



MAKOUT

Formerly known as
West Bengal University of Technology



B.Sc in Data Science

4 Years Full Time Program

www.inspiria.edu.in



Data science is a multidisciplinary field, a concept that combines statistics, data analysis, and related methods to understand and analyse real-world phenomena through the use of data. It is multidisciplinary in the sense that it extracts knowledge from structured and unstructured data using algorithms, scientific methods, processes, and systems, as well as dealing with data mining, big data, and machine learning operations.



Data Science is one of those courses that goes hand in hand with the ever-changing trends in not only information technology but also in a variety of other fields. This programme will introduce students to the concepts of data science, big data, machine learning, and data mining. It will also equip students with multidisciplinary skills. The programme, B.Sc. in Data Science introduces students to the world of big data, all the while providing them with all of the necessary skills and tool knowledge to be successful in the Data Science industry.



OBJECTIVES



01

To introduce students to data science, big data, machine learning, and data mining concepts.

02

To provide students with data analysis and quantitative analytic skills in order to solve business problems.



03

To familiarise students with statistical data analysis techniques that are commonly utilised in business decision-making.



04

To teach students about data transformation techniques and tools, as well as data mining, data formats, machine learning algorithms, data visualisation, and optimization.



COURSE MODULE

First Semester

- ▶ Digital Electronics
- ▶ Digital Electronics Lab
- ▶ Programming for Problem Solving through C
- ▶ Programming for Problem Solving Lab
- ▶ Principles of Management
- ▶ General Elective
- ▶ English & Professional Communication
- ▶ Life Skills & Personality Development
- ▶ Yoga/ Health & Wellness/ Sports

Second Semester

- ▶ Computer Architecture
- ▶ Basics of Web Design Using Html, CSS, Java Script
- ▶ Basics of Web Design Using Html, CSS, Java Script Lab
- ▶ Organization Behaviour
- ▶ General Elective
- ▶ Modern Indian Languages and Literature
- ▶ IT Skills
- ▶ Critical Thinking/ NSS/ Mental Health/Environmental Studies

Third Semester

- ▶ Python Programming
- ▶ Python Programming Lab
- ▶ Data Structure through C
- ▶ Data Structure Lab
- ▶ Principles of Marketing
- ▶ General Elective
- ▶ The Constitution, Human Rights and Law
- ▶ Understanding basics of Cyber Security

Fourth Semester

- ▶ Database Management System
- ▶ DBMS Lab
- ▶ Operating System
- ▶ Software Engineering
- ▶ Human resource Management
- ▶ E-Commerce
- ▶ Society Culture and Human Behavior

Fifth Semester

- ▶ PHP WITH MYSQL
- ▶ PHP WITH MYSQL LAB
- ▶ Object Oriented Programming with Java
- ▶ Object Oriented Programming with Java Lab
- ▶ Entrepreneurship
- ▶ Financial management
- ▶ Internship

Sixth Semester

- ▶ Advance Java With Web Application
- ▶ Advance Java With Web Application Lab
- ▶ Unix and Shell Programming
- ▶ Unix and Shell Programming Lab
- ▶ Networking
- ▶ Customer relationship management
- ▶ Career planning and management

Seventh Semester

- ▶ Data Mining & Data Warehousing/Machine Learning / Pattern Recognition / Algorithm Analysis
- ▶ Data Mining & Data Warehousing Lab /Machine Learning Lab / Pattern Recognition Lab/ Algorithm Analysis Lab
- ▶ Research Methodology
- ▶ Research Methodology Lab
- ▶ Cyber Security
- ▶ Consumer Behavior
- ▶ Strategic management

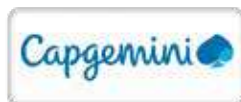
Eighth Semester

- ▶ Cloud Computing / Block Chain Technology / Artificial Intelligence
- ▶ Cloud Computing Lab/ Block Chain Technology Lab / Artificial Intelligence Lab
- ▶ Statistical Analysis with R Programming
- ▶ Statistical Analysis with R Programming Lab
- ▶ Research Project

ELIGIBILITY

Candidates applying for admission in B.Sc. in Data Science should be a Higher Secondary (10+2) pass from any recognized board.

SOME OF OUR RECRUITMENT PARTNERS



CAREER OPPORTUNITIES



DATA SCIENTIST



DATA ARCHITECT



BUSINESS ANALYST



DATA SOLUTIONS ANALYST



STATISTICAL ANALYST



BUSINESS PROCESS ANALYST



DATA MINING EXPERT



DATABASE ADMINISTRATOR



DATA ANALYST



BUSINESS INTELLIGENCE EXPERT



MACHINE LEARNING EXPERT



CRM ANALYST

FACULTIES



Prashant Priyadarshi



Neha Thapa



Nandan Das



Souvik Ganguly



Pritam Taldhi



Jyotirmoi Biswakarma



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