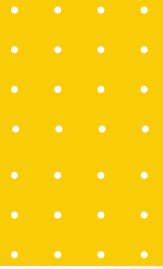




**MAKAUT**  
Formerly known as  
West Bengal University of Technology



# **B.Sc in IT (Artificial Intelligence)**

4 Years Full Time Program

[www.inspiria.edu.in](http://www.inspiria.edu.in)



The **BSc in Information Technology (IT)** program provides a solid foundation in programming, networking, cyber-security, and data management. With a specialization in Artificial Intelligence (AI), students explore machine learning, natural language processing, and neural networks. As AI transforms industries—from recommendation systems to autonomous vehicles—the demand for skilled professionals is growing. This course blends theory with practical learning, preparing graduates for exciting careers in AI and IT.

Learning AI empowers students to build intelligent systems capable of solving complex real-world problems. Mastery of trending tools such as TensorFlow and PyTorch, used for machine learning and deep learning, equips students with the skills to develop advanced AI models. OpenAI's platforms enable work on natural language processing (NLP) tasks like chatbots, while cloud services like Google Cloud AI and Microsoft Azure facilitate scalable AI applications. IBM Watson provides enterprise-grade solutions for industries to deploy AI at scale. By integrating AI into their coursework, students can explore diverse career opportunities as data scientists, AI engineers, or software developers, making them well-prepared for the future of technology.



# OBJECTIVES



01

Provide students with a solid foundation in the principles and concepts of Information Technology and Artificial Intelligence.

02

Introduce students to key AI areas, including Machine Learning, Big Data, Deep Learning, and programming languages like Python.



03

Build strong knowledge in computer science and information technology, preparing students for diverse careers in AI.

04

Offer hands-on industry experience, allowing students to apply their skills and knowledge in practical settings.



# COURSE MODULE

## First Semester

- ▶ Programming using C lab
- ▶ Introduction to AI
- ▶ Principles of Management
- ▶ Any one from GE baskets Basket A or D
- ▶ English & Professional Communication
- ▶ Life Skills & Personality Development
- ▶ Yoga/ Health & Wellness/ Sports

## Second Semester

- ▶ Data Structure and Algorithms
- ▶ Machine Learning
- ▶ Organization Behavior
- ▶ Any one from GE baskets, Basket B or E
- ▶ Modern Indian Languages and Literature
- ▶ IT Skills
- ▶ Critical Thinking/ NSS/ Mental Health

## Third Semester

- ▶ Intelligence of Biological Systems
- ▶ Operating System Concepts with UNIX Lab
- ▶ Principles of Marketing
- ▶ Any one from GE baskets Basket C or F
- ▶ The Constitution, Human Rights & Law
- ▶ Understanding basics of Cyber Security

## Fourth Semester

- ▶ Introduction to drones and it's applications
- ▶ OOPS with Python/ Java Lab
- ▶ Database Management Systems
- ▶ Database Management Systems Lab
- ▶ Human resource Management
- ▶ Sales and distribution management /E- Commerce

## Fifth Semester

- ▶ Natural Language Processing
- ▶ Natural Language Processing Lab
- ▶ Soft Computing
- ▶ Soft Computing Lab
- ▶ Customer relationship management
- ▶ Career planning and management

## Sixth Semester

- ▶ Introduction to Robotics
- ▶ Principles of Deep Learning
- ▶ Principles of Deep Learning Lab
- ▶ Pattern Recognition
- ▶ Pattern Recognition Lab
- ▶ Customer relationship management
- ▶ Career planning and management

## Seventh Semester

- ▶ Theory of Data Science
- ▶ Formal Language and Automata Theory
- ▶ Internet of Things
- ▶ Internet of Things Lab
- ▶ Consumer behavior
- ▶ Strategic management

## Eighth Semester

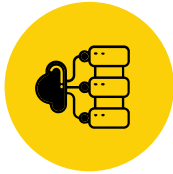
- ▶ Big Data Analytics
- ▶ Cloud Computing
- ▶ Research
- ▶ Project

# ELIGIBILITY

Candidates applying for admission in B.Sc. in IT (Artificial Intelligence) should be a Higher Secondary (10+2) from any recognized board with English as a subject.



# CAREER OPPORTUNITIES



**BIG DATA ARCHITECT**



**BUSINESS INTELLIGENCE DEVELOPER**



**DATA SCIENTIST**



**MACHINE LEARNING ENGINEER**



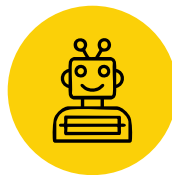
**DATA MINING AND ANALYSIS**



**AI ENGINEER**



**RESEARCH SCIENTIST**



**ROBOTICS ENGINEER**



**NATURAL LANGUAGE PROCESSING ENGINEER**



**AI DATA/BUSINESS ANALYST**



**BIG DATA ENGINEER**



**QUANTITATIVE ANALYST**

# FACULTIES



Prashant Priyadarshi



Subhro Sarkar



Souvik Ganguly



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