	· Code: CCCS101	Total Credit : 4
Title	of Paper: Introduction to Computer Science and Programming	Total Marks: 70 Time: 3 Hrs
		Time . 3 IIIs
Unit	Description	Weighting
I	Introduction: Core Elements of a IDLE, types of objects, operators, overloading, commands, variable, assignment, input, straight line and branching programs, looping constructs, Turing completeness, conditionals, nesting.	20%
II	Problem Solving: Termination, decrementing functions, exhaustive enumeration, brute force, while loop, for loop, approximation, specifications, bisection search.	20%
III	Machine Interpretation of a Decomposition, module, function, abstraction, formal parameter, actual parameter, argument, assert, scope, mapping, stack, last in first out, string, slicing.	20%
IV	Object in Python: Tuples, lists, dictionaries, methods, identifiers, modifying objects, aliasing, mutability Recursion: Dictionaries, modular abstraction, divide and conquer, recursion, tower of Hanoi, base case, Fibonacci Sequence.	20%
V	Efficiency and Order of Growth: Efficiency, problem reduction, RAM, best case, worst case, expected case, growth, exponential growth, polynomial growth, logarithmic growth, global variable. Memory and Search Methods: Memory, storage, indirection, sorting	20%
Basic	Text & Reference Books :-	
1.	Guttag, John. Introduction to Computation and Programming Using P	Python, MIT Press,
	2013. ISBN: 9780262519632	
2.	Downey, Allen B. Think Python, Shroff, ISBN:9350238632	

Paper Code: CCCS101	Total Credit: 4
	Total Marks: 70
Title of Paper: Introduction to Computer Science and Programming	Time: 3 Hrs

Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	04	
•	Q.1 (B) Medium / Long Questions. (With Internal Option)	06	14
•	Q.1 (C) Algorithm/ Pseudo Code/Program in Python. (With Internal Option)	04	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	04	
	Q.2 (B) Medium / Long Questions. (With Internal Option)	06	
	Q.2 (C) Algorithm/ Pseudo Code/Program in Python. (With Internal Option)	04	14
	Q.3 (A) Short / Medium Questions (With Internal Option)	04	
III	Q.3 (B) Medium / Long Questions. (With Internal Option)	06	14
	Q.3 (C) Algorithm/ Pseudo Code/Program in Python. (With Internal Option)	04	
	Q.4 (A) Short / Medium Questions (With Internal Option)	04	
IV	Q.4 (B) Medium / Long Questions. (With Internal Option)	06	14
- 1	Q.4 (C) Algorithm/ Pseudo Code/Program in Python. (With Internal Option)	04	
v	Q.5 (A) Short / Medium Questions (With Internal Option)	04	
-	Q.5 (B) Medium / Long Questions. (With Internal Option)	06	14
-	Q.5 (C) Algorithm/ Pseudo Code/Program in Python. (With Internal Option)	04	

Paper	Code: CCCS102	Total Credit: 4 Total Marks: 70
Title o	Title of Paper: Fundamental of Computers and Data Processing	
		Time: 3 Hrs
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Unit	Description Description	Weighting
I	Information concept and processing: Introduction, Data and Information, Features of Information,	20%
	Categories of Information, Levels of Information.	
	Concepts of Data:	
	Organization of Data as a file, Types of File, Classification of data	
	files by functions, File Organization.	
II	Elements of Electronic Data Processing (EDP):	20%
11	Introduction to computerized business data processing, Benefits of	20 / 0
	EDP, Overview of Commercial Application.	
	Number systems:	
	Binary, Octal, Decimal, Hexadecimal, Conversion of Number System	
	ASCII, BCD	
III	Elements of Computer Systems:	20%
	Introduction, Computer Classification, Capabilities and Limitations,	
	Computer Generation	
	Input Units:	
	Functions of Input Units, Types of Input Devices.	
IV	Output Units:	20%
	Types of Output Devices, Types of Printer, Types of VDU, Types of	
	Plotters.	
	Memory:	
	Introduction, Classification of Memory, Primary Memory, Types of	
	RAM and ROM, Characteristics of Memory.	
V	Data Storage Devices:	20%
	Secondary storage devices, magnetic media, types of disks, storage	
	principles, magnetic tape, hard disk and floppy disk, optical media,	
	CD-ROM, CD, DVD.	
Rosic '	Merits, demerits and application of storage devices. Fext & Reference Books:-	
1.	Computer Fundamentals 4/e, Pradeep Sinha, BPB Publications	
1.	Computer 1 undamentals 4/c, 1 facecp simila, Di D i utilications	

