

DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICS (04G10070)

DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICS (04G10089)

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Science

All the courses listed below are prescribed for this degree

| PROGRAMME YEAR 1 – 120 Credit Points | | | | | |
|---|----------------------------|---------------|---------------------|--------------|---------------|
| First Half Session | | | Second Half Session | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| PD 1001 | Professional Skills Part 1 | 0 | | | |
| MA 1005 | Calculus I | 15 | MA 1508 | Calculus II | 15 |
| MA 1006 | Algebra | 15 | MA 1511 | Set Theory | 15 |
| Plus 60 credit points from courses of choice. | | | | | |

| PROGRAMME YEAR 2 – 120 Credit Points | | | | | |
|---|------------------|---------------|---------------------|-------------------|---------------|
| First Half-Session | | | Second Half-Session | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| MA 2008 | Linear Algebra I | 15 | MA 2508 | Linear Algebra II | 15 |
| MA 2009 | Analysis I | 15 | MA 2509 | Analysis II | 15 |
| Plus 60 credit points from courses of choice. | | | | | |

| PROGRAMME YEAR 3 – 120 Credit Points | | | | | |
|--|--|---------------|--------------------------|------------------------|---------------|
| First Half-Session | | | Second Half-Session | | |
| Code | Course Title | Credit Points | Code | Course Title | Credit Points |
| MX 3020 | Group Theory | 15 | MX 3535 | Analysis IV | 15 |
| MX 3035 | Analysis III | 15 | MX 3531 | Rings and Fields | 15 |
| MX 3036 | Metric and Topological Spaces | 15 | MX 3536 | Differential Equations | 15 |
| Plus 15 credits from: | | | | | |
| MX 4087 OR MX 4086 | Financial Maths* Optimisation Theory* | 15 | MX 4540 OR MX 4549 | Knots* Geometry* | 15 |
| Plus 15 credit points from courses of choice. | | | | | |
| *Courses are offered in alternate years. MX4086 and MX4549 are offered in 2017-2018. | | | | | |

PLEASE SEE OVER →

| PROGRAMME YEAR 4 – 120 Credit Points | | | | | |
|---|--|---------------|---------------------------------|--------------------------------------|---------------|
| First Half-Session | | | Second Half-Session | | |
| Course Code | Course Title | Credit points | Course Code | Course Title | Credit points |
| MX 4082 | Galois Theory | 15 | MX 4557 | Complex Analysis | 15 |
| MX 4023 | Project | 15 | | | |
| Plus 60 credits from: | | | | | |
| MX 4083 | Measure Theory | 15 | MX 4545 | Number Theory | |
| MX 4085 | Nonlinear Dynamics I | 15 | MX 4546 | Algebraic Topology | 15 |
| MX 4087 OR MX 4086 | Financial Maths* Optimisation Theory* | | MX 4553 | Modelling Theory | 15 |
| | | 15 | MX 4555 | Nonlinear Dynamics & Chaos Theory II | 15 |
| | | 15 | MX 4540 OR MX 4549 | Knots* Geometry* | 15 |
| Plus 15 credit points from courses of choice. | | | | | |
| *Courses are offered in alternate years. MX4086 and MX4549 are offered in 2017-2018. | | | | | |
| A graduating curriculum for the honours degree must include 90 credit points from level 4 courses. | | | | | |

| Notes | |
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| 1. | Designated Programme: See Supplementary Regulation 1 |
| 2. | Where alternatives are offered, choice may be restricted by timetable constraints. |
| 3. | Candidates seeking entry to the Junior Honours programme must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including those compulsory courses required to enter programme year 3. |