

TO DATA ANALYSIS AND DECISION

# LMAD

**BACHELOR IN MATHEMATICS APPLIED**



**Level**

Bachelor



**Prerequisite**

Bac



**Credits**

180 ECTS



**Duration**

6 semesters



**Study mode**

Initial training

Full time

**Opportunity for  
Double Degree**



[www.esb.tn](http://www.esb.tn)

## Objective

The world has become mathematical. Decision-making is based on the analysis of increasingly massive data – Big Data. The **Bachelor's degree in Mathematics Applied to Data Analysis and Decision Support** calls on artificial intelligence and machine learning tools, as well as mathematical and statistical skills and know-how.

▶ **This degree is aimed at graduates with a bachelor's degree in mathematics, computer science, experimental sciences, technical sciences or equivalent.**

## Content

### **MATHEMATICS & STATISTICS**

Data analysis, Discrete & convex optimization, statistical analysis, regression & predictive models, Stochastic processes

### **BUSINESS INTELLIGENCE**

Programming (Python), Databases, Data Warehouse, Data Mining, Big Data, Artificial Intelligence, Machine Learning

### **SOFT SKILLS**

Seminars, Personal Development, Business Games, Languages, etc.

### **PROFESSIONAL PROJECT**

Internships, PFE, Integrated projects, Company visits, Workshops, Case studies, etc.

# LMAD



## Skills

- ▶ Help organizations create value or innovate in respective sectors through their decisions based on mathematical rigor & inferred statistical techniques.
- ▶ Master the analysis and processing of massive data (Big Data).
- ▶ Master data science programming languages.
- ▶ Assess profitability and manage risk for financial products.
- ▶ Implement data mining and exploitation methods.
- ▶ Organize and supervise surveys and polls.
- ▶ Assist in the digital transformation of companies.

## Sectors of activity

- ▶ IT service companies
- ▶ Software publishers
- ▶ Banks & Insurance
- ▶ Commercial & industrial companies

## Professions

- ▶ Data Analyst
- ▶ Insurance Actuarial Analyst
- ▶ Front Office Financial Market
- ▶ Credit & Bank Risk Analyst
- ▶ Data Miner / Data Scientist
- ▶ BI Expert
- ▶ Business Analyst
- ▶ Statistician

## Professional partnerships

- ▶ Digital service companies
- ▶ Banks & Insurance
- ▶ Consulting firms

✉ [contact.esb@esprit.tn](mailto:contact.esb@esprit.tn) ☎ +216 70 168 700

📍 Campus ESB Lot N° 46, Z.I Chotrana II, 2088, Ariana, Tunisia