

# Course: Engineering Mathematics - I

**Course Code:** noc20-ma37

**Session:** 2020-21

**Duration:** 12 Weeks

**Assessment procedures:** Weekly Assignment (25%) + proctored certification Exam (75%)

## Curriculum of the Course:

**Week 1:** Differential Calculus - Functions of One Variable

**Week 2:** Partial Derivatives

**Week 3:** Total Differential and Differentiability

**Week 4:** Taylor's Expansion of Functions. Maxima and Minima

**Week 5:** Improper Integrals

**Week 6:** Double Integrals

**Week 7:** Multiple Integrals & their applications

**Week 8:** System of Linear Equations - Gauss Elimination. Vector Spaces

**Week 9:** Linear Transformations

**Week 10:** Eigenvalues and Eigenvectors, Diagonalization

**Week 11:** First Order Differential Equations

**Week 12:** Higher Order Differential Equations with Constant Coefficientss

## List of students enrolled

S. No	Name of Student
1	Vishnu Gupta
2	Aditya Sharma
3	Asit Jain
4	Avinash Singh
5	Nishkarsh Goyal
6	Gaurav Kumar Khandelwal
7	Lokesh Mali
8	Manju Choudhary
9	Mohit Jain
10	Naman Kumar Jain
11	Prashu Jain

12	Nagendra Singh
13	Raju Sharma
14	Ritik Khandelwal
15	Rohit Khatri
16	Rohit Jain
17	Sangeeta Sharma
18	Siddharth Darji
19	Sourabh Kumawat
20	Tanish Khandal
21	Poorvaja Verma
22	Shivam Sharma

•