

# MATHEMATICS

## Semester I

| Paper Code                          | Title                       | Contact Hrs. |          | Credit    |
|-------------------------------------|-----------------------------|--------------|----------|-----------|
|                                     |                             | Per semester | Per week |           |
| MAT 101                             | Linear and Abstract Algebra | 60           | 4        | 4         |
| MAT 102                             | Differential Calculus       | 60           | 4        | 4         |
|                                     | Tutorial                    | 30           | 2        | -         |
| <b>Total Credits for Semester I</b> |                             |              |          | <b>08</b> |

## Semester II

| Paper Code                           | Title                        | Contact Hrs. |          | Credit    |
|--------------------------------------|------------------------------|--------------|----------|-----------|
|                                      |                              | Per semester | Per week |           |
| MAT 201                              | Integral and Vector Calculus | 60           | 4        | 4         |
| MAT 202                              | Analytical Geometry          | 60           | 4        | 4         |
|                                      | Tutorial                     | 30           | 2        | -         |
| <b>Total Credits for Semester II</b> |                              |              |          | <b>08</b> |

## Semester III

| Paper Code                            | Title                  | Contact Hrs. |          | Credit    |
|---------------------------------------|------------------------|--------------|----------|-----------|
|                                       |                        | Per semester | Per week |           |
| MAT 301                               | Real Analysis          | 60           | 4        | 4         |
| MAT 302                               | Differential Equations | 60           | 4        | 4         |
|                                       | Tutorial               | 30           | 2        | -         |
| <b>Total Credits for Semester III</b> |                        |              |          | <b>08</b> |

## Semester IV

| Paper Code                           | Title                | Contact Hrs. |          | Credit    |
|--------------------------------------|----------------------|--------------|----------|-----------|
|                                      |                      | Per semester | Per week |           |
| MAT 401                              | Mechanics            | 60           | 4        | 4         |
| MAT 402                              | Discrete Mathematics | 60           | 4        | 4         |
|                                      | Tutorial             | 30           | 2        | -         |
| <b>Total Credits for Semester IV</b> |                      |              |          | <b>08</b> |

## Semester V

| Paper Code | Title | Contact Hrs. | Credit |
|------------|-------|--------------|--------|
|------------|-------|--------------|--------|

|                                     |                    | <b>Per semester</b> | <b>Per week</b> |           |
|-------------------------------------|--------------------|---------------------|-----------------|-----------|
| MAT 501                             | Numerical Analysis | 60                  | 4               | 4         |
| MAT 502                             | Operation Research | 60                  | 4               | 4         |
|                                     | Tutorial           | 30                  | 2               | -         |
| <b>Total Credits for Semester V</b> |                    |                     |                 | <b>08</b> |

### Semester VI

| Paper Code                           | Title            | Contact Hrs. |          | Credit    |
|--------------------------------------|------------------|--------------|----------|-----------|
|                                      |                  | Per semester | Per week |           |
| MAT 601                              | Complex Analysis | 60           | 4        | 4         |
| MAT 602                              | Dissertation     | 30           | 2        | 2         |
| MAT 603                              | Practical        | 30           | 2        | 2         |
|                                      | Tutorial         | 30           | 2        | -         |
| <b>Total Credits for Semester VI</b> |                  |              |          | <b>08</b> |
| <b>Total Credits</b>                 |                  |              |          | <b>48</b> |