

ADCA (Advanced Diploma in Computer Application)

Course Duration: 2 years

Qualification: open to all individuals seeking advanced computer application skills.

Eligibility:

Basic computer knowledge recommended; open to all individuals interested in advancing their computer application skills.

Description:

The Advanced Diploma in Computer Application (ADCA) is an in-depth program designed for learners who want to gain advanced competency in office automation, database management, accounting software, and web development. ADCA builds practical skills through hands-on projects and real-world assignments to prepare students for office roles and IT support positions.

Medium of Instruction:

English

Duration:

Minimum 2 Years

Program Details:

The program is divided into modules with assessments at the end of each module. Emphasis is placed on practical assignments, case studies, and a final project to demonstrate applied knowledge.

Curriculum: View Specialization: -

Module 1: Computer Fundamentals

- **Brief Overview of Computer Fundamentals**
- Introduction to Computers
- Computer Architecture

- Computer Peripherals
- Computer Hardware and Software

Module 2: Operating Systems (OS)

- Windows
- Linux/Unix
- DOS

Module 3: Programming Languages

- C
- C++
- Java
- Python

Module 4: Web Technologies

- HTML, CSS, and JavaScript
- Web Development Tools
- Server-side Scripting (PHP, ASP.NET, Node.js)
- Database Connectivity (MySQL, SQL Server)

Module 5: Database Management System (DBMS)

- Introduction to DBMS
- SQL and Database Design
- Data Security and Integrity

Module 6: Software Engineering

- Software Development Life Cycle (SDLC)
- Software Testing
- Project Management

Module 7: Networking Concepts

- Basics of Networking
- TCP/IP Protocol Suite
- Network Security

Module 8: Mobile App Development

- Introduction to Mobile App Development
- Android Development
- iOS Development

Module 9: Data Structures and Algorithms

- Basic Data Structures (Arrays, Linked Lists, Trees)
- Algorithm Design and Analysis

Module 10: Cyber Security

- Introduction to Cybersecurity
- Security Threats and Countermeasures

Module 11: Soft Skills and Communication

- Effective Communication
- Presentation Skills
- Teamwork and Leadership

Module 12: Project Work

- Practical Application of Knowledge Acquired Throughout the Course

