterization, Methods for handling	
deadlocks, Deadlock	prevention, Deadlock avoidance, Deadlock detection	283-305(Textbook 1)
	UNIT III	, , , , , , , , , , , , , , , , , , , ,
		(Text book 1)
Memory Managen	nent: Background, Swapping, contiguous Memory	315-345
allocations, Paging, se	egmentation	(8.4.4,8.5 excluded)
		357-365
Virtual Memory:	Background, demand paging, process creation, page	(9.2.2 excluded)
replacement, allocation	on of frames and thrashing.	369-377
	Ç	421-440
File Management:	File concept, Access methods, Directory structure,	(10.3.1 excluded)
Protection.		451-455
	UNIT IV	•
		(Text book 2)
Linux: An introducti	on, reason for its popularity, Linux file system, login and	2-94
logout.		
Linux commands:		
Command format, I		
oriented commands, F	119-128	
Permissions, Proce		
Communication orien		
purpose commands,		
programming, System		
Text Books:		L

- 1. Silberschartz, Galvin and Gagne, Operating Systems Concepts, 8th Edition, John Wiley & Sons, Pvt.
- B Mohamed Ibrahim, Linux: A Practical Approach, Laxmi Publications; First edition, 2016
 Silberschartz, Galvin and Gagne, Operating Systems Concepts, 6th Edition, John Wiley & sons, Pvt. Ltd. 2008

GROUP-I		48 Hours
COURSE-3	BCMCAC182	I.A.: 20
Credits: 2 Theory/Week:4 Hrs	Desktop Publishing	Exam: 80
Theory/week:4 mrs	UNIT I [Text Book-1]	Page No
Introducing InDesig	102-112	
InDesign CS4 worksp		
saving a document, cl	osing the document and quitting the application.	
Working with Documents working with text, we tasks, performing adv	114-132	
. 1	ng tools and objects: Using shape tools, using pencil tool, using	134-150
Publishing the document as saving the document as	154-162	
	UNIT II [Text Book-1]	<u> </u>
Introduction to Con	rel DRAW graphics suit x4: New and enhanced features in	257-272
Coreldraw graphics suit X4. Getting started with Coreldraw X4, Exploring the workspace of Coreldraw X4, drawing basic geometric figures, saving the drawing, opening an existing document, previewing with the drawing, working with page layout, closing the drawing and quitting Coreldraw.		274-282
Working with lines: About lines in Coreldraw: Drawing a curve, drawing calligraphic lines, About outline tool: defining lines and outlines setting, creating a calligraphic outline, adding an arrowhead.		284-293
Working with object objects, rotating objects. S	295-302	
Working with text: Types of text: preparing a layout for using the text, creating artistic text, creating paragraph text, converting text from one type to another, changing the appearances of text, changing a font, changing the font size and color of the text, changing the alignment, applying effects to the text, wrapping paragraph text around objects, fitting text to an object using curve command.		304-326
around objects, many	328-339	
Working with bitma bitmap images, impor- bitmap.	320-337	
_	UNIT III [Text Book-1]	
_	th CS4: Introducing and launching Photoshop CS4, Exploring	166-169
the new interface. Move tool, eyedroppe	169-173	
The layer palette, the palette, clone source p	176-178	
Opening an existing files, reverting files, c	179-183	
Working with images	191-193	
the size of a document Editing images: rotating	194-197	
Working with selection	205-210	
Lasso tools(3 types of	212-213	

