

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 work Stream requires the student to complete 8 Courses of 24-credit hours and one Research Thesis or Capstone Project of 6-credit hours each. 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:

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

First Year

Fall Semester

BSA 5101 Data Mining
BSA 5102 Maths and Statistics
BSA 5103 Research Methodology
BSA 5104 Strategic Decision Making

Spring Semester

BSA 5201 Programming Using Python
BSA 5202 Tools for Business Analytics
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

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 5101 Data Mining
BSA 5102 Maths and Statistics
BSA 5103 Research Methodology
BSA 5104 Strategic Decision Making

Spring Semester

BSA 5201 Programming Using Python
BSA 5202 Tools for Business Analytics
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

FACULTY OF MANAGEMENT SCIENCES

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 5342 Management Models
- BSA 5341 Disaster Management (GIS)
- BSA 5242 HR Analytics
- BSA 5243 Performance Management

Supply Chain Management

- BSA 5252 Strategies for Managing Supply Chain
- BSA 5251 Advanced Warehouse, Store & Material Management
- BSA 5352 Green Supply Chain Management
- BSA 5351 Distribution Networks

