

IBM - Basic Programming for Beginners





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About the Program

In today's digital age, programming has become an essential skill across various industries. Our Basic Programming for Beginners Professional Program is designed to equip you with foundational programming knowledge, setting the stage for a successful career in the tech world.

IBM - Basic Programming for Beginners offers a comprehensive introduction to the world of coding. This program covers fundamental concepts, tools, and techniques that are crucial for any aspiring programmer. you will gain hands-on experience through real-world projects and coding exercises.



Key Features

Beginner-Friendly Curriculum : No prior programming experience is required. Our curriculum is tailored for beginners, ensuring that concepts are introduced in a simple and easy-to-understand manner.

Experienced Instructors : Learn from industry experts who bring years of professional experience and a passion for teaching.

Hands-On Projects : Apply what you learn through practical projects that mimic real-world scenarios. This hands-on approach helps reinforce your understanding and build your confidence.

Flexible Learning : Our online format allows you to learn at your own pace, from the comfort of your home. Access course materials, video lectures, and assignments at any time.

What You Will Learn

Software Foundation Course - C : Start with the basics of programming in C, a powerful and widely-used language that provides a strong foundation.

Software Foundation Course - C++ : Build on your C knowledge with C++, an extension of C that includes object-oriented features.

Java Fundamentals : Learn the fundamentals of Java, a versatile and widely-used programming language in web and mobile development.

Python : Dive into Python, known for its simplicity and versatility, perfect for beginners and used in various domains.

SQL and Relational Databases 101 : Understand the basics of SQL and how relational databases work, essential for data management and manipulation.

RDBMS - Database Fundamentals : Gain deeper insights into database design, management, and optimization techniques.

Agile Methodologies : Learn the principles of Agile methodologies, focusing on iterative development, collaboration, and flexibility.

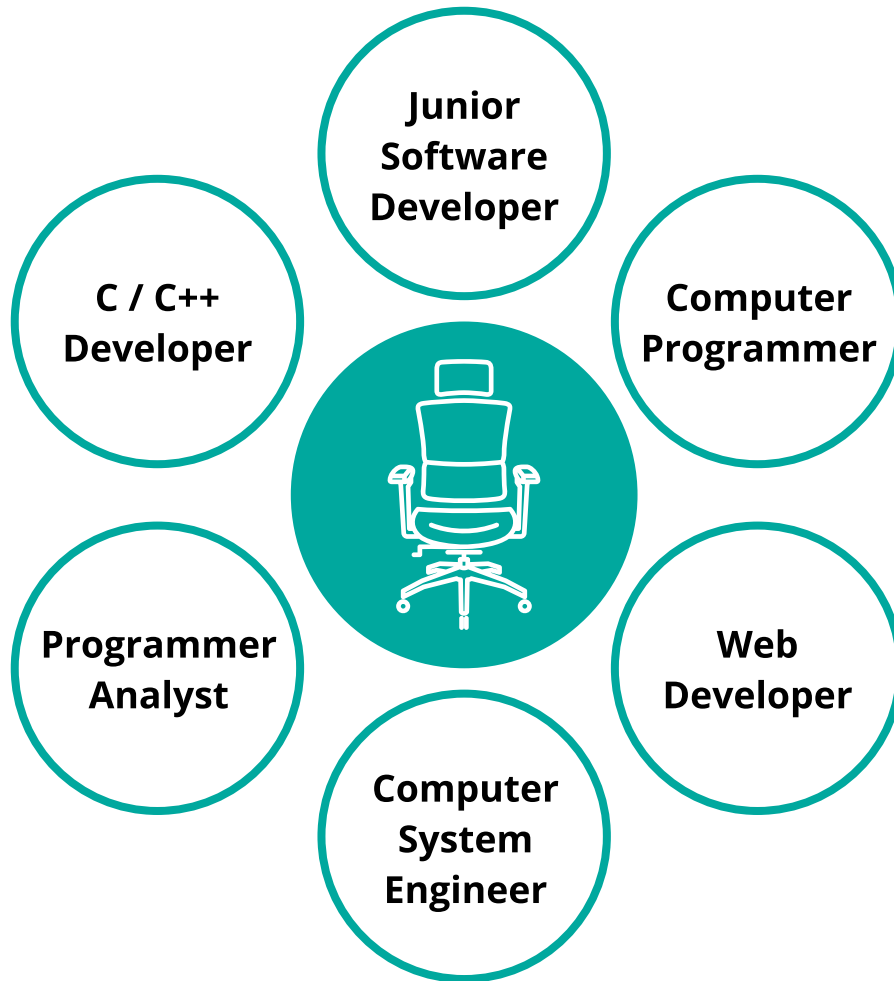
DevOps Fundamentals : Understand the core principles of DevOps, emphasizing the integration of development and operations, continuous delivery, and automation to enhance software development efficiency and collaboration.

