HUTUTMA RAJGURU MAHAVIDYALAYA, RAJGURUNAGAR

TAL-KHED, DIST-PUNE 410 505

DEPARTMENT OF MATHEMATICS AND STATISTICS

BRIEF REPORT OF GUEST LECTURE

Sr. No.	Particulars	Details
1	Date	14/10/2023
2	Name of the event	Guest Lecture
3	Duration of the programme	1 Day
4	Venue	Hutatma Rajguru Mahavidyalaya, Rajgurunagar
5	Name of coordinator	Prof. R. M. Wayal
6	Number of Participants	20
7	Activity belongs to which criteria	Criteria II
8	Curricular/Co-Curricular/Extra-Curricular	Co-Curricular

Department of Mathematics and Statistics organized a guest lecture of Prof. S. N. Karle, Siddhant Engineering College, Sudumbare, on the applications of mathematics in engineering for F.Y.B.Sc. and S.Y.B.Sc. students on October 14, 2023. The lecture aimed to bridge the gap between theoretical mathematics and its practical implications in the field of engineering. The lecture commenced with an overview of fundamental mathematical concepts commonly employed in engineering disciplines, including calculus, linear algebra, differential equations, and probability theory.

Prof. S. N. Karle elaborated on how calculus is used to analyze rates of change, optimization problems, and the modeling of dynamic systems. Examples from mechanical engineering, such as motion analysis and stress calculations, were discussed to illustrate these concepts. The application of linear algebra in solving systems of equations, matrix transformations, and eigenvalue analysis was explored. The importance of linear algebra in computer graphics, signal processing, and structural analysis was highlighted. He explained the significance of differential equations in modeling dynamic systems, such as electrical circuits, mechanical vibrations, and fluid dynamics. Real-world examples were provided to demonstrate how differential equations are formulated and solved in engineering problems.

Lecture concluded with an overview of probability theory and statistical methods used in engineering applications, including reliability analysis, quality control, and risk assessment. Prof. Karle emphasized the role of probability distributions, hypothesis testing, and regression analysis in making informed engineering decisions. Following the lecture, an interactive session was conducted where students had the opportunity to ask questions and engage in discussions with Prof. Karle. Several queries were raised regarding specific engineering applications of mathematical concepts, and Dr. [Name] provided insightful explanations to address them.

The guest lecture on the applications of mathematics in engineering proved to be highly informative and enriching for the students of F.Y.B.Sc and S.Y.B.Sc in the Department of Mathematics and Statistics. The practical insights shared by Dr. [Name] helped students better appreciate the relevance of mathematical principles in solving real-world engineering problems. Overall, the lecture served as a valuable platform for students to enhance their understanding of the symbiotic relationship between mathematics and engineering, fostering a deeper appreciation for the interdisciplinary nature of these fields.

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Sr. No.	Name	Class	Sign
1	Bhambure Rasika Rajendra	F.Y.Bsc	RRBhambure
2	Sable Vaishnavi Sunil	F.Y.B.sc	Sun
3	Pawar Samiksha Prakash	F.Y.Bsc	Samiksha
4	Darawade Apurva Ganesh	F.Y.Bsc	Adarawade
5	sakshi shantaram Hale	F.Y.Bsc	sakshH
6	Payal lahu Kale	F.Y.BSC	Kale
7	Shreya Gurudev Kantikar	F.Y.BSC	Kantikar
8	Sharvari Shantaram khese	F.Y.BSC	Skhese
9	Gaurvi Goraksh Ghevade	F.Y.BSC	Gaurav
10	Pranav Bhausao Mutkule	F.Y.BSC	Mutka
11	Daundkar Dnyaneshwari Sanjay	S.Y.B.Sc	hysaket
12	Mohan Asmita Sandip	S.Y.B.Sc	Bandhay
13	Sen Vishakha Rajkumar	SY BSC	Vsen
14	Gongawane Isha santosh	SY BSc	Bongawane
15	Shinde Jayshree Manohar	S.Y.BSc	Jayshu
16	Shaikh Sonam Imtiyaj	S.Y.B.Sc	Sonu
17	Sable Rutuja Bhagwan	-II-	Present
18	Kale Urushali Dipak	-II-	Present
19	Pable Roshan Anil	-II-	Present
20	Waghole Dnyanesh S.	-II-	Present

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