# DEGREE OF BACHELOR OF SCIENCE IN APPLIED MATHEMATICS (04G12070)

# DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN APPLIED MATHEMATICS (04G12089)

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 |
| EG 2012 | Engineering Mathematics 2 | 15 | | | |
| MA 2008 | Linear Algebra I | 15 | MA 2508 | Linear Algebra II | 15 |
| MA 2009 | Analysis I | 15 | MA 2509 | Analysis II | 15 |
| Plus 45 credit points from courses of choice. | | | | | |

| PROGRAMME YEAR 3 – 120 Credit Points | | | | | |
|---|---|---|---|---|---|
| First Half-Session | | | Second Half-Session | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| MX 3020 | Group Theory | 15 | MX 3535 | Analysis IV | 15 |
| MX 3035 | Analysis III | 15 | MX 3536 | Differential Equations | 15 |
| Plus 45 credits from: | | | | | |
| MX 3036 | Metric and Topological Spaces | 15 | MX 3531 | Rings and Fields | 15 |
| 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.  MX 4086 and MX 4549 will be offered in 2019-2020. | | | | | |

| PROGRAMME YEAR 4 – 120 Credit Points | | | | | |
|---|---|---|---|---|---|
| First Half-Session | | | Second Half-Session | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| PX 4011 | Project A | | | | 30 |
| MX 4085 | Non-Linear Dynamics and Chaos Theory 1 | 15 | MX 4553 | Modelling Theory | 15 |
| | | | MX 4555 | Non-Linear Dynamics and Chaos Theory 2 | 15 |
| Plus a further 30 credit points from MX4 courses and 15 credits from courses of choice. | | | | | |
| **A graduating curriculum for the Honours programme 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. | |