

Department of Mathematics

PROGRAM OUTCOMES

Students taking admission to the program of B.Sc. are expected to get equipped with following :

1. Explaining the basic scientific principles and methods.
2. Inculcate scientific thinking and awareness among the student.
3. Ability to communicate with others in regional language and in English.
4. Ability to handle the unexpected situation by critically analyzing the problem.
5. Understanding the issues related to nature and environmental contexts and sustainable development.
6. Effectively utilizing their knowledge of computing principles and mathematical theory to develop sustainable solutions to current and future computing problems.
7. Communicate mathematical ideas both orally and in writing.
8. Investigate and solve unfamiliar math problems
9. Demonstrate the proficiency in writing proofs

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Course Outcomes

Differential and integral calculus

1. Calculate the length of an arc.
2. Evaluate the area of surface of revolution.
3. Obtain equation for surface and curve in 3 dimension.

O.D.E & P.D.E

1. Explain meaning of solution of D.E.
2. Solve exact D.E.
3. Solve Cauchy- Euler equation.
4. Formulate physical problem as PDE.
5. Interpret solution in a physical context .
6. To physically interpret solution.

Real analysis

1. Describe the fundamental property of the real no.
2. Demonstrate skill in communicating mathe.
3. Demonstrate and understanding of the theory of sequence and series.

Algebra

1. Multiply out bracket.
2. Simplify some formule.
3. Solve simple linear equation.

Number Theory

1. Express the basic property of gcd.
2. Solve linear Diophantine equation.
3. Solve linear congruent

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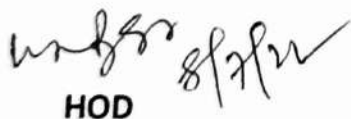


Linear algebra

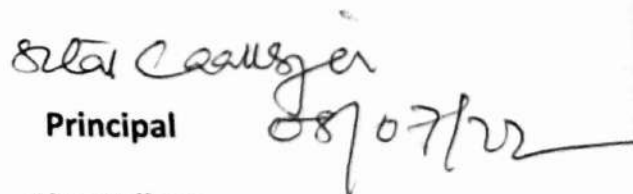
1. Recognize the concept of term span and LD, LI, basis.
2. Use matrix algebra to L.T.
3. Compute and use eigenvector and eigen value.

Complex analysis and vector analysis.

1. Prove basic result in complex analysis.
2. Demonstrate understanding and appreciation of deeper aspect of complex analysis.
3. Demonstrate skill in communication math orally and in writing


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