



**HIMT GROUP
OF INSTITUTIONS
GREATER NOIDA**

Estd. 1998

BACHELOR OF COMPUTER APPLICATION WITH DATA SCIENCE

BCA Data Science | Duration - 3 Years

ADMISSIONS
OPEN
2022

**INDUSTRY LED COURSE FOR
FUTURE SKILL PROFESSIONALS
FOR A CAREER YOU DESERVE**

www.imaginxp.com

What is Data Science?

Data is ruling every industry today. It never fails to give insights about existing and new technologies as well as static and dynamic processes. It is a discipline that makes use of algorithms to understand the effectiveness of a design or method to keep a check on effectiveness and structure. It has become an integral part of businesses across domains globally. An increase in end to end data management and mining platforms has been witnessed recently. Indeed, it is the most sought after future skill.

Why should you study

Data Science?



Data Mining & Big Data are widely used practices in today's era

Huge demand for Data Scientists, Miners, Technology Architects with immense growth opportunities



India being the second highest recruiter in the world for Data Scientists

Start your career with an average salary of 8.56 LPA



Why should you take BCA with Data Science from us?

- Up To 10 Lakh Average Annual Salary
- Learn From 1250+ Corporate Coaches
- Live Project & Internship Opportunities With 250+ Multinational Brands
- 3T Cohort Teaching Model – Faculty, Mentors & Corporate Coaches
- Industry-Led Curriculum For Enhanced Employability
- Hands-On Learning & Portfolio Creation Support
- 100% Placement Assistance
- 1000+ Companies Recruiting



Program Overview

This course is designed to provide students with the necessary knowledge to be successful in the various areas of software and computer applications. It includes foundational concepts of data algorithms, statistical foundations. Python programming, Big Data Analytics, R Programming and Data Handling and Visualisation Techniques where one can enhance their skill to handle large sets of data. This is an excellent choice for students who are interested in learning more about these subjects and in addition, you will also gain hands-on learning experience in data science tools such as Jupyterlab, R Studio, GitHub and so on. The algorithms and tools taught through the course will help you in understanding the predictive analysis aspect of Data Science, which is used in modeling the business structure.

Aside from having a solid foundation in programming languages and data science, this course will also provide you with the necessary knowledge to develop and implement computer applications. With the rapid technological advancements that have occurred in this field, there are numerous job opportunities for students who are interested in becoming data scientists and machine learning engineers.



What will you learn?

Computer Fundamentals

Learn the fundamentals of crunching data with programming principles, algorithm, digital communication skills and automation

Programming Languages

Learn programming languages such as C, C++, Python, Java, Hadoop

Data Structures

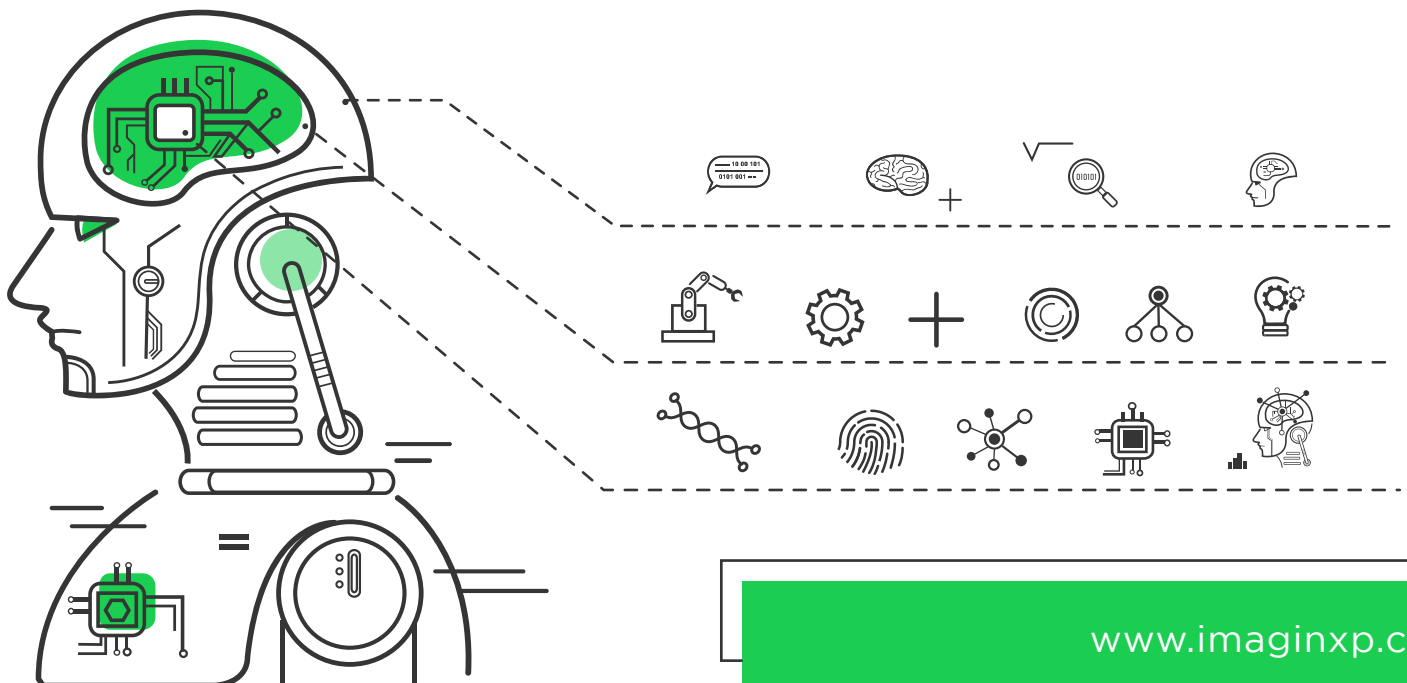
Learn object oriented programming, web technologies, statistical foundation, data handling and visualisation

