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THE SANJEEVAN GROUP OF INSTITUTIONS
SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANNHALA

Sanjeevan Knowledge City, Somwar Peth, Panhala, Dist. Kolhapur
Pin-418 201 (Maharashtra) Phone : 91 02977500

Approved by AICTE, New Delhi & Recognized by Govt. of Maharashtra & DTE
& Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

FACULTY DEVELOPMENT PROGRAMME

Title of proposal: Faculty Development program of Advanced Physics in Engineering.

Abstract:

This FDP will give a path for developing research skills & better understanding of recent research. Enlighten with the most widely used advanced technologies in Physics.

Specific objective:

- To empower the faculty members with the innovative ideas to create tool, systems & methods to achieve specific goals by use of knowledge of science.
- To develop the knowledge of thin films & its wide range of applications for engineering.
- To explore possible solutions to energy crisis using magnetic materials.
- To explore applications of Nano materials to reduce air pollution & generate electrical powers.
- To explore applications of Nanomagnetism in various engineering domain

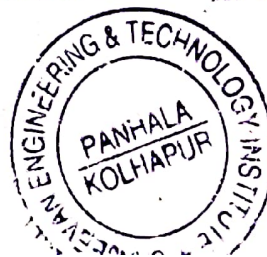
Expected outcome:

- Enhance the levels of thinking to apply scientific knowledge for making tasks easier & more efficient. This will help to enhance problem analysis skills. (PO-1, PO-2)
- Enlighten with the concepts of Physics which are most widely used in advanced engineering and technologies. This will help in research activities. (PO-1, PO-2, PO-3)
- Gain better understanding of recent development & research. (PO-1)

Asana
FDP Co-ordinator

[Signature]
H.O.D.
Department of
Basic Sciences and Humanities

[Signature]
PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala, Dist. Kolhapur. (M.S.)





Faculty Development program
On
Advanced Physics in Engineering

Day 1 (11th March, 2024)

Inaugural session

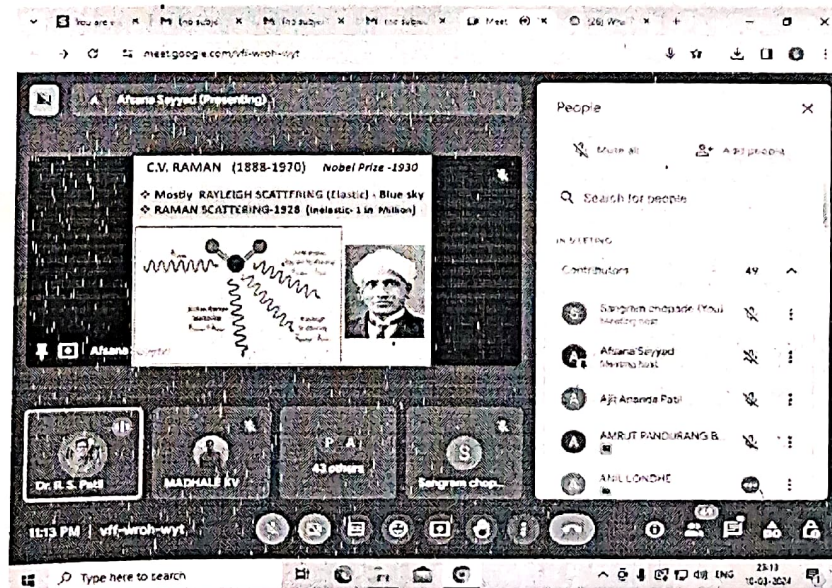
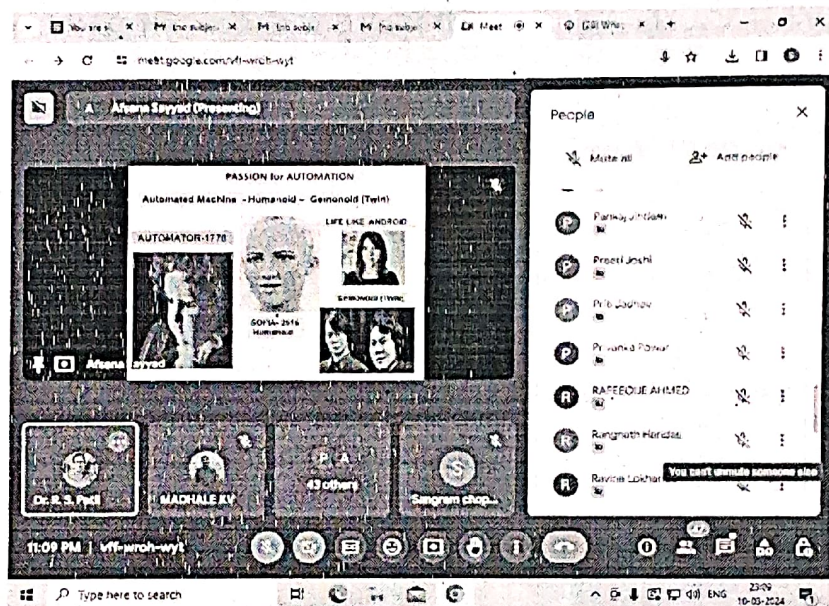
The course is intended to make the participants aware & able to on this emerging area. Around 68 participants attended this program to gain the knowledge. The program commenced on 11th march, 2024 on Google Meet app with introductory and motivational speech from following dignitaries:

1. Mr. S. P. Nangre.(HOD of BSH, SETI)
2. Dr. S. G. Sapate. (Vice-Principal, SETI)
3. Dr. S. N. Jain. (Principal, SETI)

Ms. Afsana Sayyad, Assistant Professor & coordinator of FDP, welcomed all & threw light on the main vision of FDP in her introductory speech. Mr. S. P. Nangre, HOD of Basic Science & Humanities, introduced about FDP. Dr. S. G. Sapate, Vice-Principal, encouraged the participants to utilize the opportunity to its maximum. Dr. S. N. Jain, Principal, congratulated and motivated the organizers for conducting FDP. Principal Dr. S. N. Jain highlighted the achievements institute. He also said that it is the best way to enhance the professional development.

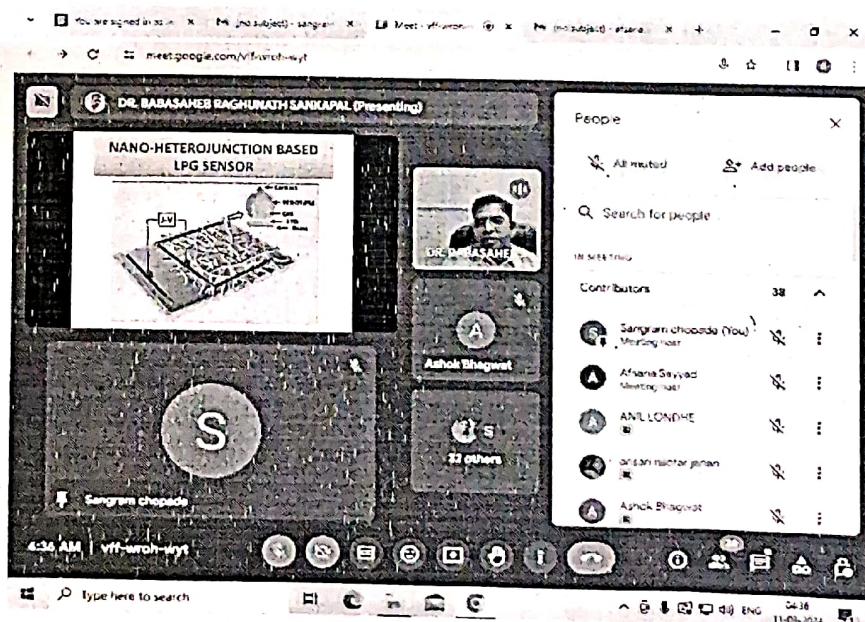
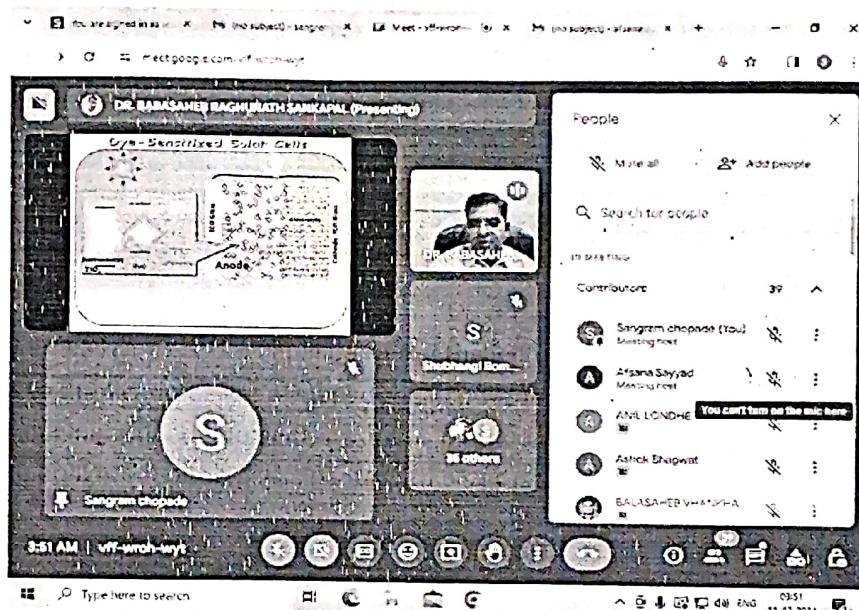
Session I (11:20am to 1:00pm)