Paper Code: CCCS102 Title of Paper: Fundamental of Computers and Data Processing			Total Credit: 4 Total Marks: 70 Time: 3 Hrs
Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	

Paper Code: CCCS103	Total Credit : 4			
Title of Paper: Practical Based on CCCS101	Total Marks: 70			
-	Time: 3 Hrs			
Description				
1. Understanding IDLE: Installing, Running Programs, Saving and Load	1. Understanding IDLE: Installing, Running Programs, Saving and Loading Files			
2. Understanding Python Operators.				
3. Understanding Branching.				
4. Understanding Looping.				
5. Understanding Functions and Parameters.				
6. Understanding Tuples, Lists, Dictionaries.				
7. Understanding Mutability of various objects.				
8. Understanding Recursion.				

Paper Code: CCCS103 Title of Paper: Practical Based on CCCS101			Total Credit: 4 Total Marks: 70 Time: 3 Hrs
Unit	Description		Total Marks
I	Q.1 (A) Viva – Voce	20	70
	Q.1 (B) Practical	50	

Paper Code: CCCS104	Total Credit : 4			
Title of Paper: Practical Based on CCCS102 and Elective Courses	Total Marks: 70			
	Time: 3 Hrs			
Description				
 To understand and implement concept of desktop publishing software To understand and implement the basic concept of Word Processing Software To understand and implement the concept of Presentation Packages To understand and implement the concept of Spreadsheet Packages 				

Paper Code :	Total Credit: 4 Total Marks: 70					
Title of Paper	Time: 3 Hrs					
Unit Description		Total Marks				
I	Q.1 (A) Viva – Voce	20	70			
	Q.1 (B) Practical	50				

	Code: FCCS101	Total Credit : 4
Title	of Paper: Communication Skills in English	Total Marks: 70
		Time: 3 Hrs
Unit	Description	Weighting
	ORAL COMMUNICATION:	····
	- Meaning, nature and scope	
	- Principles of effective oral communication	
I	- Techniques of effective speech	20%
	- Meaning and Definition	
	- Process – Functions – Objectives	
	- Importance – Essentials of good communication	
	- Communication barriers	
	- Overcoming communication barriers	
	- Communication: At the college, On the campus, Outside the	
	campus, At the post office, For Business and pleasure, Review.	
	GRAMMER AND USAGE:	
II	- The Articles	
	- Nouns & Pronouns	
	- Tenses	20%
	- Auxiliary verbs (Model auxiliaries)	
	- Questions and negatives	
	- Prepositions attached to verbs	
	GRAMMER AND USAGE :	
III	- Vocabulary words often confused, Abbreviations and Numerals	
	- Active-Passive	20%
	- Conjunctions	
	- Reported speech	
	- Translation	
	BUSINESS COMMUNICATION	
	- Enquiries and Replies	
IV	- Quotations	
	- Voluntary offers	20%
	- Placing of orders	
	- Cancellations of orders	
	- Complaints and Adjustments	
	INFORMATIONTECHNOLOGYFOR COMMUNICATION	
	- Word Processor-Telex-Facsimile(Fax)	
	- E-mail-Voicemail-Internet –Multimedia-Teleconferencing	
V	- Mobile Phone Conversation	20%
	- Video Conferencing	
	- SMS	
	- Telephone Answering Machine	
	- Advantages and limitations of these types.	
	Text & Reference Books :-	
1.	Creative English Communication By N.Krishnaswami and T.Sriraman.	
2.	Contemporary English Grammar, Structure and Composit	ion By David
	Green.(MacMillan)	
3.	Essential of Business Communication By Rajendra Pal and J.S.Kor	lahalli(S.Chand &
	Sons)	
4.	Business correspondence & Report By R.C.Sharma & Krishna Mohan.	
5.	Business Communication Dr. S.V. Kadvekar, Prin. Dr. C.N. Rawal	and Prof.Ravindra
	Kothavade – Diamond Publications, Pune.	

