

GOVT. POSTGRADUATE COLLEGE, GUNA

Affiliated to Jiwaji University, Gwalior (M.P.)

Phone No.: 07542-251641

Email : hegpgcgun@mp.gov.in

Website : <https://highereducation.mp.gov.in/?orgid=179>



Postgraduate Diploma in Computer Application PGDCA

Program Specific Outcomes

1. The aim of PGDCA program is to develop dynamic computer professionals in short time.
2. The program covers all aspects and basics in computer application.
3. It also has projects for developing full software in various software languages along with real time environment.
4. Students are eligible to apply for jobs in various multinational companies, industries and banks.
5. They can start their own business in web development and software development.



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I Semester

COURSE TITLE	COURSE LEARNING OUTCOMES
COMPUTER FUNDAMENTALS PGDCA001	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Understand the basics of computer and its application2. Understand hardware and software and their working process3. Understand the primary and secondary memory of computer4. Differentiate between system software and application software5. Learn different types of network and topologies6. Understand different types of communication channels and types of connections
APPLICATION SOFTWARE PACKAGES PGDCA002	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Understand the basic knowledge of Windows and its version2. Work with the basic features of word such as create, edit, save and print documents3. Create high quality document, design and layouts4. Design a simple database and generate a report5. Use the database tools to navigate through and edit the simple applications6. Understand the basic features of MS- Excel7. Differentiate between formulas and functions in Excel8. Create a PowerPoint presentation
PROGRAMMING IN C PGDCA003	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Understand the basic structure of program in C language2. Create algorithm and flowchart3. Learn about constant, variable, token, operator, data types4. Understand the use of different control statements5. Understand user defined and library function6. Learn scope of a variable in C programming and different storage classes7. Learn about array, string, pointer, structure and Union8. Learn the file access method for creating the file

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<p>COMPUTER ORGANIZATIONAL AND ARCHITECTURE</p> <p>PGDCA004</p>	<p><i>After the completion of course, students will be able to-</i></p> <ol style="list-style-type: none"> 1. Understand fundamental of computer 2. Examine the operation of the major building block of computer system 3. Understand different operators and simplify expressions using logic gates 4. Design different combinational logic circuits 5. Understand different flip flop 6. Understand the importance of control unit 7. Learn about different types of printers and memory 8. Identify different types of storage device and media
<p>SOFTWARE ENGINEERING</p> <p>PGDCA005</p>	<p><i>After the completion of course, students will be able to-</i></p> <ol style="list-style-type: none"> 1. Understand software and its process 2. Understand software life cycle model 3. Understand software requirement, specifications and its estimation technique 4. Understand Cost Estimation Models 5. Learn design strategies 6. Understand class diagram, object diagram, case diagram and sequence diagram 7. Understand software testing and its maintenance 8. Understand concept of Software Re-engineering and Software Reverse Engineering
<p>LAB WORK (PAPER 102 103 AND 104) (Practical)</p> <p>PGDCA006</p>	<p><i>At the end of the lab work , a student will be able to-</i></p> <ol style="list-style-type: none"> 1. Familiar with MS Office 2. Create programs using C language 3. Use different types of storage devices and printers

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II Semester

COURSE TITLE	COURSE LEARNING OUTCOMES
OBJECT ORIENTED PROGRAMMING PGDCA202	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Describe OOPs concept2. Understand Classes, Structure, Union, friend function and friend class etc.3. Learn about array, pointer, dynamic allocation operators4. Learn constructor, destructor and different types of constructors5. Learn about function overloading and overload shorthand operator6. Understand inheritance and its different types7. Learn different formatted I/O and how to use manipulators to format I/O
DATABASE MANAGEMENT SYSTEM (DBMS) PGDCA203	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Understand the basic principles of DBMS2. Differentiate between database management system and traditional database3. Learn basic structure of SQL4. Understand relational data model, relational algebra and relational calculus5. Understand the Hierarchical and Network Data Model, its advantages and disadvantages6. Learn first, second and third normal forms7. Learn types of crashes and security in database8. Learn about integrity rules, domain rules, attribute rules, relation rules, database rules9. Understand how to use triggers and assertions
INTRODUCTION TO INTERNET TECHNOLOGIES PGDCA204	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Learn the basics of Internet, email, www, web server, web publishing, ISP etc.2. Understand Client server architecture and its characteristics3. Learn FTP, Telnet, Remote logging, internet chatting4. Learn search engine, its type and working5. Learn basics of HTML, create, save and view a document in HTML6. Identify HTML tags7. Learn how to create, open, save a new web page

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INTRODUCTION TO LINUX PGDCA205	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Learn basic features, installing requirements, architecture of UNIX/LINUX2. Use Linux commands to manage files and file systems3. Learn how to manage multiple processes and change process priority4. Learn printing commands and mathematical commands5. Understand common administrative tasks and the role of system administrator6. Learn how to check and monitor system performance7. Learn how to configure hardware8. Understand basics of shell programming9. Learn awk programming
PHYTHON PROGRAMMING PGDCAPL208	<i>After the completion of course, students will be able to-</i> <ol style="list-style-type: none">1. Learn basic features of Python programming2. Understand different data types, operators, conditional statements, control statements, loop statements etc.3. Learn to define, calling and types of function4. Learn about global and local variable5. Understand how to handle an exception and types of exception6. Understand different OOPS terminology like Inheritance, Data hiding, Polymorphism, Class, Objects, Attributes etc.7. Learn to execute queries with Tkinter
PROGRAMMING LAB ON 202 AND 205 (Practical) PGDCA208	<i>At the end of the lab work, a student will be able to-</i> <ol style="list-style-type: none">1. Perform various office activities on computer system such as installation of software, handling of printers and scanner, internet connection2. Develop general purpose application based on C++

(Dr. Archana Shrotriya)

HOD

Department of Computer Science

(Dr. Niranjan Shrotriya)

CO-ORDINATOR, IQAC

Govt. Postgraduate College,
Guna (M.P.)

(Dr. B.K. Tiwari)

PRINCIPAL

Govt. Postgraduate College,
Guna (M.P.)