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ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ KARNATAK UNIVERSITY, DHARWAD

NAAC Accredited with 'A' Grade-2014

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ಗೂಕೆಯಂತ್ರ ವಿಜ್ಞಾನ ವಿಭಾಗ Department Of Computer Science zasiki siris, şustand-ave ceç viserbir - szedi Pavate Nagar, Charwad - \$80.003 Karnotak - Jindin

ಉ.ಸಂ./Ref.No:KU/Comp.Sc:

Date: 23/02/2022

Certificate for effecting revision of the Syllabi

This is to certify that curriculum of PGDCA in syllabas was revised during the year 2017-2018 and 78% of content was replaced/added/modified.

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KARNATAK UNIVERSITY, DHARWAD PGDCA

Percentage (78%) of Revision of Syllabus

Course Code and	PGDCA Syllabus 2008-2009	PGDCA Syllabus 2017-2018
Name	1 GD CIT Syllabas 2000 2007	1 GD C11 Syllabas 2017 2010
PGDCA 1.1	Unit-I	UNIT-I
INTRODUCTION	Basics: History and generations of	Introduction to computers: Anatomy
TO OFFICE	Computer, Types of Computer,	of Computer System, Hardware and
AUTOMATION	Organization of Computer System,	Software
TIOTOMITTION	Hardware and Software Components,	Components, Memory unit: Types of
	Memory unit: Types of memory,	memory, ROM, RAM, types of RAM
	ROM, RAM, types of RAM & ROM,	& ROM.
	Introduction to cache and virtual	Introduction to cache add virtual
	memory. 12 hrs	memory.
	Unit-II	[2 Hours]
	Number system: Binary Octal, Hexa-	UNIT-II
	decimal, Number base conversion,	MS-word:Introduction, what is Word-
	Binary addition, Subtraction, One's	Processing, Important Features of MS-
	and Two's compliment, Character	Word, Creating
	codes – ASCII, EBCDIC. 10	and Editing a documents, Entering
	Hrs	Text in the documents, Moving Around
	Unit-III	the documents,
		Formatting A Document: Format and
	Introduction to DOS and WINDOWS	align text, Line and paragraph
	operating system.	spacing, add bulleted
	Software: Types of languages, Types	and numbered lists, add borders and
	of software (System and Application	shading, Changing the Layout of a
	software).	Document.
	10 Hrs	Using Editing and Proofing Tools:
	Unit-IV	Spell and grammar check,
	Network and Internet: History and	ShortcutMenus, Find and
	evolution of Computer Network,	replace text.
	Types of network (LAN, MAN &	Working with Tables: Insert a table,
	WAN), Internet and its applications.	convert a table to text, Navigate and
		select text in a
	Office Automation: Working with	table, resize parts of a table, align text
	MS-Word, MS-Excel and MS-	in a table, format a table, Insert and
	POWER POINT	delete columns and
	18 Hrs	rows, Borders and shading, Merge
		table cells.
		[20 Hours]
		UNIT-III
		MS-Excel: The Basics Creating a New
		Workbook Navigating in Excel
		Moving the Cell
		Pointer Using Excel Menus Using
		Excel Toolbars: Hiding, Displaying,

and Moving Toolbars Entering Values in a Worksheet and Selecting a Cell Range, saving a Workbook & Reopening a saved workbook Formatting a Worksheet: Formatting Fonts & Values Adjusting Row Height and Column Width, Changing Cell Alignment, Adding Borders, Applying Colors and Patterns, Using the Format Painter, Using AutoFormat Merging Cells, Rotating Text and using AutoFit Managing your workbooks: Inserting and Deleting Worksheets Renaming and Moving Worksheets, protecting a Workbook Hiding Columns, Rows and Sheets, **Entering Date** Values and using AutoComplete Formulas: Creating a basic Formula Calculating Value Totals with AutoSum Editing & Copying Formulas Fixing Errors in Your Formulas **Creating & Working with Charts: Creating a Chart Moving and Resizing** a Chart Formatting and Editing Objects in a Chart, working with Pie Charts Adding Titles, Gridlines, and a Data Table Formatting a Data Series and Chart Axis Annotating a Chart Working with 3-D Charts. [20 Hours] UNIT-IV PowerPoint: What's New in PowerPoint, Understanding the PowerPoint Program Screen. **Presentation:** Creating a New Presentation, Inserting and Deleting a Slide and Selecting a Layout Opening a Presentation, Navigating a Presentation Using Undo, Redo and Repeat Saving a Presentation. **Inserting and Editing Text:** Inserting Text Editing Text, Cutting, Copying, and Pasting Text, Moving and Copying Text with the Mouse, Checking Your Spelling, Finding and Replacing Text Inserting Symbols and **Special Characters**

