

Course Name	Mathematics for CSE Stream-I	Semester	1
Course code	BMATS101	Batch	-

Course Outcomes

C101.1	Apply the knowledge of calculus to solve problems related to polar curves and learn the notion of partial differentiation to compute rate of change of multivariate functions.
C101.2	Analyze the solution of linear and nonlinear ordinary differential equations.
C101.3	Get acquainted and to apply modular arithmetic to computer algorithms.
C101.4	Make use of matrix theory for solving for system of linear equations and compute eigenvalues and eigenvectors.
C101.5	Familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/PYTHON/ SCILAB

Course Name	Mathematics-I for Electrical & Electronics Engineering Stream	Semester	1
Course code	BMATE101	Batch	-

Course Outcomes

C101.1	Apply the knowledge of calculus to solve problems related to polar curves and learn the notion of partial differentiation to compute rate of change of multivariate functions.
C101.2	Analyze the solution of linear and nonlinear ordinary differential equations.
C101.3	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing area and volume.
C101.4	Make use of matrix theory for solving for system of linear equations and compute eigenvalues and eigenvectors.
C101.5	Familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/PYTHON/ SCILAB

Course Name	Mathematics-I for Civil Engineering stream	Semester	1
Course code	BMATC101	Batch	-

Course Outcomes

C101.1	apply the knowledge of calculus to solve problems related to polar curves.
C101.2	learn the notion of partial differentiation to compute rate of change of multivariate functions.
C101.3	analyze the solution of linear and nonlinear ordinary differential equations.
C101.4	Make use of matrix theory for solving for system of linear equations and compute eigenvalues and eigenvectors.
C101.5	Familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/PYTHON/ SCILAB

Course Name	Mathematics-I for Mechanical Engineering stream	Semester	1
Course code	BMATM101	Batch	-

Course Outcomes

C101.1	apply the knowledge of calculus to solve problems related to polar curves.
C101.2	learn the notion of partial differentiation to compute rate of change of multivariate functions.
C101.3	analyze the solution of linear and nonlinear ordinary differential equations.
C101.4	Make use of matrix theory for solving for system of linear equations and compute eigenvalues and eigenvectors.
C101.5	Familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/PYTHON/ SCILAB

Course Name	Mathematics for CSE Stream-II	Semester	2
Course code	BMATS201	Batch	-

Course Outcomes

C101.1	Apply the concept of change of order of integration and variables to evaluate multiple integrals and their usage in computing area and volume.
C101.2	Understand the applications of vector calculus refer to solenoidal, and irrotational vectors. Orthogonal curvilinear coordinates.
C101.3	Demonstrate the idea of Linear dependence and independence of sets in the vector space, and linear transformation
C101.4	Apply the knowledge of numerical methods in analysing the discrete data and solving the physical and engineering problems.
C101.5	Get familiarize with modern mathematical tools namely MATHEMATICA/ MATLAB /PYTHON/ SCILAB

Course Name	Mathematics-II for Electrical & Electronics Engineering Stream	Semester	2
Course code	BMATE201	Batch	-

Course Outcomes

C101.1	Understand the applications of vector calculus refer to solenoidal, irrotational vectors, line integral and surface integral.
C101.2	Demonstrate the idea of Linear dependence and independence of sets in the vector space, and linear transformation
C101.3	To understand the concept of Laplace transform and to solve initial value problems.
C101.4	Apply the knowledge of numerical methods in solving physical and engineering phenomena.
C101.5	Get familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/PYTHON/ SCILAB

Course Name	Mathematics-II for Civil Engineering stream	Semester	2
Course code	BMATC201	Batch	-

Course Outcomes

C101.1	Apply the knowledge of multiple integrals to compute area and volume.
C101.2	Understand the applications of vector calculus refer to solenoidal, irrotational vectors, line integral and surface integral.
C101.3	Demonstrate partial differential equations and their solutions for physical interpretations.
C101.4	Apply the knowledge of numerical methods in solving physical and engineering phenomena.
C101.5	Get familiarize with modern mathematical tools namely MATHEMATICA/MATLAB/PYTHON/SCILAB

Course Name	Mathematics-II for Mechanical Engineering stream	Semester	2
Course code	BMATM201	Batch	-

Course Outcomes

C101.1	Apply the knowledge of multiple integrals to compute area and volume.
C101.2	Understand the applications of vector calculus refer to solenoidal, irrotational vectors, line integral and surface integral.
C101.3	Demonstrate partial differential equations and their solutions for physical interpretations.
C101.4	Apply the knowledge of numerical methods in solving physical and engineering phenomena.
C101.5	Get familiarize with modern mathematical tools namely Mathematica/MatLab/Python/Scilab