Course Number and Name

BMA301 & Mathematics - III

Credits and Contact Hours

4 & 75

Course Coordinator's Name

Mrs.Subhashini

Course Objectives

To equip students with adequate knowledge of Mathematics to formulate problems in Engineering, and solve them analytically

| Prerequisites | Co-requisites | | | | | |
|---|---------------|--|--|--|--|--|
| Maths I & II | Nil | | | | | |
| required, elective, or selected elective (as per Table 5-1) | | | | | | |
| Required | | | | | | |

Course Outcomes (COs)

CO1: Solve PDE of second and higher order with constant coefficients.

CO2: Expand given functions by using the concept of Fourier series.

CO3: Solve many of the Engineering models of Heat equations and Wave equations which are PDEs with boundary conditions.

CO4: Solve many problems in Automobile, Medicine, and Electronic Engineering which are differential equations of linear or non-linear.

CO5: Solve differential equations by Laplace transforms

Student Outcomes (SOs) from Criterion 3 covered by this Course

| CCOs/SOs | a | b | c | d | e | f | g | h | i | j | k | 1 | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|--|
| CO1 | Н | | | | | M | | | | L | | | |
| CO2 | M | | Н | | | | | L | | | M | | |
| CO3 | M | | | Н | | | | | | | | | |
| CO4 | M | | | | | | M | | | Н | | L | |
| CO5 | | | L | | | | | | | | | | |