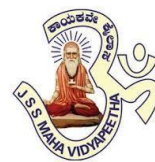




**JSS Mahavidyapeetha**  
**JSS Academy of Technical Education, Noida**  
**Department of Mathematics**



### **Innovations by the Faculty in Teaching and Learning**

Keeping in mind the student's point of view, teaching and learning process is based on active classroom teaching that includes imparting knowledge, discussions about the concerned topics, its scope and applications related to various technological fields. This results in setting the tone of the class. During online teaching, the use of pen-tablet proved to be very beneficial in understanding and visualizing the subject content in a better way. For posting self-recorded video, self-lecture notes, important application-based questions, assignments, quizzes, tutorials and important lectures by distinguished professors, the platform of Google Classroom is used. To make learning process interesting the student groups are formed in which a few problems in the form of quizzes, tutorials are circulated for developing their higher order thinking skills through discussions, team work, inquiry and critical thinking. The problem-based learning tests students about their skills and knowledge of that particular topic. Students are given chance for an open-ended question that results in handling their queries and this practice helps to know that how much students understood the concerned topic.

**The following faculties have undergone courses through MOOCS:**

<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>MOOCs Course (NPTEL/Coursera/Any Other)</b>	<b>Date of Certification</b>
1	Dr. Bhupender Parashar, Associate Prof & Head	NPTEL - Business Statistics	Jan-April, 2019
2	Dr. Bhupender Parashar, Associate Prof & Head	NPTEL - Operations Research	September, 2019
3	Dr. Bhupender Parashar, Associate Prof & Head	NPTEL - Probability & Statistics	Jan-Feb, 2020

4	Dr. Bhupender Parashar, Associate Prof & Head	Coursera - Vector Calculus for Engineers	July, 2020
5	Dr. Bhupender Parashar, Associate Prof & Head	Coursera - Matrix Algebra for Engineers	July, 2020
6	Dr. Bhupender Parashar, Associate Prof & Head	Coursera - Introduction to Ordinary Differential Equations	August, 2020
7	Dr. Bhupender Parashar, Associate Prof & Head	Coursera - Introduction to Calculus	August, 2020
8	Dr. Bhupender Parashar, Associate Prof & Head	Coursera - Data Science Maths Skills	July, 2021
9	Dr Anushri Verma (Assistant Professor)	NPTEL-Multivariable Calculus	Jan-April-2018
10	Dr Anushri Verma (Assistant Professor)	NPTEL-Transform Calculus and its application in differential equation	Jan-April-2020
11	Dr Shalini Singh (Assistant Professor)	NPTEL-Multivariable Calculus	Jan-April-2018
12	Dr. Shalini Singh (Assistant Professor)	NPTEL-Mathematical Methods and its Application	Jan-April-2019
13	Dr Shalini Singh (Assistant Professor)	NPTEL-Transform Calculus and its application in differential equation	Jan-April-2020
14	Dr. Vinita Khemchandani, (Assistant Professor)	NPTEL-Multivariable Calculus	Jan-April-2018
15	Dr. Vinita Khemchandani, (Assistant Professor)	NPTEL-Mathematical Methods and its Application	Jan-April-2019
16	Dr. Vinita Khemchandani, (Assistant Professor)	NPTEL-Transform Calculus and its application in differential equation	Jan-April-2020

17	Dr. Vinita Khemchandani, (Assistant Professor)	Coursera- Vector Calculus for Engineers	November-2020
18	Dr. Vinita Khemchandani, (Assistant Professor)	Coursera -Matrix Algebra for Engineers	Janurary2021
19	Dr. Vinita Khemchandani, (Assistant Professor)	Coursera -“Introduction to Artificial Intelligence (AI)”	November-2022
20	Dr Nikunj Agarwal (Assistant Professor)	NPTEL-Discrete Mathematics	Jan-April-2019
21	Dr Nikunj Agarwal (Assistant Professor)	SWYAM-Fundamental of Outcome Based Curriculum in Engineering Education	May 2019
22	Dr. Ranu Pandey, Assistant Professor)	Coursera (Matrix Algebra for Engineers)	08-01-2021
23	Dr. Ranu Pandey, Assistant Professor)	Coursera (Vector Calculus for Engineers)	14-07-2020
24	Dr. Ranu Pandey, Assistant Professor)	NPTEL (Transform Calculus)	Jan-April 2020
25	Dr. Ranu Pandey, Assistant Professor)	NPTEL (Multivariable Calculus)	Jan-April 2019
26	Mr Mohit Kumar (Assistant Professor)	NPTEL (Basic Linear Algebra)	Jan-April 2024