JavaScript : Get introduced to JavaScript, the language of the web, and learn how to create interactive web pages.





Career Opportunities



Course Benefits

2000+
Enrolled

4.8 / 5
Rating

Self Paced
E-Learning
Course Material

Lab/
Assignments

Hands on
Practice Test

60+
Hours

6
Months

Dought Clearnace
Session

IBM
Certifications

100%
Job Assistance

About TheLearnAge

TheLearnAge is your ultimate online educational platform offering over 350+ online courses designed to upgrade your skills and keep you ahead in today's smart world. With industry-leading partners such as **IBM, Microsoft, Cisco, Tally, Adobe, Autodesk, Apple, PMI, Meta, and many more**, you can learn directly from the experts and get certified in the latest technologies and tools that drive innovation.

TheLearnAge provides certification programs to validate skills and boost career opportunities within a flexible and innovative learning setting. Students have the freedom to engage with state-of-the-art curriculum at their preferred speed, enhancing their market value and competitiveness. With a user-friendly interface and a dedication to excellence, the platform guarantees a top-notch educational journey for skill improvement and career progression.

Certified By



Master the future with TheLearnAge. Learn from the best, including IBM, Adobe, Autodesk, PMI, Cisco, Microsoft, Tally, Apple, Meta. Get certified in the latest technologies. Advance your career with flexible, expert-driven courses.



Why TheLearnAge



Extensive Course Selection

Offers over 350+ online courses covering a wide range of topics to upgrade skills and knowledge.



Industry-Leading Partners

Collaborates with top industry leaders like IBM, Microsoft, Cisco, Tally, Adobe, Autodesk, Apple, and PMI, Meta, providing expert-led courses and certifications.



Official Certification Program

Provides certification programs that validate learner's skills and credentials, enhancing their career prospects and competitiveness in the job market.



Placement Opportunities

Enables learners to receive placement offers from big companies, boosting their employment potential



Intuitive Interface

Features a user-friendly learning management system that makes course navigation and usage seamless.



Marketability and Career Enhancement

Equips learners with the skills and certifications needed to succeed and stay competitive in today's rapidly evolving job market.

Eligibility Criteria

For admission into this Full Stack Developer, candidates :

- ✓ 12th class or an 1 equivalent level.
- ✓ A degree/diploma in engineering
- ✓ A bachelor's or master's in computer science
- ✓ Inclination towards Programming
- ✓ Working Professional
- ✓ Any technical Degree



How It Works!!!



1. Sign up

Sign Up with Mobile Number / Email Id.

2. Browse and Select

Once you have signed up and logged in, you can start exploring our wide range of specialized and job-ready e-learning programs & certifications.

3. Add Courses to Cart

After you've found the courses/ programs that align with your learning goals, you can add them to your cart.

4. Make Payment

When you are ready to enroll in your selected courses/programs, you can proceed to make the payment securely on our platform.

5. Confirmation Email

After successful payment, you will receive a confirmation email acknowledging your course/program enrollment within 24-48 Hours.

6. Access Course Materials

Once you receive the email with course links, you can access the course materials and resources.

7. Certificate Eligibility

Complete your purchase course/ program within 6 months to be eligible for certifications.

8. Completion

You will have to give an online exam conducted by IBM and on passing that exam, you will receive your IBM certificates.

Demand for Programming skills

In the midst of the ongoing digital revolution, the demand for programming skills has skyrocketed. As technology continues to permeate every aspect of our lives, from smartphones to smart homes, the ability to understand and create software has become increasingly valuable. Whether it's developing new applications, improving existing systems, or automating tasks, programming is at the heart of innovation.



