

### About Eshan College of Engineering

Located at Agra Mathura Highway, Eshan College was established in 2009 with a lush green campus over 11.52 acres. It serves those students who are interested to pursue their careers in Engineering. It was established with the aim to constantly develop the excellence of education, raise the aptitude of our students, to facilitate & embark upon a successful career. It not just caters the academic excellence but also empowers its students with immense exposure, qualified pedagogy, excursions, competitions, internships, live projects, and extracurricular activities. It believes in the holistic development of its students rather than one-dimensional development.

### About the Workshop

This calculus workshop contains a comprehensive review of derivatives, the product, quotient and chain rules, differentiation of functions, integration by parts and substitution, as well as partial fractions. To spread the awareness of use of calculus in solving engineering problems across students of all departments of the institute, ASH department of Eshan College of Engineering is planned to organize workshop "Applications of Calculus in Engineering

(Research Methodology)" on 16/11/2019. The speaker for the workshop is Dr. Shailendra Kumar, AP, ASH. In this workshop, speakers will give briefs on:

1. Basic functions & its derivations from applying in engineering point of view
2. Product rule, quotient rule and chain rule for differentiation
3. Linearity in differentiation
4. Valuating definite integrals, integration by parts and integration by substitution (with the basics of applications in engineering).

### Key points of Workshop:

1. Use of graphs to find the solution to engineering problems
2. Use of graphs to represent variables in engineering systems
3. Use of differentiation and integration to determine the rate of change in engineering systems and to identify turning points, maximum, minimum and optimum values

## Workshop

on

## "Applications of Calculus in Engineering" (Research Methodology)

16/11/2019



### Organizers:

Department of Applied Sciences & Humanities  
Eshan College of Engineering, Farah,  
Mathura

### Patron

Dr. Ghanshyam Srivastava  
Director, Eshan College of Engineering,  
Farah, Mathura