Big Data

Learn Big Data Analytics with data mining concepts and techniques as well as computing systems for data analytics with lab practices

Industrial Training and Project

Get hands on training of handling data and presenting result oriented projects under expert supervision to develop a knack for experimentation and innovation



BCA Data Science Course Structure

Course Structure: 1st Year

Sem 1	Code	Topic
Subject 1	BCA101	Mathematics - I
Subject 2	BCA102	Programming Principle and Algorithm
Subject 3	BCA103	Computer Fundamental and Office Automation
Subject 4	BCA104	Principle of Management
Subject 5	BCA105	Business Communication
Subject 6	BCA106	Environmental Studies
TOTAL		

Sem 2	Code	Topic
Subject 1	BCA201	Mathematics - II
Subject 2	BCA202	C Programming
Subject 3	BCA203	Organization Behaviour
Subject 4	BCA204	Digital Electronics & Computer Organization
Subject 5	BCA205	Financial Accounting and Management
Subject 6	BCA206	Computer Laboratory & Practical Work of C Programming
TOTAL		



Course Structure: 2nd Year

Sem 3	Code	Topic
Subject 1	BCA301	Object Oriented Programming Using C++
Subject 2	BCA302	Programming Principle and Algorithm
Subject 3	BCA303	Computer Architecture and Assembly Language
Subject 4	BCA304	Business Economics
Subject 5	BCA305	Elements of Statistics
Subject 6	BCA306P	Computer Laboratory and Practical Work of OOPS
Subject 7	BCA307P	Computer Laboratory and Practical Work of DS
Subject 8	IXPSPEC1	Programming Principle and Algorithm
Subject 9	IXPSPEC2	Computer Architecture and Assembly Language
Subject 10	IXPSPEC3	R Programming for Data Science

TOTAL

Sem 4	Code	Topic
Subject 1	BCA401	Computer Graphics and Multimedia Applications
Subject 2	BCA402	Operating System
Subject 3	BCA403	Software Engineering
Subject 4	BCA404	Optimization Techniques
Subject 5	BCA405	Computer Laboratory and Practical Work and Computer Graphics and Multimedia Application
Subject 6	BCA406	Mathematics III
Subject 7	IXPSPEC4	Big Data Analytics
Subject 8	IXPSPEC1	Data Handling and Visualisation Techniques
Subject 9	IXPSPEC2	Specialisation Project

TOTAL

Course Structure: 3rd Year

Sem 5	Code	Topic
Subject 1	BCA501	Introduction to DBMS
Subject 2	BCA502	Java Programming and Dynamic Webpage Design
Subject 3	BCA503	Computer Network
Subject 4	BCA504	Numerical Methods
Subject 5	BCA505P	Minor Project
Subject 6	BCA506P	Viva-Voice on Summer Training
Subject 7	BCA507P	Computer Laboratory and Practical Work of DBMS
Subject 8	BCA508P	Computer Laboratory and Practical Work of Java Programming and Dynamic Webpage Design
TOTAL		