Formatting Text: Changing Font Type, Changing Font Size, Changing Font Color, Changing Font Style, Using the Font Dialog Box, Using the Format Painter Using WordArt. Formatting a Presentation: Using Document Themes, Changing the Background of a Slide Rearranging Slides Adding Headers and Footers Using the Slide Master Working with Bulleted and Numbered Lists Changing Paragraph Alignment and Line Spacing Working with Tabs and Indents. Working with Objects: Inserting Clip **Art Inserting Pictures and Graphics** Files Formatting Pictures and Graphics Inserting Shapes Formatting Shapes Resize, Applying Special Effects to Objects Grouping Objects. Working with Tables: Creating a Table, Adjusting Column Width and Row Height, **Inserting and Deleting Rows and** Columns, Merging and Splitting Cells, Working with Borders and Shading Applying a Table Style. [6 Hours] **PGDCA 1.2: C** UNIT-I Unit-I **Programming Introduction to Programming Introduction to Programming** Paradigms: Structured programming, **Paradigms:** Evolution of Procedural programming, object programming languages, Oriented programming, Functional Structured programming, Procedural programming and Logic programming, object oriented programming, Functional programming. programming and Logic programming, Language translation issues: compilation process, object code, Programming language syntax, stages in translation-analysis of the source source code. program, synthesis of the object executable code, fundamentals of program, BNF grammars – syntax, algorithms, flow charts. parse trees, ambiguity, extension to [10Hours] BNF notation, attribute grammars. **UNIT-II Data types:** Properties of type and Fundamentals: C character set objects, data objects, variables and Identifiers & Keywords, data types, constants, variables and constants, data types, specification and implementations of elementary data arrays, declarations, expressions, types, declaration, type checking and statements, symbolic constants type conversion, assignment and **Data types:** Properties of type and initialization, structured data typesobjects, data objects, variables and vectors and arrays, records, lists, constants, data types, character strings, files and inputspecification and implementations of output. 10 Hrs elementary data types, declaration, type

Unit-II

Subprogram Control: subprogram sequence control, attributes of data control, shared data in subprograms, advances in languages design, comparative study of programming language.

Fundamentals: C character set Identifiers & Keywords, data types, constants, variables and arrays, declarations, expressions, statements, symbolic constants.

Operators and Expressions:

Arithmetic operators, unary operators, relational and logical operators, assignment operators, conditional operators, Library functions.

Control Statements: Branching, Looping, Nested control structures, switch break, continue statements, comma operator, go to statement.

10 Hrs

Unit-III

Functions: Defining a function, accessing a function, function prototypes, passing arguments to a function, recursion.

Program structure: Storage classes, automatic variable, global variables, static variables.

String: String variables, declaring & initializing string variables, reading & writing strings, string functions concatenation, comparison, copy, length implementing the above functions without using built-in string functions, arithmetic operations on characters, programming examples.

12 Hrs

Unit-IV

Pointers: Fundamentals, declaration, passing pointers to functions, pointers and arrays, dynamic memory allocation, operations on pointers, arrays of pointers, passing functions to other functions.

Structures and Unions: Definition a structure, processing a structure, user defined data types (tpyedef), structures and pointers, passing structure to functions, self-referential structure, unions.

checking and

type conversion, assignment and initialization, structured data typesvectors and arrays, records, lists, character strings, files and input-output.

[12 Hours] **UNIT-III**

Operators and Expressions:

Arithmetic operators, unary operators, relational and logical operators, assignment operators, conditional operators, Library functions.

[8 Hours]

UNIT-IV

Control Statements: Branching, Looping, Nested control structures, switch break, continue statements, comma operator, go to statement.

Functions: Defining a function, accessing a function, function prototypes, passing arguments to a function, recursion.

[8 Hours] **UNIT-V**

Arrays: Defining and processing, onedimensional Array, Multidimensional

declaration and their applications. Passing arrays to a function.

