

**I B.Sc. – Computer Science / Semester- I (W.E.F. 2017-2018)**  
**Course: COMPUTER FUNDAMENTALS AND PHOTOSHOP**  
**COURSE CODE: CP1204**

**Total Hrs. of Teaching-Learning: 52 @ 4 h / Week      Total Credits: 03**

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**Objective:** This course is designed to basic computer knowledge with PHOTOSHOP package. In this course Create compositions with different placements, styles, and visibility Learn to select parts of images for a composition Learn to use layer blending modes and layer effects Learn to create different arrangements

**Outcome:** After the successful completion of course the student should have thorough knowledge about concept and principles of computer fundamentals and Photoshop

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**MODULE--I:**

**12hr**

- a) **Introduction to computers:** Characteristics and limitations of computer, Block diagram of computer, types of computers, uses of computers, computer generations.
- b) **Number systems:** working with binary, octal, decimal and Hexa decimal numbering system.
- c) **Input and Output devices:** Keyboard and mouse, inputting data in other ways, Pointing Devices, Handheld Devices, Optical Devices, Audio-Visual Input Devices. Output Devices: Monitors, Projectors, Speakers, Printers, Plotters.

**MODULE--II:**

**10hr**

- a) **Types of Software:** system software, Application software, commercial, open source, domain and free ware software.
- b) **Memories:** Primary, Secondary and cache memory. Secondary Storage Devices: Magnetic Tapes, Floppy Disks, Hard Disks.
- c) **Windows basics:** Start menu, icons, MSWindows-Desktop, My Computer, My Documents, Pictures, Music, Videos, Recycle Bin, and Task Bar - Control Panel.

**MODULE- -III**

**12hr**

- a) **Introduction to Adobe photoshop:** Getting started with photoshop, creating and saving a document in photoshop, page layout and back ground, photoshop program window-title bar, menu bar, option bar, image window, image title bar, status bar, ruler, paletts, tool box,screen modes, saving files, reverting files, closing files.
- b) **Images:** working with images, image size and resolution, image editing, colour modes and adjustments, Zooming & Panning an Image, Rulers, Guides & Grids- Cropping & Straightening an Image, image backgrounds, making selections.
- c) **Working with tool box:** working with pen tool, save and load selection-working with erasers-working with text and brushes-

**MODULE—IV**

**18hr**

- a) **Colour manipulations:** colour modes- Levels – Curves - Seeing Colour accurately **Patch tool** – Cropping-Reading your palettes - Dust and scratches- Advanced Retouching- smoothing skin. **Layers:** Working with layers- layer styles- opacity- adjustment layers
- b) **Filters:** The filter menu, Working with filters- Editing your photo shoot, presentation – how to create adds, artstic filter, blur filter, brush store filter, distort filters, noice filters, pixelate filters, light effects, difference clouds, sharpen filters, printing.  
**Menus:** purpose of menus – new file- open file- print file – copying data – cut data- paste data- saving custom shape- working with modes- define brushes.

**Reference Books:**

1. Fundamentals of Computers by Reema Thareja from Oxford University Press
2. Adobe Photoshop Class Room in a Book by Adobe Creative Team.
3. Photoshop: Beginner's Guide for Photoshop - Digital Photography, Photo Editing, Color Grading & Graphic...19 February 2016 by David Maxwell.

**P. R.GOVT. COLLEGE (AUTONOMOUS), KAKINADA**  
**MODEL BLUE PRINT FOR THE YEAR 2017-2018**  
**I B.SC (CS) 2017-2020 BATCH**

**Computer Science Course: COMPUTER FUNDAMENTALS AND PHOTOSHOP**  
**COURSE CODE:CP1204**

**Time : 2.30 Hrs.**

**SEMESTER-I**

**Max. Marks: 60**

**Model blue print for the model paper and choice**

S.NO	Type of Question	To be given in the Question Paper			To be answered		
		No. of Questions	Marks allotted to each question	Total Marks	No. of Questions	Marks allotted to each question	Total Marks
F1	Section-A Very Short Questions	5	1	5	5	1	5
2	Section-B Short Questions	6	5	30	3	5	15
3	Section-C Essay Questions	8	10	80	4	10	40
<b>TOTAL</b>		<b>19</b>		<b>115</b>	<b>TOTAL MARKS</b>		<b>60</b>

$$\text{Percentage of choice given} = \frac{115 - 60}{115} \times 100 = \frac{55}{115} \times 100 = 47.82\%$$

**P.R.GOV.T.COLLEGE (AUTONOMOUS), KAKINADA**  
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**Section-I**

**Answer ALL Questions (Very Short answer questions) (5x1=5M)**

1. Write about system softwares?
2. Write any four I/O devices.
3. Define File and Folder.
4. How do you crop an image?
5. What is Drawing Palette?