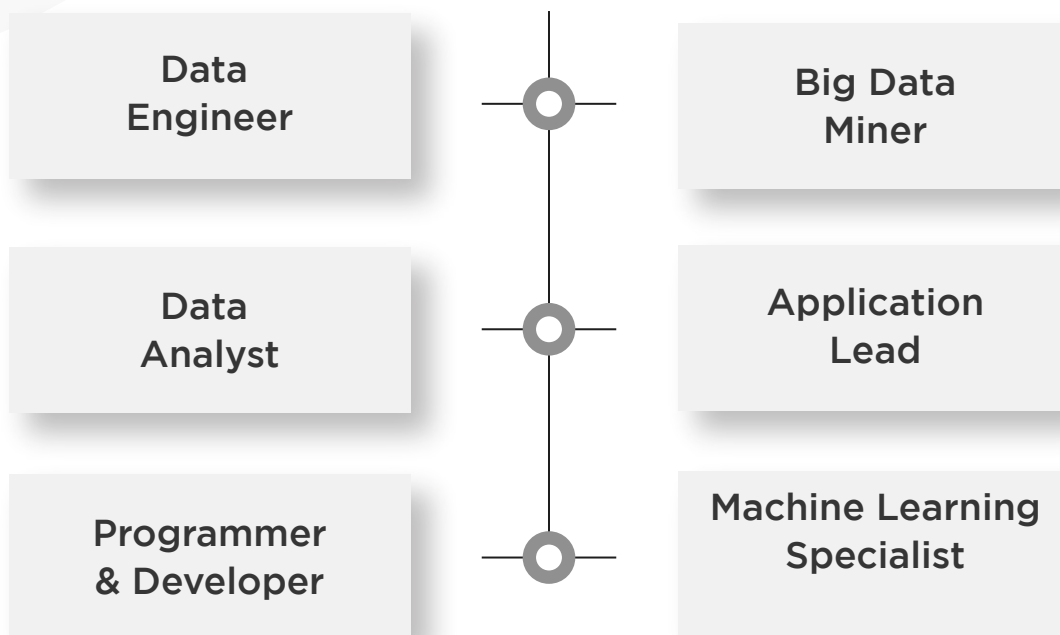
Sem 6	Code	Topic
Subject 1	BCA601	Computer Network Security
Subject 2	BCA602	Information System: Analysis Design and Implementation
Subject 3	BCA603	E-Commerce
Subject 4	BCA604	Knowledge Management
Subject 5	BCA605P	Major Project
Subject 6	BCA605P	Presentation/Seminar Based on Major Project
TOTAL		



Job Opportunities

After completing BCA Data Science, you can start your future oriented career to bring transition in the industry of your interest. You can work in the biggest growing industries such as BFSI, ecommerce, IT, international trade, AIML, etc.

JOB OPPORTUNITIES



Companies Hiring Data Science Professionals

About ImaginXP



ImaginXP is India's leading Higher EdTech Organization in Future-Skills, offering Degrees & For-Credit Certification Programs for university aspirants, & Standalone Certification Programs for working professionals, both in Online & Offline mode. It has tie ups with 30+ universities across India, with more universities adding to the Ecosystem.

Headquartered in Pune - since its establishment in 2011, ImaginXP is seamlessly paving its path towards its mission of making India Future-Ready. Today with two more Offices in Jaipur & Gurgaon, ImaginXP is at the forefront of upskilling learning courses across all future-skill categories such as:

- Design (UX, UI, Communication design, Industrial design)
- Technology (Fintech, Blockchain, Cybersecurity, AI/ML, Data Science, RPA)
- Business (Disruptive Entrepreneurship, Management, Finance, Digital Journalism, Digital Banking, Fintech, Digital Marketing, Health Management)

ImaginXP offers Degrees, Online Work-Integrated Degrees, and Subjects to universities under its brand name - **DegreeKaro**, which is embedded in the B2B model. Hence, successfully creating a bridge between Universities and Corporates.

As well as, ImaginXP has its own Ed-Learning app - MY COACH, having over 1250+ Experienced & Skilled Coaches to provide Mentorship, & Over 75K registered user to date.

Usps of ImaginXP

30+

Tie Ups with Renowned Universities, institutions

50+

Corporate Partnerships

80+

Full-Time Faculty

150+

Design Workshops

80000+

Community Members

1250+

Corporate Coaches

2000+

Full-time Students

15000+

Strong Network of Alumni

1000+

Hours of Video Content

About

HIMT Group of Institutions



Established in 1998, HIMT Group of Institutions is one of the oldest and best management institutes in the region. The Institute is approved by the All India Council for Technical Education (AICTE), Ministry of HRD (MHRD), Government of India, Bar Council of India (BCI), NCTE, SCERT and Pharmacy Council of India and Affiliated to Dr. A.P.J. Abdul Kalam Technical University (AKTU), Lucknow, Chaudhary Charan Singh University, Meerut & Board of Technical Education, Lucknow. The ISO 9001:2008 Certification obtained by the Institute speaks loudly about the quality standards maintained by the Institute.

HIMT Group of Institutions is offering 10+ University affiliated programme under different Institutions. HIMT started on humble grounds, recognizing the importance and requirement of a rapidly changing domestic and global environment to create a niche in the education sector by imparting technical and professional education through state-of-the-art technology and teaching methodology. The basic philosophy of HIMT is based on the fabric of Eastern thinking and Western concepts. To achieve this goal, the group has targeted the imparting of a global perspective to the young students.