String: String variables, declaring & initializing string variables, reading & writing strings, string Functions - concatenation,

comparison, copy, length implementing the above functions without using built-in string functions, arithmetic operations on characters, programming

examples. [10

Hours

	1	
	10 Hrs Unit-V Data Files: Opening and closing a data file, creating a data file, processing a data file, unformatted data file.	
	8 Hrs	
PGDCA 1.3		UNIT-I
WINDOWS		Windows Overview: History,
OPERATING		understanding the OS architecture, Graphics interface, Benefits, Screen attributes: icons and bars, Mouse vs. keyboard input, Features and accessories of the Windows program, Objects and their properties. [8 Hours]
		UNIT-II Installing Windows: Exploring OS Editions, Planning Clean Installs vs. Upgrades, Understanding Installation Types, Using Virtualized Installations Program management: Creating, saving and editing documents,
		Concurrent execution of programs, Sharing data between programs Folder and file management: Working with files, Naming files, Copying and moving files, Deleting files, Managing folders a.
		Creating, Viewing, Expanding and collapsing. [10 Hours] UNIT-III Managing the Desktop: Understanding Desktop Features,
		Working with Gadgets, Changing Display Settings, Creating Shortcuts Control panel: Customizing screens, Screen colors, Pattern, Spacing icons, selecting time/date, Customizing printing,
		changing the print queue, configuring the printer(s), Adding printers. Working with fonts: changing, removing, adding, Customizing mouse and keyboard use, System properties and the device

Io Hours UNIT-IV Management tools: DOS sessions, Explorer, Memory configuration, Safe mode Device Management: Understanding Device Drivers, Exploring Plug-and-Play Operations, Connecting and Managing Devices, Using Disk Defragmenter, Performing a Disk Cleanup, Scheduling Tasks, Managing Applications: Planning for Local and Network Applications, Install and uninstall applications, Configuring and Removing Applications, Using Group Policy for Application Control, Understanding Application Virtualization, The Difference between Services and Standard Applications. Io Hours UNIT-V		
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Protection, Understanding Microsoft Protection Methods Backup and Recovery: Planning for Backups, Testing Recovery Processes, Working with		
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Methods Backup and Recovery: Planning for Backups, Testing Recovery Processes, Working with		
Backup and Recovery: Planning for Backups, Testing Recovery Processes, Working with		Understanding Microsoft Protection
Backups, Testing Recovery Processes, Working with		Methods Methods
Backups, Testing Recovery Processes, Working with		Backup and Recovery: Planning for
Working with		
avsiem resione using recovery Bool		System Restore, Using Recovery Boot
Options.		
Windows Update: Understanding		
Hotfixes and Service Packs, Planning for Windows		
Update and Microsoft Update.		
[10 Hours]	DCDC+ 2 4	<u> </u>
PGDCA 2.1 PAGE MAKER		l control de la control de
PAGE MAKER UNIT I		l l
AND ADOBE Introduction: Introduction to Page		
PHOTOSHOP Maker Page Maker Icon and help, Tool	PHOTOSHOP	Maker Page Maker Icon and help, Tool
Box, Styles,		Box, Styles,
Menus etc., Different screen Views,		Menus etc., Different screen Views,
Importing text/Pictures, Auto Flow,		
Columns, formatting		
text.		
		l
Hours]		• • • • • • • • • • • • • • • • • • •
UNIT-II		
Master Pages & customization:		
Master Pages and Stories, Story Editor,		
Menu Commands	1	Menu Commands

	and short-cut commands, Spell check,
	Find & Replace, Import Export etc.,
	Fonts, Points
	Sizes, Spacing etc., Installing Printers,
	Scaling (Percentages), Printer setup
	Use of D.T.P. in
	Advertisements, Books & Magazines,
	News Paper, Table Editor.
	[10 Hours]
	ADOBE PHOTOSHOP
	UNIT-III
	Introduction: Introduction to Adobe
	Photoshop & Documents, Various
	Graphic Files and
	Extensions, Vector Image and Raster
	Images, Various Colour Modes and
	Models. [10
	Hours]
	UNIT-IV
	Layers & Filters: Introduction to
	Screen and Work Area, Photoshop
	Tools & Palettes,
	Layers Palette, Working with Layers,
	New Layer via Cut, New Layer via
	Copy ,Working
	with Images, The Filter Menu, Filter
	Gallery, Extract Filter, Noise Filters,
	Sketch Filters.
	[10 Hours]
	UNIT -V
	Printing and Customization: Import,
	Export, Automate, Printing, Customize
	Workspace,
	Creating an Action.
	[8 Hours]
PGDCA 2.2	UNIT-I
Corel DRAW	Introduction to CorelDRAW: Use
	and importance in Designing, Various
	Graphic Files and
	File Extensions, Vector Image and
	Raster Images, Introduction to Screen
	and Work Area.
	[10
	Hours]
	UNIT-II
	Introduction to Tools of
	CorelDRAW: Managing Palettes
	Working with Images, Patterns
	and Textures, Working with Shapes,
	Colours and Fills ,Image Rasterisation
	and Editing,
	Transformation Menu. [10]
	Hours Hours
	UNIT-III
	CorelDRAW Files: Coreldraw Files
	LOPELLIKA W PHES: COREITAW PHES

