



DATA SCIENCE

UNDERGRADUATES DEGREE POST-BACCALAUREATE PROGRAM

2026 – 2027

Semester 1

1 DISCRETE MATHEMATICS

2 LINEAR ALGEBRA

3 PYTHON PROGRAMMING

4 ADVANCED PYTHON PROGRAMMING

5 APPLIED CALCULUS

6 COMMUNICATION SKILLS I

7 LIFE SKILLS AND COEXISTENCE

Semester 2

1 INTRODUCTION TO COMPUTING
& INFORMATION TECHNOLOGY

2 ADVANCED COMPUTING &
INFORMATION TECHNOLOGY

3 STATISTICS

4 STATISTICAL MODELING

5 RELATIONAL DATABASES

6 COMMUNICATION SKILLS II

7 AI FOR EVERYONE



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Semester 3

1 ANALYZING DATA

2 ALGORITHMS AND DATA STRUCTURES

3 ADVANCED DATA STRUCTURES
AND COMPUTABILITY

4 DIFFERENTIAL EQUATIONS
AND MULTIVARIABLE CALCULUS

5 ADVANCED CALCULUS

6 COMMUNICATION SKILLS III

7 ENVIRONMENT AND HEALTH

Semester 4

1 DATA VISUALIZATION

2 PRACTICAL MODERN STATISTICS

3 INTEGRATED PROJECT

4 ETHICS, LAW, AND GOVERNANCE IN IT

5 PYTHON FOR MACHINE LEARNING
AND DATA SCIENCE

6 FOREIGN LANGUAGE FOR
BEGINNERS I

7 YOUTH EMPOWERMENT



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Semester 5

1 ADVANCED STATISTICAL MODELLING

2 APPLIED STATISTICAL MODELLING

3 DATABASE MANAGEMENT SYSTEMS

4 ADVANCED DATA ANALYTICS

5 DATA MINING

6 FOREIGN LANGUAGE FOR BEGINNERS II

7 LEARNING AND INFORMATION TECHNOLOGY

Semester 6

1 MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE A

2 MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE B

3 GRADUATION PROJECT

4 BIG DATA ANALYTICS

5 .NET PROGRAMMING

6 CHINESE FOR BEGINNERS I

7 PRINCIPLES OF ENTREPRENEURSHIP