

DEPARTMENT OF MATHEMATICS

PROGRAM OBJECTIVE (Pos):

- PO1: To acquaint students with the basic concepts, fundamental principles and theories of science related to various phenomena and their relevance in the day to day life.
- PO2: To enable the students to analyze the scientific data critically and systematically and to think creatively to propose novel ideas.
- PO3: To give learners scientific outlook not only with respect to the science subjects but also in all aspects of life.
- PO4: To enable student to apply ethical, moral and social values in personal and social life.
- PO5: To acquaint students to develop flair by participating in various social activities in order to spread knowledge and to create awareness about the social evils.

PROGRAM SPECIFIC OUTCOME (PSOs):

- PSO1: Demonstrate basic manipulative skills in algebra, geometry, trigonometry, calculus etc.
- PSO2: Apply the underlying structures of mathematics (i.e. sets, relation & function, logical structure etc.) and the relationship among them.
- PSO3: Demonstrate proficiency in establishing validity of mathematical theories.
- PSO4: Investigate and apply mathematical problems and solutions in a variety of contexts related to science, technology, business and industry and illustrate these solutions using symbolic, numeric or graphical method.
- PSO5: Educate students about the use of computer programming in solving mathematical problems.

COURSE OUTCOME (Cos):

- CO1: Familiarize the students with the basic concepts of Algebraic structures and trigonometry.
- CO2: Acquaints the students with differentiation, integration and there uses in solving problems.
- CO3: Gives the learners ideas of two-dimensional and three-dimensional co-ordinate geometry.
- CO4: Enables the students in solving ordinary and partial differential equations of one and higher degree.
- CO5: Equipped the students to understand abstract algebra, mainly various properties of groups and rings.

- C06: Enables the students to know about linear algebra and vector.
- C07: Familiarize the students with the basic concepts of real analysis.
- C08: Helps the students in understanding statics and particle dynamics.
- C09: Acquaints the students with the study of real and complex analysis.
- C010: Introduce topological and metric spaces to students.
- C011: Gives the students ideas of motion of heavenly bodies.
- C012: Enables the students in solving various problems related to motion of a rigid body.
- C013: Acquaints the students with the basic concepts of probability.
- C014: Equipped the students to understand linear programming problem and find optimum solution.
- C015: Present properties of fluids at rest and floating bodies to the students.
- C016: Familiarize the students with numerical interpolation and numerical solution of equations.
- C017: Acquaints the students with the use of computer programming in solving mathematical problems.
- C018: Gives the students the fundamental ideas of number theory, mathematical logic and Boolean algebra.
- C019: Enables the students in understanding the concept of graph theory and combinatorics.
- C020: Equipped the students to identify and formulate research problem, to analysis and interpret data and to draw valid conclusion in a systematic way.

Attainment of Pos, PSOs and COs are evaluated by the college through procedures laid down by the affiliating university.

Assessment

- Sessional examination.
- Mid Semester and End Semester Examination.
- Home Assignment.
- Project Work.
- Group Discussion
- Seminars and Presentation
- Viva-voce