High Demand in Various Industries

Technology : The tech industry is the most obvious beneficiary of programming skills. Companies like Google, Microsoft, and Amazon are constantly on the lookout for talented programmers.

Finance : In finance, programming skills are used to develop trading algorithms, manage data, and create financial models.

Healthcare : The healthcare industry utilizes programming to manage patient records, develop diagnostic tools, and analyze medical data.

Manufacturing : Automation and robotics in manufacturing rely heavily on programming to optimize production processes and ensure quality control.

Education : The education sector uses programming to develop educational software, manage student data, and enhance e-learning platforms.

Growing Job Market

The job market for programmers is expanding rapidly. According to the U.S. Bureau of Labor Statistics, employment of software developers is projected to grow 22% from 2020 to 2030, much faster than the average for all occupations. This surge is driven by the increasing demand for mobile applications, the rise of e-commerce, and the growing need for cybersecurity.

Versatility of Programming Skills

Basic programming skills are not just for aspiring software developers. They are invaluable across a wide range of professions. Data analysts, digital marketers, engineers, scientists, and even business managers benefit from a fundamental understanding of programming. These skills enable professionals to automate repetitive tasks, analyze large data sets, and develop innovative solutions to complex problems.

Entry Point to Advanced Learning

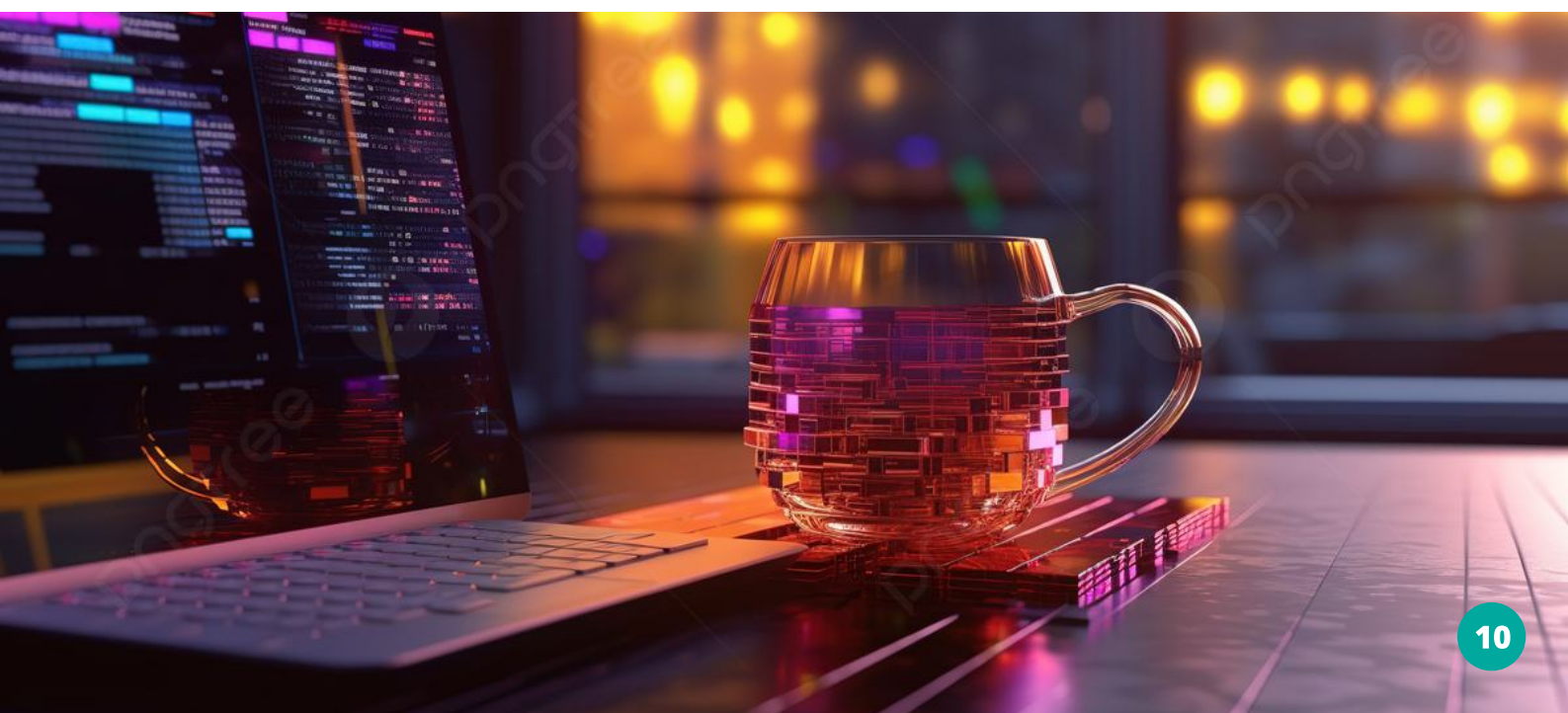
Learning basic programming serves as a crucial entry point to more advanced topics in computer science and information technology. Once individuals grasp the basics, they can explore specialized fields such as artificial intelligence, machine learning, data science, and web development. This foundational knowledge opens doors to numerous educational and career opportunities.

