



Sandip Foundation's
Sandip Institute of Technology & Research Centre,
Mahiravani, Trimbak Road, Nashik - 422 213



**Department of Engineering Sciences and
Humanities**

Date: - 21 /08/2023

NOTICE

All students of the F.Y.B.Tech are hereby informed that the department of Engineering Sciences and Humanities has organized the Seminar on “Application of Mathematics in Engineering” on Date 25 August 2023 From 11:00 am to 12:00 noon .

The Seminar aims to Illustrate Mathematical Concepts, To Enhance Problem-Solving Skills. It is compulsory for all students to attend the Seminar.

Prof. A.A.Minde
Event Coordinator

Prof. J.M.Shah
Head of Dept



Sandip Institute of Technology and Research Centre

At &Po- Mahiravani, Trimbak Road Tal & Dist-Nashik

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(Approved by-AICTE, New Delhi,& Govt.of Maharashtra and Permanently Affiliated to Savitribai Phule University (Formerly Pune University),Pune.

Accredited with "A" grade byNAAC with CGPA Score of 3.11

NBA Accredited for Computer &Mechanical Engineering (UG Course)

w.e.f 2023-24 to2025-26



SANDIP
FOUNDATION



Activity Report of Application of Mathematics in Engineering A.Y. 2023-24



SANDIP
FOUNDATION

(An autonomous institute permanently affiliated to Savitribai Phule Pune University, Pune)

Organized By

Sandip Foundation's
Department of Engineering Sciences and Humanities
Sandip Institute of Technology and Research Centre, Nashik

Date : 25th August 2023

Name of Event : Application of Mathematics in Engg.

Resource Person: Prof (Dr.) Renu Pathak

Event Coordinator: Assistant Prof. Atul A. Minde

Participants: F.Y.B.Tech students (ESH Department)

No. of Participants: 240

Aim: The aim of this activity is to demonstrate the practical applications of mathematics in engineering, highlighting its importance in solving real-world engineering problems. By engaging in various hands-on activities and simulations, the goal is to enhance students' understanding of mathematical concepts and their relevance in the field of engineering

Objective:

- **To Illustrate Mathematical Concepts:** Utilize practical examples to illustrate mathematical concepts such as calculus, algebra, geometry, and statistics, emphasizing their relevance in engineering calculations and designs.
- : Develop problem-solving skills by applying mathematical techniques to engineering problems, encouraging students to analyze, strategize, and optimize solutions.
- **To Foster Interdisciplinary Learning:** Promote interdisciplinary learning by integrating mathematics with engineering principles, enabling students to appreciate the interconnectedness of different fields of study.
- **To Encourage Critical Thinking:** Encourage critical thinking and analytical reasoning through the application of mathematical models, simulations, and experiments in engineering contexts.
- **To Improve Communication Skills:** Enhance students' ability to communicate complex engineering concepts and solutions effectively, emphasizing the importance of clear and concise mathematical representation in engineering reports and presentations.

Outcomes:

- **Simulation Exercises:** Engaged students in simulation exercises using software tools to solve engineering problems involving fluid dynamics, structural analysis, and electrical circuits. Outcome: Enhanced problem-solving skills and familiarity with simulation techniques.
- **Collaborative Projects:** Assigned interdisciplinary projects where engineering students collaborated with mathematics majors. Outcome: Encouraged teamwork and exposed students to diverse perspectives, fostering a holistic approach to problem-solving.
- **Case Studies:** Analyzed case studies of engineering failures and successes, emphasizing the role of mathematical analysis in identifying root causes and designing effective solutions. Outcome: Improved critical thinking skills and awareness of the consequences of mathematical inaccuracies in engineering applications.

•**Interactive Workshops:** Conducted interactive workshops where students solved engineering problems in real-time, encouraging active participation and immediate application of mathematical concepts. Outcome: Enhanced students' confidence in applying mathematics to engineering challenges.

Summary of Program:

Through these activities, students gained a deeper understanding of the vital role mathematics plays in engineering. They developed improved problem-solving skills, enhanced their critical thinking abilities, and learned to appreciate the interdisciplinary nature of modern engineering. Moreover, the hands-on approach and real-world examples significantly contributed to achieving the objectives of the activity, preparing students for future engineering challenges in the professional arena.

