

What Is ADCA Course?

ADCA is one of the most popular and demanded Computer course in Advanced Diploma. ADCA (**Advanced Diploma in Computer Application**) is a full one-year diploma program that provides advanced computer knowledge in depth. It includes technical, theoretical, and practical's aspects. This course helps you learn about various computer applications such as HTML, Operating System, MS Office, Internet Applications, DBMS, and many more.

ADCA Course Syllabus

- Computer Fundamentals
- Microsoft Window XP/ Vista
- Microsoft PowerPoint
- Microsoft Office
- Microsoft Database Access
- Microsoft Excel
- Microsoft Word
- Email and Internet
- Computer Network and Multimedia Concept
- Introduction to Computers
- Principal of Programming
- Word Processing and Spreadsheet
- Tally 5.4
- Visual Basic
- C Programming
- C++ Programming
- Project Management
- Unix Operating System
- DTP

Additional Skills That you Learn with ADCA

The candidates who have basic knowledge of computer can easily catch these skills in computer programming. The course provides you with the most important skills in the computer department. After completing, the course qualifiers can make professional Documents, Document cover, Data entry, Online Emails, Tally Accounting, Taxation Entry, Graphic Designer, Image Designer, Searching, Pamphlets, posters, flyer, hoardings, and Surfing.

The list doesn't end here as there are plenty of fields opening after completion of this course. You can apply for further education in a particular department to harness more skills in that subject. Or, you can choose subjects based on your interest in software. This method will help you get better with the desired software and help in expecting better job packages.

Job Opportunities after completing ADCA course

Nowadays, in every field, in every profession, computer knowledge is an essential aspect. There is a huge demand for such candidates who are genuinely qualified with a computer degree. The qualifying candidates can work in the IT sector, ERP, PC Assembly, and E-business. In the world of technology, the pronounced companies require employees who know about database management, programming languages, computer software development, system analysis, and many others.

You can consider an accountant job as an option and find excellent salary jobs in the below-mentioned job profiles –

- Technical Writing
- Database Development and Administration
- Programming- Development
- teaching
- Language instructor
- Software designer
- Engineer
- Applications Support Engineer
- Computer Technician

- Clerk
- System Officer
- Computer Operator
- Back-office Executor
- BPO Executive
- Computer Technician
- Photoshop Designer
- graphic Designer

Job Description and Salaries

Below given are the popular Job description of most popular jobs for ADCA degree holders. Apart from the job profile, you can expect these salaries-

- **Computer Operator-3 Lakh per annum**

A computer operator controls the computer equipment and gives instructions to employers. The important part of this job is to have better coordination in teams and getting better productivity.

- **Web Designer- 5 lakh per annum**

A person who creates the layout and outlook of a particular website and keeping the site updated is known as a web Designer , creating extension pages, maintenance, and few other types of job options are available in this field.

- **Software Developer-5 lakh per annum**

A person who maintains the designing, software, testing, updating, and installing in computers is known as Software Developer. From the development of computer software to games, there is a range of career options in this field.

- **Accountant- 4 lakh per annum**

A person who controls the account information and entries manages the liability, assets, and prepares a capital account is known as an Accountant. The command in TALLY, BUSY, and such other programs is important to get this job.

- **C++ Developer- 6 lakh per annum**

A person who prepares code, debug, and software applications and works in a team. As you can say that the package is excellent in this job profile, but the work is also slightly typical and requires excellency in skills.

What Is Full Stack Development?

In the software world, the terminology is often influenced by English idioms — or expressions that say one thing and mean another. To be clear, it's very likely that a developer of any kind has never come across a legitimate 'stack' in any of their code. Whether that's a stack of pancakes or a stack of laundry, these are not important elements of coding.

That said, the stack is a relevant metaphor to describe the layers involved in software development. Integral to this idea, is that software development builds on top of itself rather than being linear.

Since a stack by definition is a large quantity of something, it makes sense that this term would be appropriate for software development. Because in this context, a stack in its fullest form has all the ingredients for a complete software project.

A full stack, for example, is composed of all the components necessary for the **frontend** and **backend** of development. Clearly, front-end and back-end are idioms too, representing different parts of the stack that need to be addressed.

A **full stack developer** will have knowledge of the various roles that enable full stack web development. This would mean having a deep knowledge of client software and server software, including of course web frameworks that will ease the software development process.

What Are the Skills Needed for a Full Stack Developer?

The front-end technologies that full stack developers should be familiar with are front-end programming languages and the web frameworks that support them. Of course, this is in addition to HTML and CSS which are classic to front-end development.

On the back-end, a full stack developer should be qualified for database management. To that effect, they should have a reasonable skill set relating to back-end languages — namely, a programming language and a query language.

To add, full stack developers must know how to work with version control systems (VCS), application programming interfaces (APIs), and servers.

What Are the Most Popular Technology Stacks for a Full Stack Development Project?

A technology stack is a means of describing the different technologies to go into a software development project. Using tech stacks to recount this information is a streamlined way of communicating how an application is being built.

Some popular tech stacks are detailed here: -

LAMP Stack

The LAMP stack denotes the following components: Linux, Apache, MySQL, PHP/Perl/Python. In respective order, these technologies reflect the operating system, web server, database management system, and the programming language for the application.

MEAN Stack

MEAN stands for MongoDB, Express.js, AngularJS, and Node.js. MongoDB is a database; Express.js a web application framework; and AngularJS is another web framework that empowers developers to code JavaScript into HTML.

Notice that much of the stack includes JavaScript frameworks. This is a huge advantage for the software stack overall. Using JavaScript as the primary programming language of the stack makes development more convenient for JavaScript experts.

This solution stack also does not rely on an operating system, another advantage. Higher portability is the result.

MERN Stack

In a similar fashion, MERN delineates MongoDB, Express.js, React.js, and Node.js. Here is yet another collection of JavaScript frameworks, driving its popularity. Utilizing React rather than Angular, however, makes it possible to develop mobile and hybrid apps.

In this course we will be focusing on the current most demanding Stack, ie., MERN Stack.

What you'll learn

- Learn how to build big full stack app from scratch
- Learn how to connect Front-End application (React) with Backend application (Express, MongoDB, NodeJs)
- Learn how to implement JWT for authentication and authorization
- Learn how to implement React Hooks, Async/Await, React Router 6, Axios
- Learn how to implement ES6 in Node
- Learn how to deploy MERN app on Heroku/Netlify
- Learn best practices of Front-End and Server applications/projects