Competitive Salaries

Programming skills are highly valued and often come with competitive salaries. Entry-level programmers can expect to earn a substantial starting salary, with significant potential for growth as they gain experience and expertise. This financial incentive is a major driver for individuals choosing to learn programming.

Lifelong Learning and Innovation

The field of programming is dynamic and constantly evolving. Learning to program is a lifelong journey that encourages continuous learning and innovation. By staying up-to-date with the latest technologies and trends, programmers can remain competitive in the job market and contribute to cutting-edge developments in their fields.





CAREER PATH WITH SALARY PACKAGES

Entry-Level / Junior Programmer

INR 3 L — INR 4.5 L per year

Mid-Level Programmer

INR 6 L — INR 8 L per year

Senior Programmer

INR 10 L — INR 12 L Per Year

Lead Developer / Team Lead

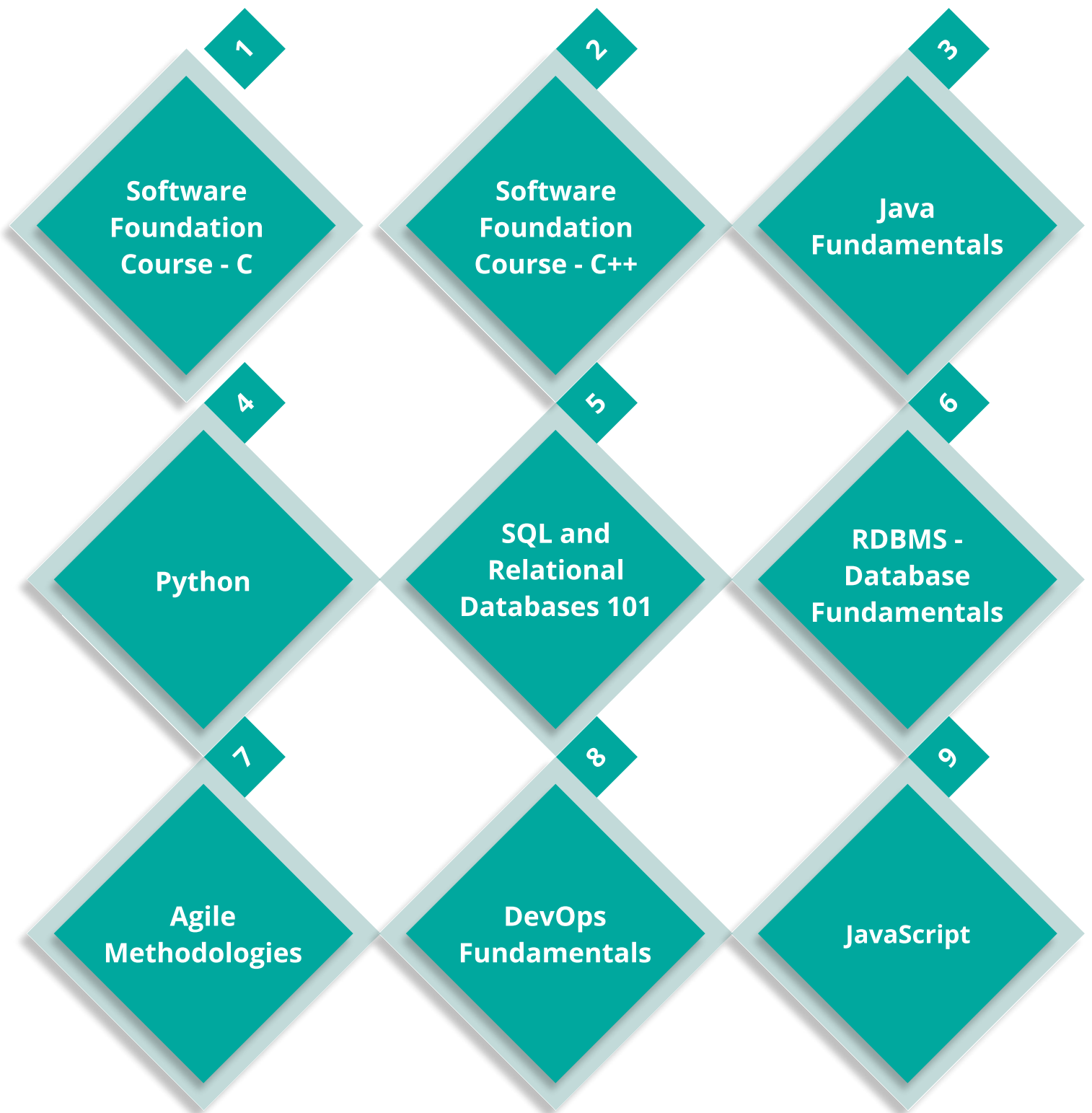
INR 14 L — INR 16 L Per Year

Director of Programmer

INR 20 L — INR 24 L Per Year



Learning Path Structure





Learning Path Details

Course 1 : Software Foundation Course - C

Module 1 : History of Computing

Module 2 : Introduction to C language

Module 3 : Functions

Module 4 : Pointers

Module 5 : Structure and Unions

Module 6 : File Input output