Photographs



Felicitation of Dr. Renu pathak Ma'am



Prof. (Dr.) R.P.Pathak Ma'am explaining the concept of mathematics in Engineering



Beneficiary Students of F.Y.B.Tech

**Assitant Prof. A.A.Minde
Event Coordinator**

**Prof. J. M. Shah
HOD, ESH**

**Prof. (Dr.) M.M.Patil
Principal SITRC**



Sandip Foundation's

Sandip Institute of Technology & Research Centre, Nashik

Department of Engineering Sciences & Humanities

Foundation Course (FE, B.Tech) AY 2023-24

Attendance Sheet

Activity - Application of Maths by Dr. Renu Pathak

Date- 25th Aug. 23

Time 11:00 am to 12:00 noon

Sr. No.	Name of Students	Branch	Sign
1	Vasbada Kailas Kothawade	AIDS	
2	Rishita Pandit	Automation & R	
3	Bhusari Ganika Gachin	computer	
4	Tanhai Jayant Chaudhari	AIDS	
5	Gayatri Vijay Gangurde	AIDS	
6	Potre Sakshi Kashinath	IT	
7	Tanishq Gungul	IT	
8	Ashish Kumar Shrivastava	Computer	
9	Krishna Anil Tathe	AI & DS	
10	Ritesh. Suresh. Jadhav.	AIDS.	
11	Shinde Samir Dnyaneshwar	AIDS	
12	Bhumika Pramod Jadhav	Computer	
13	Tejaswini Yogendra Shirsath	CS	
14	Gharda Pradeep Bawiskar	CS	
15	Kalyani Subhash Patil	IT	
16	Riya Kailash Nhavkar	AIDS	
17	Gauti Shivling Surange	CS	
18	Shreyu Sheikant Shewale	CS.	
19	Vaishnavi Sunil Thapetakar	CS	
20	Uphade Rohini Mangesh	CS	
21	Sakshi Chatur Patil	AIDS	
22	Nandini Samadhan Patil	AIDS	

Sr. No.	Name of Students	Branch	Sign
23	Tanuja Narayan Chaudhari	AIDS	Chaudhari
24	Pooja Pandharinath Satpute	C.S	Pooja
25	Bhumnika Eknath Bhalikar	C.S.	Bhalikar
26	Pratiksha Halde	C.S	Halde
27	Shruti Waghmade	C.S	Waghmade
28	Manek Bala	C.S	manek
29	Vedant Sanjay Rokode	AIDS	Rokode
30	Khemnar Shivam Dnyaneshwar	AIDS	Khemnar
31	Hindavi Ganesh Bankar	IT	Hindavi
32	Urmila Uttam & Ghare	C.S	Urmila
33	Disha Bhausaheb Gangurde	C.S	Disha
34	Himani Kishor Mane	I.T	Himani
35	Mayuri vijay Nikam	C.S	Mayuri
36	Shekavati Milind Hire	AIDS	Shekavati
37	Kanse Sandhya Subhash	AIDS	Kanse
38	Kanse Sonakshi sopan	CS	Kanse
39	Gargie Pankaj Dharmadhikari	CS	Gargie
40	Shraddha Yogesh Lagad	IT	Shraddha
41	Bhushan Valmik chueye	Computer	Bhushan
42	Shreyash K. Sawant	Computer	Shreyash
43	Murkute oimkar sudam	C.S	Murkute
44	Harshada Tukaram patil	C.S	Harshada
45	Sakshi Gajanan Pawar	CS	Sakshi
46	Snehal Nandkishor Garvas	IT	Snehal
47	Shraddha Nandan Dalvi	IT	Shraddha
48	Vedant Sandip Vataxe	C.S	Vedant
49	Aditya Rahul Narichede	C.S	Aditya
50	Aniket Amarjit Singh	AIDS	Aniket
51	Prem Namdeo Kanade	CS	Prem
52	Gaurav Parasram Maluysa	C.S	Gaurav
53	Lalit shantaram Patil	C.S	Lalit

