

**SCHEME OF STUDIES OF M.SC MATHEMATICS (SESSION 2018  
AND ONWARDS)**

| <b><u>YEAR 1</u></b>      |                       |                                  |                    |                     |
|---------------------------|-----------------------|----------------------------------|--------------------|---------------------|
| <b>S.NO</b>               | <b>SEMESTER</b>       | <b>COURSE TITLE</b>              | <b>COURSE CODE</b> | <b>CREDIT HOURS</b> |
| 1                         | <b>1<sup>st</sup></b> | Real Analysis-I                  | MTH-514            | 3(3,0)              |
| 2                         |                       | Group Theory-I                   | MTH-521            | 3(3,0)              |
| 3                         |                       | Topology –I                      | MTH-522            | 3(3,0)              |
| 4                         |                       | Complex Analysis-I               | MTH-524            | 3(3,0)              |
| 5                         |                       | Introduction to IT               |                    | 3(3,0)              |
| 6                         |                       | Functional English-I             | ENG-510            | 2(2,0)              |
| <b>Total Credit Hours</b> |                       |                                  |                    | <b>17</b>           |
| <b>S.NO</b>               | <b>SEMESTER</b>       | <b>COURSE TITLE</b>              | <b>COURSE CODE</b> | <b>CREDIT HOURS</b> |
| 1                         | <b>2<sup>nd</sup></b> | Functional English-II            | ENG-520            | 2(2,0)              |
| 2                         |                       | Real Analysis-II                 | MTH-515            | 3(3,0)              |
| 3                         |                       | Topology-II                      | MTH-523            | 3(3,0)              |
| 4                         |                       | Complex Analysis-II              | MTH-525            | 3(3,0)              |
| 5                         |                       | Linear Algebra                   | MTH-526            | 3(3,0)              |
| 6                         |                       | Numeric and Symbolic Computation | MTH-527            | 3(3,0)              |
| <b>Total Credit Hours</b> |                       |                                  |                    | <b>17</b>           |

| <b><u>YEAR-2</u></b>      |                       |                                       |                             |                     |
|---------------------------|-----------------------|---------------------------------------|-----------------------------|---------------------|
| <b>S.NO</b>               | <b>SEMESTER</b>       | <b>COURSE TITLE</b>                   | <b>COURSE CODE</b>          | <b>CREDIT HOURS</b> |
| 1                         | <b>3<sup>rd</sup></b> | Numerical Analysis-I                  | MTH-611                     | 3(3,0)              |
| 2                         |                       | Ordinary Differential Equations       | MTH-614                     | 4(4,0)              |
| 3                         |                       | Rings and Fields                      | MTH-619                     | 3(3,0)              |
| 4                         |                       | Functional Analysis –I                | MTH-621                     | 3(3,0)              |
| 5                         |                       | Measure Theory –I                     | MTH-623                     | 3(3,0)              |
| 6                         |                       | Project / optional courses            | MTH-699/<br>Optional Course | 3(3,0)              |
| <b>Total Credit Hours</b> |                       |                                       |                             | <b>19</b>           |
| <b>S.NO</b>               | <b>SEMESTER</b>       | <b>COURSE TITLE</b>                   | <b>COURSE CODE</b>          | <b>CREDIT HOURS</b> |
| 1                         | <b>4<sup>th</sup></b> | Numerical Analysis-II                 | MTH-612                     | 3(3,0)              |
| 2                         |                       | Partial Differential Equations(PDE's) | MTH-615                     | 4(4,0)              |
| 3                         |                       | Group Theory-II                       | MTH-620                     | 3(3,0)              |
| 4                         |                       | Functional Analysis –II               | MTH-622                     | 3(3,0)              |
| 5                         |                       | Measure Theory –II                    | MTH-624                     | 3(3,0)              |

|   |  |                           |                           |           |
|---|--|---------------------------|---------------------------|-----------|
| 6 |  | Project / optional course | MTH-699 <sup>✓</sup>      | 3(3,0)    |
|   |  |                           | <b>Total Credit Hours</b> | <b>19</b> |