Module 7 : Software in real world

Course 2 : Software Foundation Course C++

Module 1 : Introduction to programming languages

Module 2 : Conditional programming constructs

Module 3 : Classes and Objects

Module 4 : Polymorphism, Inheritance and Encapsulation

Module 5 : Operator Overloading

Module 6 : File Handling

Module 7 : Advanced Topics

Module 8 : XML



Module 9 : Introduction to Eclipse

Module 10 : Java Development Tools

Module 11 : The Eclipse Debugger

Module 12 : The Eclipse Plug-in Architecture

Module 13 : Eclipse Web Tools Platform (and related tools)

Module 14 : Software in Real World - The IBM Canvas

Course 3 : Java Fundamentals

3

Module 1 : Object Oriented Concepts

Module 2 : Overview of Java Platform

Module 3 : Java Language Fundamentals

Module 4 : Creating Classes and Objects

Module 5 : Implementing OOP Concepts

Module 6 : Useful Java API Classes

Module 7 : Exceptions

Module 8 : File Handling

Module 9 : MultiThreading

Module 10 : Collection Framework

Module 11 : Lambda Expressions

Module 12 : JDBC



Course 4 : Python

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Module 1 : Introduction to PYTHON

Module 2 : Deep dive into PYTHON

Module 3 : Python Libraries

Module 4 : Error Handling

Module 5 : Other Topics

Module 6 : Regression (Use case study)