No.	Name of Students	Branch	Sign
54	Hari Mahender Darade	CS	<u>Hari</u>
55	Ashirwad Anurag Sharma	CS	<u>Ashirwad</u>
56	Rupesh Korli	AIDS	<u>Rupesh</u>
57	Sachin Vijay Chavan	CS	<u>Sachin</u>
58	Yash Pable	C.S	<u>Yash</u>
59	Bhavesh Bindu Megha	C.S	<u>Bhavesh</u>
60	Samruddhi Baliram Sonawane	IT	<u>Samruddhi</u>
61	Ritesh Subhash Jadhav	AIDS	<u>R.S. Jadhav</u>
62)	Gangurde Akash satish	CS	<u>Akash</u>
63)	Om Dipak Dandaghal	CS	<u>Om</u>
64	Lakhsing Narsing Patil	CS	<u>Lakhsing</u>
65	chetan Vinod Devkar	C.S	<u>chetan</u>
66	Ghodechot Sonket Ramesh	Computer	<u>Ramesh</u>
67	Yadav Vishal Anag	comp.	<u>Yadav</u>
68	Jadhav Vishal Tikaram	COMP	<u>Vishal</u>
69	Aditya Sharad Borade	Computer	<u>Aditya</u>
70	Aryan Pradep Yadav	Computer	<u>Aryan</u>
71	Manas Yogesh Jaware	AIDS	<u>M. Jaware</u>
72	Vaishnav Nandu Kusule	AIDS	<u>Vaishnav</u>
73	Jagdish Vinod Mchale	AIDS	<u>Jagdish</u>
74	Vishal shivdas borse	IT	<u>Vishal</u>
75	Nikhil padmakar Niturshakti	IT	<u>Nikhil</u>
75	Shriram Mohan Domal	AIDS	<u>Shriram</u>
76	Spandan Viskarbhushan Nichale	IT	<u>Spandan</u>
77	Vedant Dnyaneshwar Sonawane	IT	<u>Vedant</u>
78	Samath Ramesh Kande	C.S	<u>Samath</u>
79)	Mukesh Ravindra Shirvatekar	AIDS	<u>Mukesh</u>
80)	Omesh Sominath Kuber	AIDS	<u>Omesh</u>
81)	Babul kishanlal Ahir	AIDS	<u>Babul</u>
82)	Hareshwar Namdev Wagh	I.T	<u>Hareshwar</u>
83)	Bagu Harshal Bharat	computer	<u>Bagu</u>

Sr. No.	Name of Students	Branch	Sign
84	Prashik Bhimrao Bhise	I.T	<u>Bhise</u>
85	Sheavan Sandip Naerawa	I.T	<u>Sheavan</u>
86	Kartik Bhushan Kawale	Computer	<u>KBK</u>
87	Himanshu krushnarao Deshmukh	IT	<u>H</u>
88	Sujal Rajendra Rajput	CS	<u>SR</u>
89	Krishna Vishnu Gite	CS	
90	Rushabh Ravi Bhardwaj	AI-DS	<u>Rushabh</u>
91	Ajay Manoti Tarte	I.T.	<u>Ajay</u>
92	Aarush Vijay patil	I.T	<u>Aarush</u>
93	Pranav Pagare	CS	<u>P</u>
94	Manas Vitendra Bramhankar	AIDS	<u>Manas</u>
95	Prathmesh Kamalakar Patil.	AIDS	<u>Prathmesh</u>
96	Vaibhav Sanjay Ghuge	Computer	<u>Vaibhav</u>
97	Garvit P. Nalughe	IT	<u>Garvit</u>
98	Yash Dharmendra Rathod	Computer	<u>Yash</u>
99	Shreyas Shashikant Ranchoor	CS	<u>Shreyas</u>
100	Om Sunil Kute	CS	<u>Om</u>
101	Rohan Santosh Patil	IT	<u>Rohan</u>
102	Prathamesh Navanath Thoke	CS	<u>Prathamesh</u>
103	Yash Ratnakar Jadhav	AI-DS	<u>Yash</u>
104	Suyog Ashok Pawar	AIDS	<u>Suyog</u>
105	Aditya sachittanand Gunjal	Computer	<u>Aditya</u>
106	Patil Darshan Sanjay	CS	<u>Patil</u>
107	Pratik Shivaji Dhanesh	Computer	<u>Pratik</u>
108	Ahaz Aditya Bhausahob	IT	<u>Ahaz</u>
109	chetan Prakash Chaudhari	I.T	<u>Chetan</u>
110	Karan Vijaykumar Dighole	computer	<u>Karan</u>
111	Deven Anil Borze	CS	<u>Deven</u>
112	Kawde Jivan Ganesh	C.S.	<u>Jivan</u>
113	Krushna Sudhakar Khurpe	AI DS	<u>Krushna</u>
114	Visave Tushar Manohar	C.S	<u>Visave</u>