	and supporting documents, Import and
	Export of Files
	and File formats Page Setup and
	Designing, Using Styles and
	Templates, Working with Text,
	Formatting Text, Text Attributes. [10]
	Hours]
	UNIT-IV
	Page Layout and Layers: Designing
	Different Page Layouts, Column
	Layout, Special
	Effect to Objects and Texts, Contour
	Tool ,Layout for News Paper and
	Magazines, Working
	with Layers Hiding/Showing Layers -
	Deleting Layers, Masking Layers.
	[10 Hours]
	UNIT-V
	Printing and Customization:
	Preparation of Visiting Cards &
	Invitation Cards, Shaping
	Dockers & Logo Design Introduction
	Brochure & Books, Introduction to
	Magazine
	Designing, Web Photo Gallery
	Printing.
7.77.51.22	[8 Hours]
PGDCA 2.3	TALLY
TALLY AND	Unit-I
SPSS	Manual Accounting: Accounting,
	Need for accounting, Types of
	accounts, Rules of debit &
	credit, Accounting principles or
	standards, Accounting concepts,
	Accounting conventions,
	Accounting system, Recording
	transactions in journal, Ledger
	(Classifying), Trial balance,
	Final Accounts, Trading & P/L
	statement, Balance sheet, Adjustment
	Entries, Summary.
	<mark>[8 Hours]</mark> UNIT-II
	Computerized Accounting: Installing
	Tally – Requirements &procedure for installing tally,
	Education mode, Changing default
	settings through tally. Opening screen
	of tally, Creating
	Company, shutting a company, Altering/Modifying existing Company,
	Buttons on the button
	Long!
	Panel Accounting Information, Many
	Accounting Information: Menu related to accounts, Groups, Managing

Groups, Creating new group & sub group, Displaying, altering & deleting a group, Creating, Displaying & altering multiple groups. Ledgers: Displaying, altering & deleting single and Multiple Ledgers. **Hours**l UNIT-III Cost categories & Cost centers: Creating, Displaying, Altering & Deleting a cost category and cost centers, Vouchers in Tally, Inventory information, stock categories, stock item, Multiple Stocks, Multiple Godowns, reports and internet capabilities. [8 Hours] **SPSS** UNIT-IV **Introduction to PASW:** Menus, Tool Bar, Dialogue Box, Designate Window, Basic steps for performing any Statistical **Procedure** Data Management: Creating a Data File, Defining Variables, Entering & Saving Data, Opening an existing Data File, Inserting Variables, Inserting Cases, Identifying Duplicate Cases, Identifying Unusual Cases, Sorting Cases, Merging a File: Add Cases, For Adding Variables, Data Aggregation, Splitting File, Selecting Cases, Listing Cases. [8 Hours] UNIT-V Data Transformation: Computing a New Variable, Recoding Variables, Types of measurement Scales, Descriptive Statistics, Crosstabs. **Describing Data Graphically:** Line Chart, Pie Chart, Bar Chart, Histogram and the Standard Normal Curve, Box Plot, Scatter Diagram, P-P Plot, Q-Q Plot, Chart Builder, Formatting Charts. [8 Hours] **UNIT-VI** One Sample t-Test: Hypothesis testing, Independent Sample t-Test, Sample t-Test, Procedure for

Testing for Differences in Means between Groups, Interpretation of Null
Results.
Nonparametric statistics: Runs Test,
Chi-Square Test, Mann-Whitney U
Test, Wilcoxon Signed Rank
Test, Kruskal-wallis Test.