Module 7 : Other Regression related topics

Module 8 : Advance

Course 5 : SQL and Relational Databases 101

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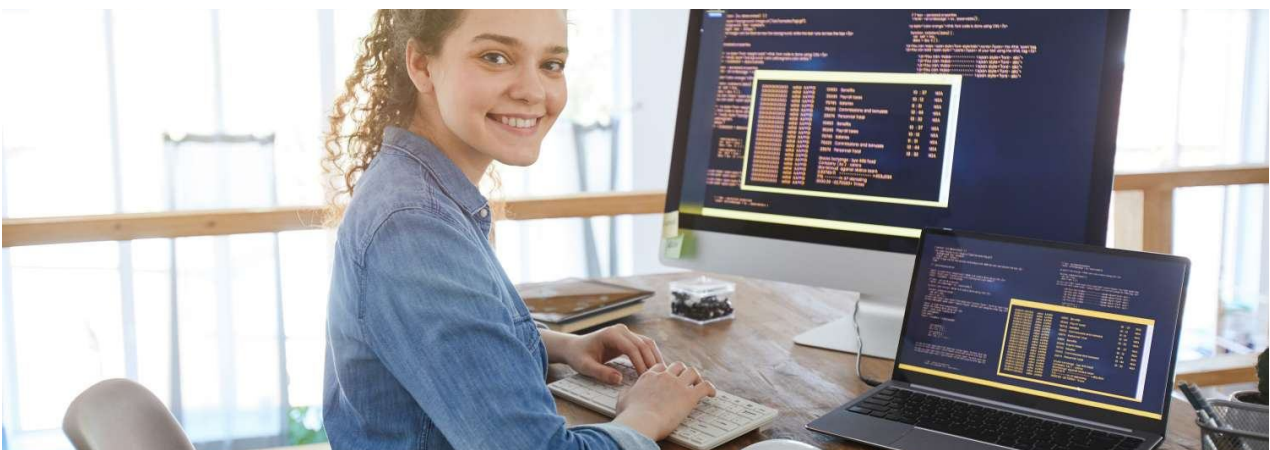
Module 1 : SQL and Relational Databases 101

Module 2 : Relational Model Constraints and Data Objects

Module 3 : Data Definition Language (DDL) and Data Manipulation Language (DML)

Module 4 : Advanced SQL

Module 5 : Working with multiple tables





Course 6 : RDBMS- Database Fundamentals

6

Module 1 : Understanding Database Concepts

Module 2 : Understanding Database Storage

Module 3 : Entities and Relationships

Module 4 : The Relational Data Model

Module 5 : Normalization

Module 6 : Database Design and Performance Tuning

Module 7 : Creating Database Objects

Module 8 : Manipulating Data

Module 9 : JDBC As The Fundamental Java API

Module 10 : JPA as the JAVA ORM API

Module 11 : Database Security

Module 12 : Understanding Database Backup And Restore

Module 13 : Introduction To Mysql

Course 7 : Agile methodology

7

Module 1 : What is a project

Module 2 : Project Execution Methodologies

Module 3 : Agile Deep Dive

Module 4 : Scrum – Deep Dive

Module 5 : Scrum Artifacts

Module 6 : Scrum Ceremonies



Module 7 : Scrum Sprint Planning

Module 8 : Scrum Metrics

Module 9 : Additional Info

Course 8 : DevOps Fundamentals

8

Module 1 : DevOps Fundamentals

Module 2 : DevOps Usecase

Module 3 : Advanced DevOps

Module 4 : Introduction to DevOps on IBM Cloud

Course 9 : JavaScript

9

Module 1 : JavaScript Basics

Module 2 : JavaScript Objects

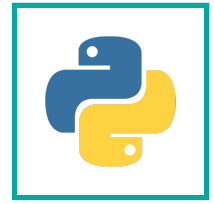
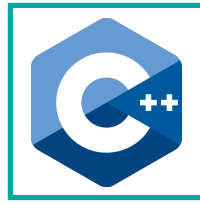
Module 3 : JavaScript Variables and Control Statements

Module 4 : JavaScript Functions

Module 5 : Client-Side Java Script



Course Inclusions



Certification

Upon completion of this Self-paced E-Learning course and passing the online examination taken by IBM, you will receive an official IBM certificate to your registered Email ID.

