

FACULTY OF MANAGEMENT SCIENCES

Master of Science in Business Analytics

SZABIST offers Master of Science in Business Analytics with specialization in Finance, Marketing, Management /HR & Supply Chain Management. The program comprises of 30 credit hours & is based on two streams. Research Thesis / Capstone Project Stream requires the student to complete 8 Courses of 24-credit hours and one Research Thesis or Capstone Project of 6-credit hours. The minimum time duration to earn MS Degree by this stream is 2 years. Course Work Stream requires the student to complete 10 Courses of 3credit hours each. The minimum time limit to complete MS Degree by Course Work stream is 1.5 years. The maximum duration to complete this degree is 4 years.

Course Curriculum:

1. MS By Course Work Stream

The Scheme of Study is as follows;

- Six Compulsory Courses (6x3 =18 CHs) from Business Analytics Core Domain
- Four Elective Courses (4x3=12 CHs) from area of specialization)
- No IRS or Thesis

2. MS By Research Work Stream

The Scheme of Study is as follows;

- Six Compulsory Courses (6x3 =18 CHs) from Business Analytics Core Domain
- Two Elective Courses (2x3=6 CHs) from area of specialization)
- Thesis /Capstone Project (6 CHs)

First Year

Fall Semester

BSA 5xxx Business Analytics Tools-I	
BSA 5102 Mathematics and Statistics	
BSA 5103 Research Methodology	
BSA 5104 Strategic Decision Making	

Spring Semester

BSA 5201 Programming Using Python	
BSA 5xxx Business Analytics Tools-II	
BSA 5xxx Elective I	
BSA 5xxx Elective II	

Second Year

Fall Semester

BSA 5xxx Elective III	
BSA 5xxx Elective IV	

Electives (Electives in any of following areas subject to the offering of course)

- Finance
- Marketing
- Management/HR
- Supply Chain Management

First Year

Fall Semester

BSA 5xxx Business Analytics Tools-I	
BSA 5102 Mathematics and Statistics	
BSA 5103 Research Methodology	
BSA 5104 Strategic Decision Making	

Spring Semester

BSA 5201 Programming Using Python	
BSA 5xxx Business Analytics Tools-II	
BSA 5xxx Elective I	
BSA 5xxx Elective II	

Second Year

Fall Semester

BSA 5xxx Thesis-I OR	
BSA 5xxx Capstone Project-I	

Spring Semester

BSA 5xxx Thesis-II OR	
BSA 5xxx Capstone Project-II	

Electives (Electives in any of following areas subject to the offering of course)

- Finance
- Marketing
- Management/HR
- Supply Chain Management

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ELECTIVES

Finance

- BSA 5221 Fintech/Data Science for Finance
- BSA 5222 Applied Time Series Analysis for Forecasting
- BSA 5322 Risk Management
- BSA 5321 Financial Modelling

Marketing

- BSA 5231 Digital Marketing and Social Media
- BSA 5332 Retailing and analytics
- BSA 5232 Market Strategy and Forecasting
- BSA 5331 Customer Relations Management

Management/HR

- BSA 5241 Decision Support System
- BSA 5221 Management Models
- BSA 5221 Disaster management (GIS)
- BSA 5221 HR Analytics
- BSA 5221 Performance Management

Supply Chain Management

- BSA 5221 Strategies for Managing Supply Chain
- BSA 5221 Advanced Warehouse, Store & Material Management
- BSA 5221 Green Supply Chain Management
- BSA 5221 Distribution Networks

