

## **Program Outcomes (POs)**

Name of Program: **P.G.D.C.A.**

***After completing Post graduate diploma in computer application, a student will be able to develop:***

1. Students are able to use their knowledge to develop different web and windows based applications.
2. They can start their own business in web development and software development.
3. Students can create database, websites and applications for their clients.
4. Students can also pursue the career of computer operators.
5. Students will able to learn the latest trends in various subjects of computers & information technology.
6. Design and develop applications to analyze and solve all computer science related problems.
7. Understanding application of Different software needed for rural areas development.
8. Effective Computer Skills and development personality.
9. An ability to analyze the local and global impact of business solutions on individuals, organizations, and society.

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## **Program Specific Outcomes(PSOs)**

Name of Program: **P.G.D.C.A.**

1. Understand Basic concept, and Programming language like procedure oriented language, Object oriented programming, event driven programming.
2. Design applications for any desired needs with appropriate considerations for any specific need on societal and industrial aspects.
3. Different Hardware and software specification.
4. Understanding application of different software. Needed for area development like Govt. sector, online trading, and institute.
5. It will equip the students with skills required for designing, developing applications in Information Technology.

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## **Course Outcomes (COs)**

Name of Program: **PGDCA -I Semester**

Name of Subject: **Paper-I Fundamentals of computers**

*After studying this paper, students should be able to:*

1. Understand the basic terminology of computers and definition of computer system.
2. Making the students understand and learn the basics of computer how to operate it.
3. Learn about working of various input and output devices.
4. To introduce students with basic concepts of Operating System, its functions and services.
5. Understand various features and application of windows operating system.
6. Acquire knowledge about various Linux commands.

Name of Subject: **Paper-II Office Automation and Tally**

*After studying this paper, students should be able to:*

1. Understand the practical concepts of MS Word, MS Excel, MS PowerPoint, and MS Access.
2. Use systems development, word-processing, spreadsheet, and presentation software to solve basic information systems problems.
3. Knowledge & Understanding about Databases and their design & development
4. Acquire knowledge about formatting documents and arranging documents.
5. Learn about charts, excel formulas, tables as well as use of it.
6. Prepare presentation and perform computation on excel sheet.
7. Learning Tally help you maintain inventory online. This also helps to bring down loss and wastage and also helps in maintaining accounts and inventory.

Name of Subject: **Paper-III Programming in C**

*After studying this paper, students should be able to:*

1. Learn how to practically design programs.
2. Understand the fundamentals of C programming.
3. Acquire knowledge and skills of programming.
4. Able to develop logics which will help them to create programs, applications in C.
5. Also by learning the basic programming constructs they can easily switch over to any other language in future.
6. Understand the concept of control structure and loops.
7. Also understand the concept of array, structure, pointer and file handling.

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Name of Subject: **Paper-IV Practical based on PGDCA-102**

*After studying this paper, students should be able to:*

1. Create “Table of content” in the top of document with page numbering in roman in footer.
2. Paragraph with Normal styles having “Arial Font”, 11 size and 1.15 line spacing with 0.6cm left indent.
3. Create Business Cards using Shapes, text, and colors.
4. Use smart art and create organization charts.
5. Enter the formula to find TOTAL SALARY for the first employee where:  $TOTAL\ SALARY = SALARY + COMMISSION$  Copy the formula to the remaining employees.
6. Working with Sum IF and Count IF statements.
7. Change the layout of the third slide, the slide that does not have the SmartArt, to Comparison.
8. In Tally you can activate / deactivate voucher types as per your business need from voucher type creation / alteration screen.

Name of Subject: **Paper-V Practical based on PGDCA-103**

*After studying this paper, students should be able to:*

1. C program, we will take an input from the user and check whether the number is prime or not.
2. Write the sum of digits program in c language by the help of loop and mathematical operation only.
3. C program to check whether the given number is positive or negative.
4. Reverse an input number using recursion.
5. C Program to find factorial of a given number.
6. C Program to check if given number is palindrome or not
7. C Program to find factorial of a given number

Name of Program: **PGDCA -II Semester**

Name of Subject: **Paper-I Programming in VB.Net**

*After studying this paper, students should be able to:*

1. Understanding the programming language features and architectures
2. Acquire knowledge about .Net frameworks.
3. Understanding the GUI programming with the help of various controls and objects.
4. Learn about exceptions handling, programming errors and debugging.
5. Understanding the database connectivity with ADO.Net.
6. With the help of this programming language we learn UI design or window based applications.

Name of Subject: **Paper-II Database Management Systems**

*After studying this paper, students should be able to:*

1. Acquire knowledge about database languages (DDL, DML, DCL).
2. Learn how to design a database by using different data models.
3. Able to design a good database using normalization, decomposition and functional dependency.
4. Ability to perform various types of SQL queries.
5. Usage of DBMS design and administration.
6. Familiarization with various features and applications of Database Management system.

Name of Subject: **Paper-III Internet and web technology**

*After studying this paper, students should be able to:*

1. Understand the functions of different layers of TCP/IP and OSI reference models.
2. Understand the principles of creating an effective web page.
3. Classify of networks-LAN, MAN and WAN.
4. Identify and understand various techniques and modes of transmission media with real time applications.
5. Understand the fundamentals of Internet security.
6. Knowledge and Use of web publishing and phases related with the website development.
7. Make use of knowledge related to links, addresses, images, and tables.
8. Knowledge of various formatting options on HTML page and web site.
9. Knowledge of Server Side programming.
10. Various classes of IP Addressing.
11. Develop skills in analyzing the Social sites.
12. Demonstrate an understanding of the foundations and importance of E-commerce.

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Name of Subject: **Paper-IV Practical based on PGDCA-106**

*After studying this paper, students should be able to:*

1. Design the form to Input radius of a circle and find its circumference and area.
2. Design simple calculator.
3. Design the form that calculates Sum, Multiplication, Division and Subtraction of two numbers.
4. Sort array elements in ascending or descending order.
5. Print all unique numbers in the array.
6. Program such that the throw a user define exception when temperature is zero.
7. Design vb.net application that perform insert, delete and update operations on employee table.
8. Program to show data in data grid view.

Name of Subject: **Paper-IV Practical based on PGDCA-107 and PGDCA-108**

*After studying this paper, students should be able to:*

1. Html program to demonstrate hyperlinking between two web pages.
2. Html program to create a web page with a blue background.
3. Html program to create a form.
4. Find all staff that does not work in same cities as the colleges they work.
5. List name of employees in ascending order who are working in your college or all colleges.
6. List the students who have not paid full fee in your college or all colleges.
7. Delete all the records of student who live in city Raipur.
8. List all roll numbers who have passed in first division.