Programme Outcomes (PGDCA):

Post Graduate Diploma in Computer Application (PGDCA) requires one years of full time study consisting of two semesters. The Goal of Program is to prepare for all computer Knowledge and Languages in one year by analysing the system and maintain the relationship. Understanding application of Different software needed for rural areas development. To identify, software engineering, networking, hardware knowledge and to utilize the techniques, skills & modern programming tools, software development practice.

Programme Specific Outcomes:

1. Software engineering knowledge - apply knowledge of basic engineering concept for developingsoftware with different from traditional software development concept.

2. Problem analysis – By using concept of entity relationship diagram and basic concept, feasibilitystudy will be operational and technical feasible.

3. Design and development of system - by using concept of entity relationship diagram and basicconcept of computer and developing software.

4. Modern tools uses - create, select and apply appropriate techniques resources like 4G,OOP.

5. Testing - After analysis and design of new system can perform testing of error for error free software.

6. Social responsibility - study will conducted which will concern with operation of system and effectof system on society which called as social feasibility.

7. Ethics - In this integrated one year course ethical principal and commits to professional ethics andresponsibility and norm of software engineering practice.

8. Individual and teamwork - As Academic requirement they have to design team work and now someof them from team to distribute total system.

Course Outcome: It will equip the students with skills required for designing, developing applications in Information Technology. Students will able to learn the latest trends in various subjects of computers & information technology. The PG Diploma is aimed at graduates with a computing background and provides a detailed coverage of the key concepts and challenges in data and resource protection and computer software security. To give hands on to students while developing real life IT application as part of the study. To train graduate students in basic computer technology concepts and information technology applications. Design and develop applications to analyze and solve all computer science related problems.

Paper Code	Paper Name	Lecture	Tutorial	Practicals/Weeks	Exam. Marks	Int.Ass. Marks	Total Marks	Exam Hours
PGD-1101	Computer Fundamentals	5	1	0	60	15	75	3
PGD-1102	Computer Programming using C	5	1	0	60	15	75	3
PGD-1103	DataBase Management System	5	1	0	60	15	75	3
PGD-1104	Data Communications and Networks	5	1	0	60	15	75	3
PGD-PR-1105	Lab1 (Based on PGD-1101 & PGD-1102)	0	0	9	60	15	75	3
PGD-PR-1106	Lab2 (Based on PGD-1103)	0	0	9	60	15	75	3
TOTAL PERIODS =42						**TOTAL MARKS = 450**		

FIRST YEAR (SEMESTER –II)

Paper Code	Paper Name	Lecture	Tutorial	Practicals/weeks	Exam. Marks	Int.Ass. Marks	Total Marks	Exam Hours
PGD-2101	Object Oriented Concepts Using JAVA	5	1	0	60	15	75	3
PGD-2102	Web Technologies	5	1	0	60	15	75	3
PGD-2103	Software Engineering	5	1	0	60	15	75	3
PGD-2104	Computer Based Accounting	5	1	0	60	15	75	3
PGD-PR-2105	Lab3 (Practical based on PGD-2101)	0	0	9	60	15	75	3
PGD-PR-2106	Lab4 (Practical based on PGD-2102)	0	0	9	60	15	75	3
PGD-2107	**Project Work :** Project will involve Development of Business Application / Web Site	0	0	6	0	--	100	- -
TOTAL PERIODS =48						**TOTAL MARKS = 550**		

Semester 1

A. Computer Fundamentals (PGD-1101)

Objective: The objective of the course is to familiarize students with basic concepts related to Computers, DOS, Windows, Linux and application software's like Word-processing, Spreadsheet Software and Presentation Software.

B. Computer Programming C (PGD-1102)

Objective: The objective of the course is to familiarize students with programming concepts of 'C' including functions, Arrays, strings etc. The Student after completing course will be able to: Develop logics to create the programs in C. Also learning the basic programming concepts they can easily switch over to any other language in future. Learning Outcomes: After the completion of this course, the student can develop application. Understand the basic terminology used in computer programming, writing, compiling and debugging involving decision structures, loops and functions, arrays, strings and pointers, union, file handling.

C. Data Base Management System (PGD-1103)

Objective: The objective of the course is to make the students understand Database concepts and SQL. The Student after completing course will be able to: Understand the current theory and practice of database management system. These include data independence, data constraints procedure, integrity, security, recovery, database design and database administration and conceptual data models. Implement a relational database into a database management system. Become proficient in using database query language, i.e., Microsoft Office Access, My SQL.

D. Data Communications and Networks (PGD-1104)

Objective: The objective of the course is to make the students understand Layered structure of Networks and working of different Layered. The Student after completing course will be able to: Learn the need to create a Network. Learn about different layers and protocols present in those layers. Learn to configure the network devices. Learn about IP -Addressing. Learn about Network Security

Semester II

A. Object Oriented Concepts Using JAVA (PGD-2101)

Objective: The objective of the course is to familiarize students with Object Oriented concepts including inheritance, visibility control etc. using JAVA programming language. The Student after completing course will be able to: Understand the concept of OOP as well as the purpose and usage principles of inheritance, polymorphism, encapsulation and overloading. Identify classes, objects, members of a class and the relationships among them needed for a specific problem. Create Java application programs using sound OOP practices (e.g., interfaces and APIs) and proper program structuring (e.g., by using access control identifies, automatic documentation through comments, error exception handling). Use testing and debugging tools to automatically discover errors of Java programs as well as use versioning tools for collaborative programming/editing. Develop programs using the Java Collection API as well as the Java standard class library.

B. Web Technologies (PGD-2102)

Objective: This course familiarizes students with concepts of HTML, CSS, JAVA Scripts and PHP. The Student after completing course will be able to: The course introduces students to basic web design using HTML (Hypertext Markup Language), DHTML (Dynamic Hypertext Markup Language) and CSS (Cascading Style Sheets). The course does not require any prior knowledge of HTML or web design. The course is designed to teach the participants how to create web documents using HTML that comprises the best practices of webpage design through the use of CSS, DHTML and XML.

C. Software Engineering (PGD-2103)

Objective: This course make students understand concepts related to Software Engineering including process model, project management, design and testing. Students would able to know about the software product and process. Know about software characteristics, components and applications, methods and tools. Understand the software development paradigms. The software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction and deployment.

D. Computer Based Accounting (PGD-2104)

Objective: This course make students understand accounting principle and computerized accounting. Students will learn to solve business problems using computer software, manage data to make data-driven decisions using statistical ideas.