MSc in Big Data Technology – Course Schedule

Students are required to complete a total of 30 credits of coursework, including 12 credits of core courses and 18 credits of elective courses. Subject to approval, students may take a maximum of 6 credits of courses from the Master of Science in Information Technology.

**Tentative course offering schedule:**

### 2020-21 Fall Term
- MSBD 5001  Foundations of Data Analytics*  
- MSBD 5003  Big Data Computing*  
- MSBD 5006  Quantitative Analysis of Financial Time Series  
- MSBD 5007  Optimization and Matrix Computation  
- MSBD 5008  Introduction to Social Computing  
- MSBD 5011  Advanced Statistics: Theory and Applications  
- MSBD 5012  Machine Learning  
- MSBD 5015  Artificial Intelligence  
- MSBD 6000I  Text Mining  
- MSBD 5010  Image Processing and Analysis

### 2020-21 Spring Term
- MSBD 5002  Data Mining and Knowledge Discovery*  
- MSBD 5004  Math Methods for Data Analysis*  
- MSBD 5005  Data Visualization  
- MSBD 5009  Parallel Programming  
- MSBD 5013  Statistical Prediction  
- MSBD 6000D  Intro to Blockchain Technology  
- MSBD 6000E  Intro to Financial Technology  
- MSBD 6000G  Deep Learning Meets CompVision  
- MSBD 6000H  Natural Language Processing

*Core course

Courses are offered subject to needs and availability.

For course details, please refer to:

![Course Catalog](image-url)