Magic wand tool(only meaning exclude different options)	216
Drawing painting and retouching tools: Setting the current foreground and	210
background colors, Exploring color picker dialog box (only meaning exclude different	222 225
components), using eyedropper tool.	223-225
Using retouching tool, healing brush tool, patch tool, clone stamp tool, eraser tool,	
background eraser tool, magic eraser tool.	227-232
Master layers in Photoshop: Working with layers, creating a new layer, hiding and	
showing layers, deleting layers, Applying blend modes.	236-245
UNIT IV [Text Book-2]	Γ _
Getting Started with Flash Professional CS6: Starting Flash Professional CS6,	3-14
Creating new flash File, Exploring the Flash Professional Cs6 workshop (The	
application Bar, Stage, panels, using tool panels, properties inspector).	
	16
Transform Panel, swatches panel, color panel, scene panel.	16
Understanding Timeline and levers Mation Editor Creating or shooting a new	18-23
Understanding Timeline and layers, Motion Editor, Creating or choosing a new	10 20
workspace, Saving Flash Files.	
Working with Cropbing Ditmon and vector quarkies Marga Drawing made	
Working with Graphics: Bitmap and vector graphics, Merge Drawing mode,	24-40
Object drawing mode, Primitive drawing mode, Creating graphics in flash professional	
CS6,Selecting Objects(Using selection tool, Subselection tool, lasso tool, selection	
using lasso tool, Lasso tool with polygon modifier, line tool), Drawing rectangles and	
ovals, Rectangles and shapes, ovals and circles, polygon and stars, pencil tool, pen	42.50
tool.	42-50
Draw straight line with the pen tool, creating a curved path using pen tool, Adding	
anchor points on paths, deleting corner and curve points, painting with the brush tool,	56-64
spray brush tool, Drawing patterns with the deco tool.	69-75
Paint bucket tool, In bottle tool, eyedropper tool, using eraser tool, Transforming	
objects, Distorting objects, rotating and skewing objects.	
Using gradient and bitmap fills(All)	76-88
Working with symbols and instances: Using symbols, creating symbols, duplicate	
symbols, create instances, editing instance properties, break apart a symbol instance,	
editing symbols	105-114
Timeline with timeline: Working with timeline, about layer, create a layer, rename	
layer, outline layer, viewing layer, guide layer.	115-118
Creating animation, types of animation, Classification of animation in the timeline.	
Understanding motion tweens, Easing tween animation, orienting objects to the path,	119-132
swapping targets, motion presets.	
Creating interactive navigation: Creating button symbols, understanding action	163-170
Working with text: Adding simple text, formatting text, paragraph formatting,	
modifying the text box, using lab ruler, flowing text across text multiple containers,	178-195
delete text boxes, finding the next previous link	
detect tell cones, imaing the next provides him	<u> </u>

Text Books:

- 1. Comdex 9-in-1 DTP Course Kit by Vikas Gupta, Dreamtech Press Publications
- 2. Adobe Flash Professional CS6 Training Guide by Prof. Satish Jain, BPB Publications, First Edition

Group I
Practical II
Practical/Week: 3 Hrs
Credit: 1

BCMCAP183 OS and DTP Lab

36 Hrs

IA: 10 Exam: 40

1 Adobe InDesign a) Design College day invitation by using InDesign tools. b) Design a Newspaper cutting. 2 Adobe Coreldraw X4 a) Create any banner in Corel Draw using different tools. b) Create Business card (visiting card) in CorelDraw using different tools. Part - B: Linux 1 Write a shell script to accept 'n' integers and count +ves, -ves and zeros separal Also find the sum of +ves, and -ves.		
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Also find the sum of +ves, and -ves.	ately.	
Write a shell script to accept student name and marks in 3 subjects. Find t	he total	
marks and grade (depending on the total marks).		
Write a shell script program to copy the content of one file1 to file2 and disp	lay the	
content of both the files.		
4 Write a menu driven shell script for the following.		
a) To list files and directories.		
b) Renaming a file (check for the existence of the source file).		
c) To display the current working directory		
d) To list the users logged in		
e) Exit		
5 Write a shell script to accept many filenames through command line.	Do the	
following for each file name: a) If it is an ordinary file display its content.		
b) If it is a directory, display the number of files in it.		
c) If the file/directory does not exist, display a Message.		
Part - C: Adobe Photoshop or Adobe Flash		
Adobe Photoshop		
1 Create image in Photoshop painting tools or use existing images copy the p	ortions	
of one image to another image. Use Toolbox options. Marquee Tool (Rect	angular	
Marquee, elliptical Marquee), Move, Lasso Tool, Magic wand and Crop Too	ls.	
2 Create images of artistic architectures using Photoshop painting tools (brush,	pencil,	
color, paint bucket tools), Drawing tools and retouching tools.		
Create image or use existing images to create a new layer, delete layer, sh	ow and	
hide layers and apply different blend modes.		
Adobe Flash		
4 Create a moving butterfly using simple motion tween animation in Adobe Fl	ash.	
5 Using Adobe Flash, design a building in background using different to	ols and	
simple motion tween animation for moving the bus.		

Scheme of Practical Examination

Sl. No.	Details	Marks
1	Part A (Adobe InDesign or CorelDraw)	8
2	Part B (Linux)	10
3	Part C (Adobe Photoshop or Adobe Flash)	12
4	Class Records	5
5	Viva	5
Total		40