



**K.L.E. Society's**  
**BASAVAPRABHU KORE ARTS, SCIENCE AND COMMERCE**  
**COLLEGE, CHIKODI – 591 201.**

(Accredited at 'A' with 3.26 CGPA in 3<sup>rd</sup> Cycle of A & A)

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**DEPARTMENT OF MATHEMATICS**

**LEARNING OUT COMES**

- LO<sub>1</sub> Students will understand the concepts of limits and continuity, derivatives, higher order derivatives and its applications.
- LO<sub>2</sub> They understand the mean value theorems and develop the skills in solving problems related to theorems.
- LO<sub>3</sub> Understand the concept of evaluation of definite integrals by using reduction formulae and able to find the areas and volumes.
- LO<sub>4</sub> They understand the properties of matrices, expansion of fourth order determinants, method of finding rank of given matrix and also understand concepts of sets, groups, rings and postulates of real numbers.
- LO<sub>5</sub> Understand the concepts of sphere, cone and its applications.
- LO<sub>6</sub> Understand the concepts of differential equations and improving the skill of solve homogeneous, non homogeneous, linear, Bernoulli's, exact, simultaneous and partial differential equations.
- LO<sub>7</sub> Understand the concept scalar and vectors and method of finding the derivatives of vector function.
- LO<sub>8</sub> Develop skills in solving transcendental equations, finding derivatives and definite integrals by numerical methods.
- LO<sub>9</sub> Students will be able to solve different types of examples on Laplace and Fourier series.
- LO<sub>10</sub> Able to understand the functions of complex variable and understand Cauchy's theorems and develop the skills in solving problems related to Cauchy's theorems.