

Learning Outcome

Department of Mathematics

The students will be able –

1. To understand different kind of Differential Calculus of a single and several variables with sequences, series (finite and infinite), the differentiation of functions.
2. To apply Classical, Abstract and Linear Algebra to the solution of algebraic linear, non-linear and equations.
3. To create a skill of analytical geometry of 2 and 3 Dimensions & the different types of coordinate systems.
4. To analyze vector as a mathematic tool, linear programming and Game Theory.
5. To understand Integral Calculus and definite and improper integrals and special functions.
6. To differentiate Ordinary and Partial Differential Equations and the theory of Integral Transforms, Riemann Integration.
7. To understand and apply the theory of Probability and Statistics, Group Theory, Analytical Dynamics, Hydrostatics, Ring Theory, Mechanics.
8. To apply Analytical Statics to studies of rigid bodies in equilibrium under coplanar and non-coplanar force systems.
9. To analysis and synthesis the knowledge of Metric space and complex analysis.
10. To apply different kind of Numerical Method significantly.
11. To create a skill of C Programming Language, Mathematical Logic, Object Oriented Programming in C++, Scientific computing with Sage Math/Mathematical and MATLAB.