

# 3rd and 4th Year Courses in School of Mathematical Sciences and Information Technology

Fall (5/6 Semester)

Spring (5/6 Semester)

3rd  
Year

Logic  
Advanced Linear algebra  
Fundamental of Programming

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Discrete Mathematic  
Linear Modeling  
Dynamical Systems ↔ Analysis of Algorithms

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Multivariate Calculus ↔ Computer Architecture

Measure Theory ↔ Data Bases

Fall (7 / 8 Semester)

Spring (7 / 8 Semester)

4th  
Year

PDEs ↔ Networks and Distributed Systems  
Functional Analysis ↔ Operating Systems  
Elective  
Elective

Decidability and Computational Complexity  
Probability & Statistics ↔ Software Engineering  
Elective  
Elective

**5+4+4 = 13 courses**

**6+3+4 = 13 courses**