Paper Code: FCCS101			Total Credit: 4 Total Marks: 70	
Title (of Paper: Communication Skills in English	Time: 3 Hrs		
		· ·		
Unit	Description		Total Marks	
	Q.1 (A) Short /Medium Questions. (With Internal Option)	06		
Ι	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	14	
II	Q.2 (A) Short /Medium Questions. (With Internal Option)	06	14	
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08		
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06		
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	14	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06		
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	14	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14	

08

Q.5 (B) Medium / Long Questions. (With Internal Option)

Paper Code: CECS101	Total Credit: 4
Title of Paper: PC Software and Applications	Total Marks: 70
11	Time: 3 Hrs

		11me: 3 Hrs
Unit	Description	Weighting
	Operating System :	
	Introduction, Types of Operating System	
	DOS: Internal & External commands, file name, wildcard character,	
I	autoexec.bat & config.sys, hidden system files. Commands like DIR,	20%
	MKDIR, CHDIR, COPY, TYPE, DELETE, RENAME, PRINT,	
	FORMAT, SYS, LABEL, CHKDSK, SCANDISK, ATTRIB, PATH,	
	PROMPT, DATE, TIME, BACKUP,	
	RESTORE etc.	
	WINDOWS: Concept of Window, icon, menu, picture Control Panel	
	etc. Desktop: my computer, network neighbourhood, recycle bin	
	etc., start menu, windows explorer, long & short file names, creating	
	folder, copying & moving files, deleting files, creating shortcuts,	
	adding & deleting from start menu, adding & removing hardware,	
	scanning disk, defragmentation, security features, installing other	
	software etc.	
11	Introduction to personal computers	
II	Significance and use of a typical PC Operating System Introduction to Editors	
	Classification of PC Software	20%
	Introduction to word processing	2070
	Examples of some popular word processing packages	
	Uses of word processors	
	Creation, editing, and formatting of documents	
	Mail merge facility in word processors	
III	Global search & replacement of text	
	Page layout and printing of a document	20%
	Spelling checker, Tables, Templates, Advanced features	
	Introduction to spreadsheets	
	Examples of some popular spreadsheet packages	
	Uses of spreadsheet packages	
	Addressing cells in a spreadsheet	
***	Building Spreadsheets using formulas, conditional calculations, built-	
IV	in Constitute	200/
	functions Croph plotting facilities	20%
	Graph-plotting facilities Sorting and filtering data	
	Using externally created data files in a spreadsheet package	
	What-if analysis and protection facility in spreadsheets	
	Using pivot tables	
	Applications of spreadsheets	
V	Introduction to presentation tools	20%
	Creating a presentation	
	Formatting slides	
	Slide transition and adding special effects	
	Inserting pictures, sound, charts	
Basic	Text & Reference Books :-	
1.	Taxali R.K: PC Software for windows made simple, Tata McGraw-F	Hill Publishing Co.
	Ltd.	
2.	Manuals of PC Software	

	Code: CECS101		Total Credit: 4 Total Marks: 70
Title (Title of Paper: PC Software and Applications		
Unit	Description		Total Marks
	Q.1 (A) Short /Medium Questions. (With Internal Option)	06	
I	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	14
II	Q.2 (A) Short /Medium Questions. (With Internal Option)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	14
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	14
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	