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Name of Students	Branch	Sign
Vivek Jyuntant Patil	Computer	Patil
Harshwardhan Kisan Gavale	AIDS	Harsh
Tejas Rajendra Badgujar	Computer	TRB
Aditya Dhanraj Patil	AIDS	Patil
Sanket Deepak Patil	T.T.	Patil
Harshal Babu Patil	I.T.	Patil
Rajesh Keshav Bhoir	AI D S	Patil
Aditya vilas Navghare	CS	Patil
Shivam Nagendra Yedav	CS	Patil
Uday Adhar Patil	CS	Patil
chaitanya pratap mahajan	CS	Patil
Aniket SHAMRAO Gawit	AI D S	Patil
Rohit Vinod Ahire	CS	Patil
Sahil Gorakhnath Aher	CS	Patil
Vaibhav Dawlat Chitgar	IT	Patil
Gaurav Rajendra Jadhav	computer	Patil
Nandan dipak kishor	Computer	Patil
Vishal Pandit	IT	Patil
Aman Mishra	IT	Patil
Divyanshu Sachindrasing Padvi	COMP	Patil
Patil Lokesh Uttam	I.T	Patil
Shubham Digambar Sarkar	I.T	Patil
Rohit Prakash Kakalte	C.S	Patil
Kunal Bhaat Kumbhar	C.S	Patil
Aryan Balaji Yenge	IT	Patil
Salve Abhijeet Santosh	CS	Patil
sumit vaibhav Gorse	I.T	Patil
Aryan santosh Vishwakarma	CE	Patil
Rajdeep Anil more	AIDS	Patil
Rishab Deepak Tongid	AIDS	Patil
Siddesh Mahesh Nika	IT	Patil

Sr. No.	Name of Students	Branch	Signature
146	Rushikesh Masoti Patil	C.S	[Signature]
145	Aaditya Rajendra Dhangar	AIIS	[Signature]
146	Daksh Prashant Nikam	C.S	[Signature]
147	Sarthak Rane	AIIS	[Signature]
148	Rudra Bhadane	AIIS	[Signature]
149	Pankaj laxman chaudhari	IT	[Signature]
150	Nitin Mansingh Bhale	C.S	[Signature]
151	Manish Gautam Sahane	C.S	[Signature]
152	Pratik Vinod Meshram	IT	[Signature]
153	Sameel Digambar Givsi	IT	[Signature]
154	Ahmed Shaikh	C.S	[Signature]
155	Piyush P. Bhor	I.T	[Signature]
156	Piyush Bhavsar	IT	[Signature]
157	Darshan Mane	E&TC	[Signature]
158	Kumudini Kishor Khairnar	computer	[Signature]
159	Diya Kishor Sapkale	C.S	[Signature]
160	Payal Raghunath Katoze	IT	[Signature]
161	Om Prayull Dhable	C.S	[Signature]
162	Sujit . B. Khatke	CS	[Signature]
163	Tanmay. Meherjan	CS	[Signature]
164	Sarthak . Shen de	I.T	[Signature]

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Sandip Institute of Technology & Research Centre, Nashik

Department of Engineering Sciences & Humanities

Foundation Course (FE, B.Tech) AY 2023-24

Attendance Sheet

Activity - Applications of Mathematics in Engg


Date- 26/08/2023

Time - 11:00 am to 12:00 pm

Sr. No.	Name of Students	Branch	Sign
1	Jadkar Pallavi Rustom	Electrical	
2	Nikam Puja Sitaram	Electrical	
3	Harshada Umakant Bhavsar	Electrical	
4	Muthal Shubham Sandip	A&R	
5	Jaras Rohit Shantaram	A and R	
6	Aditya Narayan Tale	A&R	
7	Kartik Sambhaji Adhav	ESTC	
8	Surej Nandev Gose	A & R	
9	Mihir Tushar Kulkarni	A & R	
10	Rohit Nageshaji	ENTC	
11	Omkar Ganpat Jadao	electrical	
12	sarthak somnath kedar	mechanical	
13	Yash subhash Ashutosh	Electrical	
14	Anshika Atul Ashutosh	A & R	
15	Shreya Samar Deshmukh	A & R	
16	Bhagyashri Chaganan Kale	electrical	
17	Ange Prayal Dnyaneshwar	Electrical	
18	Dahake Akshay Vithal	electrical	
19	Anushka Narmath Suresh	ESTC	
20	Priya Sanjay Chhule	ENTC	
21	Kanchan Sanjaykumar Patil	A & R	
22	Tejal Chaudhari	A & R	