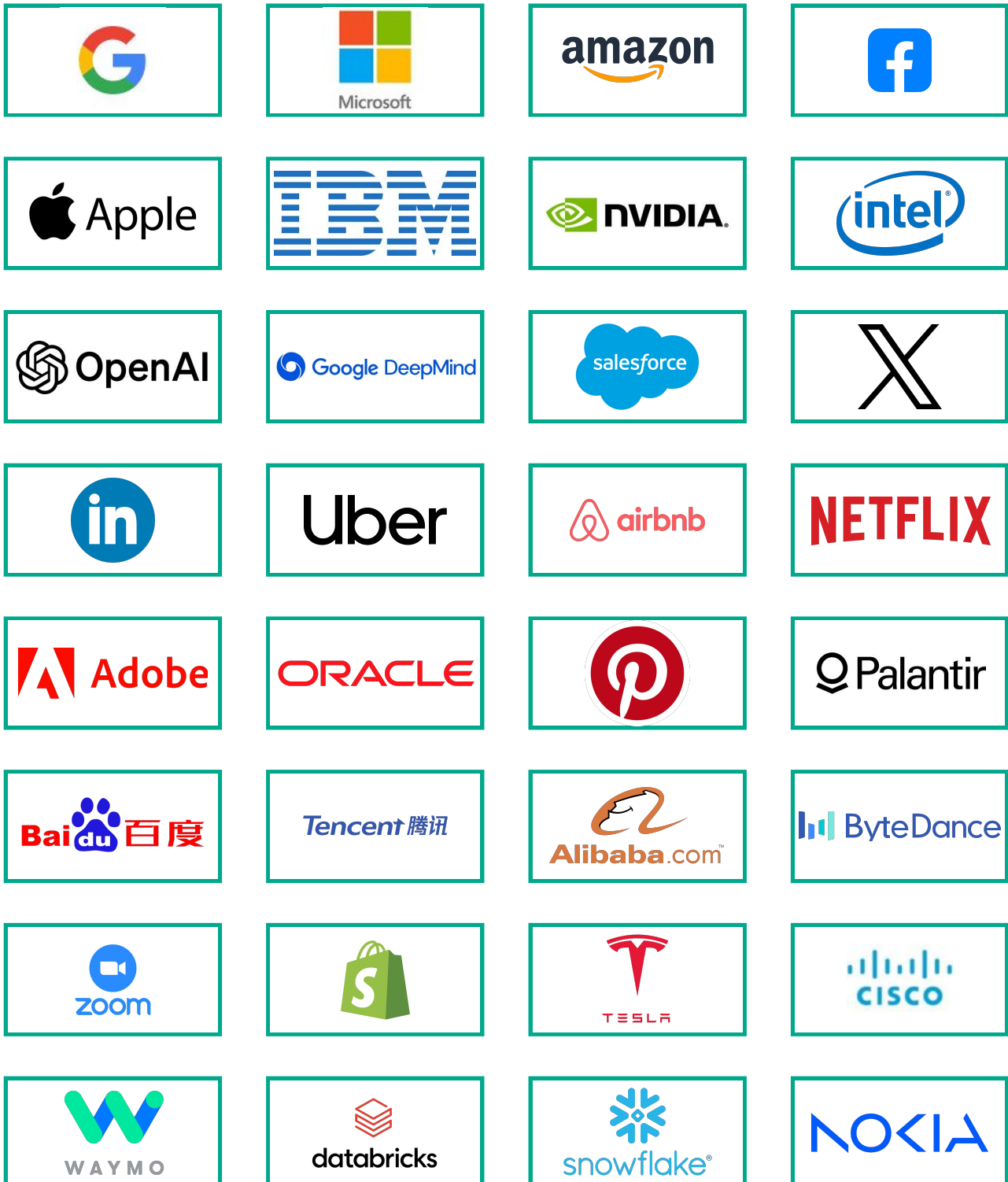
You will receive 9 certifications from IBM for each of the courses in the learning path. These certificates will testify to your skills as an expert Data Science Engineer. These Certificates are recognized across the world.



So be a part of the IBM Certified online courses program today and begin your journey towards a brighter future!

Job Placement Opportunities

All these following Companies are waiting for you :



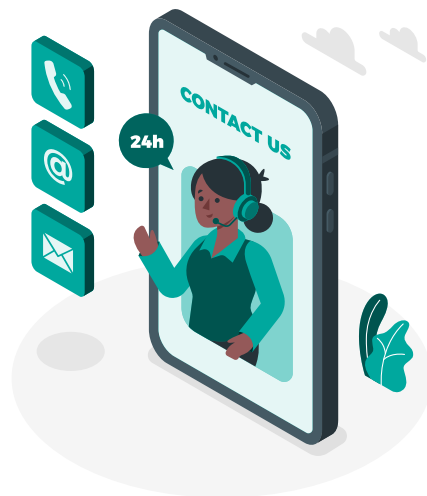
Talk to Admissions Counselor

Our admissions counselors are prepared to address your questions or concerns about this program.


Our team is available to:

- Answer your questions about the admission process.
- Provide insight into the curriculum, program outcomes, and related information.
- Give any other queries.
- **Call Us : +91-75728 45000**

Contact Us



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