Paper Code: CECS102		Total Credit : 4
Title of Paper: Desktop Publishing		Total Marks: 70 Time: 3 Hrs
		Time: 5 Hrs
Unit	Description	Weighting
	Introduction	
	Publishing – meaning and planning	
	Graphics and desktop publishing, Publication purpose and	
I	effectiveness, Introduction to a popular desktop publishing software	20%
	and key features	
***	Using DTP Software-I (Page Maker)	
II	Working with document - creating, saving, printing, etc.	
	Working with tools and pallets, navigation	200/
	Working with margins, indents, tabs and ruler	20%
	Working with text , paragraph and graphics Using DTP Software-II (Page Maker)	
III	Working with multipage documents	
111	Working with master pages, hyperlinks	20%
	Working with frames, text frames, Using tables	2070
	Using styles and story board, Working with objects, forms	
	Working with templates, Importing and exporting	
	Corel Draw	
	Introduction, Surfing the Interface, Getting to know the status bar.	
IV	Getting to scrollbar and color palette.	
	Understanding Dialog box, Exploring the standard toolbar, Toolbox.	
	Browsing the Menus, File, Edit, View, Layout, Arrange, Effect,	20%
	Bitmaps, Text, Tools, Drawing and working with Lines and Curves.	
	Drawing and working with Rectangles, Ellipse and Polygons, Adding	
	Text and Formatting Text, Working with Objects, Defining Outline	
	and Fill Color, Working with outlines, The outline pen dialog, The	
	outline color dialog, Understanding fills, Fountain fills, Pattern fills,	
	Creating Special Effects, Using an envelope, Creating perspective	
	effects, Blending objects Photo Shop	
	Photoshop's Environment Graphics and Environment Elements	
	Navigating in Photoshop. Sizing Images, Image Size and Resolution	
V	Cropping. Selecting Image Areas. The Rectangular and Elliptical	20%
•	Marquee Tools. The Lasso Tools and Saving Selections. The Magic	2070
	Wand Tool. The Magnetic Lasso Tool and Modifying Selections	
	Layers, Feathering Edges: Image Modes, Color and Painting,	
	Selecting Colors, Painting Tools and the Clone Stamp Tool. Text,	
	Layer Effects, and Filters, Filters, Merging, and Flattening. Adjusting	
	Images, Brightness/Contrast and Levels Adjustment Layers, Toning	
	Tools and Hue/Saturation	
Basic	Text & Reference Books :-	
1.	Jain S.: PageMaker 7 Training Guide, BPB, 2008	
2.	Manuals of Photoshop	
3.	Connally C.: PageMaker (R) 7 – The Complete Reference, McC	3raw-Hill/Osborne
4	Media, 2002	
4.	Mastering Corel Draw by Rick Altman, BPB 4th Edition	

	Code: CECS102		Total Credit: 4 Total Marks: 70 Time: 3 Hrs
Title (Title of Paper: Desktop Publishing		
Unit	Description		Total Marks
	Q.1 (A) Short /Medium Questions. (With Internal Option)	06	
I	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	14
II	Q.2 (A) Short /Medium Questions. (With Internal Option)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	14
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	14
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	

Paper Code: CECS103		Total Credit: 4
Title of Paper: Financial Management and Accounting		Total Marks: 70
		Time: 3 Hrs
Unit	Description	Weighting
	Accounting principles, concepts and conventions, double entry	
	system of accounting, types of accounts journalizing, introduction of	
	basic books of accounts of sole proprietary concern, control accounts	
I	for debtors and creditors, closing of books of accounts and	20%
	preparation of trial balance.	
	Trading and profit and loss account and balance sheet of sole	
	proprietary concern with normal closing entries. Final accounts of	
	partnership firms and limited company.	
	Financial Management:	
II	Meaning, role and importance of financial management.	
	Ratio analysis:	
	Meaning, advantages, limitations, types of ratios and their usefulness.	20%
	Costing:	
	Nature, importance and basic principles, methods, elements of cost,	
	cost sheet, pro-forma of cost-sheet, tender price.	
***	Budget and Budgetary Control:	
III	Nature and scope, importance methods of finalization of master	200/
	budget and functional budgets.	20%
	Standard Costing:	
	Nature and scope, computation and analysis of variances with reference to material cost, labor cost, interpretation of the variances.	
	Marginal Costing:	
	Meaning and scope of marginal costing, uses and limitations of	
IV	marginal costing, breakeven point, simple example on decision	
1 '	making.	
	g.	20%
	Accounting Software	
	Role of computers in commerce, Introduction to Accounting	
	Packages, Hardware and software requirement for tally, Features of	
V	tally, Flow of Accounting package tally through examples, Various	20%
	Phases of Accounting Cycle in Tally, Tax calculation & tally	
Basic	Text & Reference Books :-	
1.	Accounting & Financial Management by D.R.Patel, Atul Prakashan	
2.	Manuals of Tally	

Paper Code: CECS103		Total Credit: 4 Total Marks: 70	
Title of	Title of Paper: Financial Management and Accounting		
Unit	Description		Total Marks
All	Q.1 MCQ	14	14
I, II	Q.2 (A) Short /Medium Questions. (With Internal Option)	06	
ŕ	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	14
	OR Q.2 Long Question	14	
II,III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	14
	OR Q.3 Long Question	14	
III,IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	14
	OR Q.4 Long Question	14	
IV, V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	14
	OR Q.5 Long Question	14	