



BACHELOR OF SCIENCE IN MATHEMATICS AND APPLIED MATHEMATICS

KPT/JPS [N/461/6/0031] 02/23 [MQA/PA9536]

DURATION

3 years

INTAKE

February / April / September

MEDIUM OF INSTRUCTION

English

ABOUT THE PROGRAMME

The Mathematics and Applied Mathematics programme at Xiamen University (XMU), offered by the School of Mathematical Sciences (SMS), was introduced in 1922, among the first batch of programmes at XMU. The world famous mathematician, Chen Jingrun, once studied in this programme from 1949 until 1953. In the “2018 Best Universities for Mathematics” published by US News and World Report, XMU was ranked 81st globally, and 10th among the universities in China. The discipline of mathematics at XMU has been ranked among the top 1% globally in Essential Science Indicators (ESI) since 2014, and the ranking has been improving every year. Currently SMS has 89 full-time faculty members and 14 distinguished visiting professors, among whom 97% are PhD holders. From 2013 to 2017, SMS has secured a total of 117 research grants from the National Natural Science Foundation, amounting to RMB 47.24 million. 551 SCI journal papers were published by the School faculty from 2013 to 2016. SMS also publishes the Journal of Mathematical Study, and jointly publishes the SCIE journal, East Asian Journal of Applied Mathematics, with Global Science Press. Benefiting from the cooperation with various universities around the world, it hosts more than 100 mathematicians to XMU annually.

The Mathematics and Applied Mathematics programme at Xiamen University Malaysia (XMUM) draws on and benefits from the excellent educational resources of SMS. We provide high quality education in the area of mathematics and applied mathematics for those who wish to pursue or further advance their careers in areas which require advanced knowledge and skills of mathematical sciences. With a balance between theories and applications, we are dedicated to equipping students with analytical, critical thinking and problem solving skills which enable them to adapt to the ever-changing world. Besides the solid foundation laid by the core subjects, students can choose from a wide range of sub-disciplines to focus on in order to prepare themselves for various career paths.

PROGRAMME HIGHLIGHTS

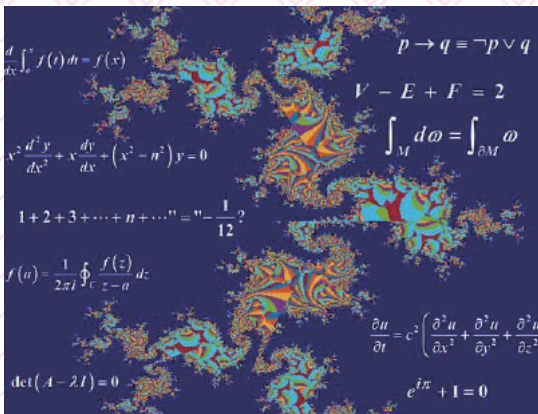
- A unique programme with Chinese elements meeting international standards
- Access to excellent educational resources of XMU.
- A strong curriculum which emphasizes both theories and real-life applications.
- A stepping stone to pursue a career that requires sophisticated logical thinking and analytical skills

CAREER OPPORTUNITIES

Graduates can pursue a wide range of careers, including:

- Mathematician
- Lecturer or teacher
- Statistician
- Data Scientist
- Logistician
- Actuary
- Financial Analyst
- Computer Scientist
- Bank Manager





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ENTRY REQUIREMENTS

**For other equivalent qualifications, please consult our programme counsellor.*

STPM	A pass in STPM with at least a Grade B (GP 3.0) in 2 subjects including Mathematics
A-LEVEL	A pass in A-Level with at least a Grade B in 2 subjects including Mathematics
UEC	A pass in UEC with at least a Grade B in 5 subjects including Advanced Mathematics
Foundation/Matriculation	A pass in Foundation/Matriculation with at least CGPA 2.0 out of 4.0 including a Grade B in Mathematics
Diploma	A pass in Diploma with at least CGPA 2.5 out of 4.0 including a Grade B in Mathematics

MAIN COURSES

MAJOR CORE COURSES

- Calculus
- Linear Algebra
- Probability
- Statistics
- Programming Language
- Algebra and Analytic Geometry
- Discrete Mathematics
- Ordinary Differential Equations
- Mathematical Analysis
- Abstract Algebra
- Complex Analysis
- General Topology
- Partial Differential Equations
- Numerical Analysis
- Differential Geometry
- Internship
- Final Year Project

MAJOR ELECTIVE COURSES

- General Physics
- Principles of Economics
- Combinatorics
- Real Analysis
- Differentiable Manifolds
- Algebraic and Geometric Topology
- Matrix Groups
- Matrix Theory
- Analytic Number Theory
- Algebraic Number Theory
- Dynamical System
- Stochastic Processes
- Regression Analysis
- Time Series
- Financial Mathematics
- Big Data
- Design and Analysis of Algorithms

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The information in this brochure is correct at the time of publication. Xiamen University Malaysia (XMUM) reserves the right to change the information in line with updates from time to time. Please check the website (www.xmu.edu.my) for latest information.

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