



**Mutah University**  
**College of Graduate Studies**

**Master's Degree in (Mathematics)**  
**Comprehensive Track**

**Comprehensive Track: The total credit hours required for graduation are 33 credit hours, distributed as follows:**

| <b>A:<br/>Specialization<br/>Requirements<br/>Compulsory<br/>Credit Hours<br/>(24)</b> | <b>Course Code</b> | <b>Course Title</b>                       | <b>Credit Hours</b> | <b>Prerequisite</b> |
|--|--------------------|---|---------------------|---------------------|
|  | 0301701            | Ordinary Differential Equation Theory (1) | 3                   | -                   |
|  | 0301703            | Partial Differential Equations            | 3                   | -                   |
|  | 0301711            | Integral and Measure Theory (1)           | 3                   | -                   |
|  | 0301712            | Functional Analysis                       | 3                   | -                   |
|  | 0301713            | Complex Analysis (1)                      | 3                   | -                   |
|  | 0301721            | Numerical Analysis (1)                    | 3                   | -                   |
|  | 0301741            | Algebra (1)                               | 3                   | -                   |
|  | 0301761            | Topology (1)                              | 3                   | -                   |

| <b>B: Elective<br/>Major<br/>Requirements<br/>Credit Hours<br/>(9)</b> | <b>Course Code</b> | <b>Course Title</b>                      | <b>Credit Hours</b> | <b>Prerequisite</b> |
|--|--------------------|--|---------------------|---------------------|
|  | 0301709            | Special Topics in differential Equations | 3                   | 0301701             |
|  | 0301713            | Complex Analysis (2)                     | 3                   | -                   |
|  | 0301729            | Special Topics in Numerical Analysis     | 3                   | 0301721             |
|  | 0301731            | Mathematical Statistics (1)              | 3                   | -                   |
|  | 0301733            | Probability Theory                       | 3                   | -                   |
|  | 0301742            | Algebra (2)                              | 3                   | 0301741             |
|  | 0301749            | Special Topics in Algebra                | 3                   | 0301741             |
|  | 0301769            | Special Topics in Topology               | 3                   | -                   |
|  | 0301775            | Approximation Theory                     | 3                   | -                   |
| 0301776  | Graph theory       | 3  | -                   |                     |

| <b>C: College<br/>Compulsory</b> | <b>Course Code</b> | <b>Course Title</b>     | <b>Credit Hours</b> | <b>Prerequisite</b> |
|----------------------------------|--------------------|-------------------------|---------------------|---------------------|
|                                  | .....              | Continuous Registration | 0                   |                     |
|                                  |                    | Comprehensive Exam      | 0                   |                     |