Sr. No.	Name of Students	Branch	Sign
23	Vidisha Raju Sonawane	EETC	Vidisha
24	Geeta Pratapsing Patil	EETC	Geeta
25	Wakchoure Shivani Sitaram	Mechanical	Shivani
26	Purvaja Rajendra Aher	EETC	Purvaja
27	Vaishnavi Pramod Wagh	Civil	Vaishnavi
28	Sindhuvani Bantlu	A&R	Sindhuvani
29	Manali Anand Sanap	Mechanical	Manali
30	Madhur Baghel	EETC	Madhur
31	Muli Pravinash Rahul	A&R	Muli
32	Gowar Anil Dake	A&R	Gowar
33	Chaitanya Ravindra Jeykar	Electrical	Chaitanya
34	Venayak Anil Azare	Civil	Venayak
35	Galande om kishor	EandTC	Galande
36	Vedant Kaku Bachhav	E&TC	Vedant
37	Soham Madhukar Niturabh	Electrical	Soham
38	Alpit Manojji Pawar	A&R	Alpit
39	Mang Adinath Pandharinath	A&R	Mang
40	Padekar Prashant	Mech.	Padekar
41	Ritesh Nilesh Pagate	A&R	Ritesh
42	Rushikesh Ekanath Halbur	Electrical	Rushikesh
43	Rahul Babu Pawar	Civil	Rahul
44	More Sidheesh Santosh	EETC	More
45	Pranav Rajesh Parde	A&R	Pranav
46	Kimaya Chetan Phalek	EandTC	Kimaya
47	Divya Sapan Kadam	EETC	Divya
48	Harshada Kailas Ahire	Mechanical	Harshada
49	Hemish Mahendra Suryawansi	electrical	Hemish
50	Aditya Prabhakar Randive	Mechanical	Aditya
51	Akshay Raju Patore	mechanical	Akshay
52	Pratik Pradharinath Chandwade	Electrical	Pratik
53	Nedant Shirish Patil	A&R	Nedant

Sr. No.	Name of Students	Branch	Sign
54]	Lalit Jantosh Gavale	Electrical.	
55]	Mayur Tukaram Rathod	Electrical	
56]	Shubham vishnu Kanadi	Mechanical	S.V. Kanadi
57]	Karan Vijay Lohamge	Electrical	Kahamge
58]	Om Aainath Ghule	Electrical	
59]	Barthak S. Amrutkar	A & R	
60]	Yashraj Ramesh Pawar	A & R	
61]	Gaurav Anil Mali	Mechanical	Yaurav
62]	Gholap Pranav Sunil	ENTC	
53]	Aditya Shivaji Shilkarandham	ENTC	
64]	Asmit Chandakant Pagare	Mechanical	Asmit
65]	Siddhant Ashok Lohande	A and R	
66]	Siddeshwar ARUN Wite	Mechanical	
67]	Kundan Bharat Rajnor	Civil	
68]	Sushant Bhaskar mahajan.	civil	
69]	Dukare Hanshad Vasant	Mechanical	
70]	Shelke Vikas Ramdas	mechanical	
71]	patil Lakhnan dilip	Mechanical.	
72]	Rudrark Rajendra Pagare	A and R	
73]	Kunal Tulshiram Bhujal	Computer	
74]	Tejas Kheire	A & R	
75]	Rushikesh Giridhar	A & R	
76]	Aditya S. Maske	AR	
77]	Savale Nikhil Chandakant	A and R	
78]	vishvesh Goraksh Yadav	Electrical	
79]	yash Satish Rindhe	Mechanical	
80]	Sarthak Kailas farse	— 1 —	
81]	sonawane Kartik Suresh	civil	
72	Bachhav Yash Nilesh	ENTC	
83	Thakore Nilesh	ENTC	
84	Shubham Thakore	mechanical	

Sr. No.	Name of Students	Branch	Sign
85	omkar Bhausaheb Bhalerao	civil	
86	Bhagyavardhan Anil Nagane	E & TC	