**SECTION-II**

**Answer any 3 Questions (Short answer questions) (3x5=15M)**

6. Differentiate between primary memory and secondary memory.
7. Explain the generations of computers.
8. Explain the various types of number system.
9. How to manage software?
10. Explain briefly about patch tool in photoshop.
11. Explain briefly about rulers in photoshop.

**SECTION-III**

**Answer all Questions (4x10=40)M**

12. Explain the Logical Organization of a Digital Computer with the help of Block Diagram.

(or)

Write about the classification of computer in detail.

13. What is an octal number system? Explain the procedure to convert an octal number into its binary

(or)

Explain various options in Start menu

14. Explain how to change the image size and resolution in Photoshop

(or)

Explain how to create, hide and delete layers in Photoshop

15. Explain how to create ads in Photoshop.

(or)

Explain the working procedure of the tools

- a. Brushes.
- b. Pencil and Erasers.
- c. Painting with selections

# I B.Sc. – Computer Science / Semester- II (W.E.F. 2017-2018)

## Course: Programming in C

Course Code:CP2204

**Total Hrs. of Teaching-Learning: 52 @ 4 h / Week**      **Total Credits: 03**

**Objectives** – This course is designed to understand C programming language. To gain knowledge on using programming structure and its elements.

**Outcomes:** After this course student will able to

- 1) Know how to implement Logics in C program
- 2) using if-else construct, Loops and Data Structures
- 3) Functions in C, Recursion, Arrays,
- 4) Strings in C.

### MODULE I:

12Hrs

- a) **Introduction to Algorithms and Programming Languages:** Algorithm – Key features of Algorithms – Some more Algorithms – Flow Charts – Pseudo code – Programming Languages – Generation of Programming Languages – Structured Programming Language Design and Implementation of Correct, Efficient and Maintainable Programs
- b) **Introduction to C-**Introduction, historical development of C, sample C program, Constants, variables and data types.
- c) **Operators and expressions-**arithmetic, unary, relational, logical, assignment, the conditional operator etc., Arithmetic expressions. Managing input and output operations: Reading, writing, formatted
- d) **I/O. Decision making and branching:** Introduction, if, if-else, nested-if, switch statement.

### MODULE II:

12Hrs

- a) **Decision making and looping arrays:** While, Do-while, for statements.
- b) **Arrays:** Introduction, One-dimensional arrays, two-dimensional array, Multi dimensional arrays.
- c) **Functions:** definition, form of C functions, function declaration, accessing a function, categories of functions, passing arguments to a function, call by value, call by reference. Recursion, function with arrays. Strings: String handling functions.

### MODULE -III:

HRS: 10

- a) **Storage Classes:** Auto, register, static, extern.
- b) **Structures and unions:** structure definition, initialization, arrays of structures within structures, structures and functions, unions.

### MODULE -IV:

HRS: 12

- a) **Pointers, File Management in C:** Introduction to pointer, pointer declarations, pointer and arrays, passing pointers to functions, pointer and structures, pointers to pointers.
- b) **File Management in C:** Introduction, defining and opening of a file, closing a file. Input/output Operations on files.

### Prescribed Books:

1. Programming with C by Byron S. Gottfried, Schaum's out line series.
2. Programming in ANSCI C by E. Balaguruswamy (2<sup>nd</sup> edition)

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**Course: Programming in C**  
**Course Code:CP2204**

**Time : 2.30 Hrs.**

**SEMESTER-II**

**Max. Marks:60**

**Model blue print for the model paper and choice**

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**SEMESTER-II**

**Max. Marks: 60**

**(Model Question Paper)**

**Section-I**

**Answer ALL Questions**

**(Very Short answer questions)**

**(5x1=5)M**

1. Write the syntax and flow chart of if-else statement.
2. Write any two features of C language.
3. Define function.
4. What is pointer?
5. Define array.

**Section-II**

**Answer any 5 Questions**

**(3x5=15)M**

1. List out various operators in C.
2. Distinguish between Structures and Unions.
3. Explain call by reference with an example.
4. Explain about recursion with example.
5. Write about storage classes in C.
6. Explain various data types in C.

**Section-III**

**Answer all Questions**

**(4x10=40)M**

1. Explain various conditional control statements in 'C' with examples.  
(or)  
Explain different input and output statements in 'C' with examples
2. Explain different categories of functions with examples.  
(or)  
Explain the difference between arrays and pointers in C.
3. Explain different input/output functions in file handling.  
(or)  
Explain various string handling Functions in C.
4. Write a C program to find multiplication of two matrices.  
(or)  
Explain about basic file operation in C.