In this session, lecture was taken by the Dr. R. S. Patil delivered the talk on **Foundation of Science & Technology - Quest for Truth**. He explained that science is essentially knowledge it is concerned with human understanding of real world around with various examples. He concluded Science & technology have reduced the complexities and improved our living standards. The main issue lies in using these technologies in a negative way which may lead to destruction of the world. The best use of it will surely be a blessing for human race and development.



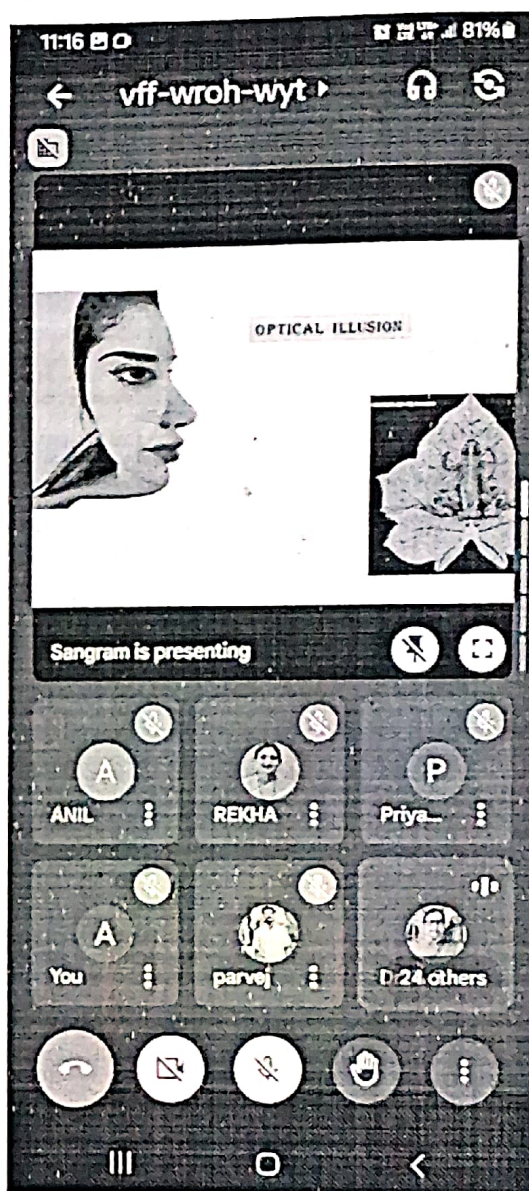
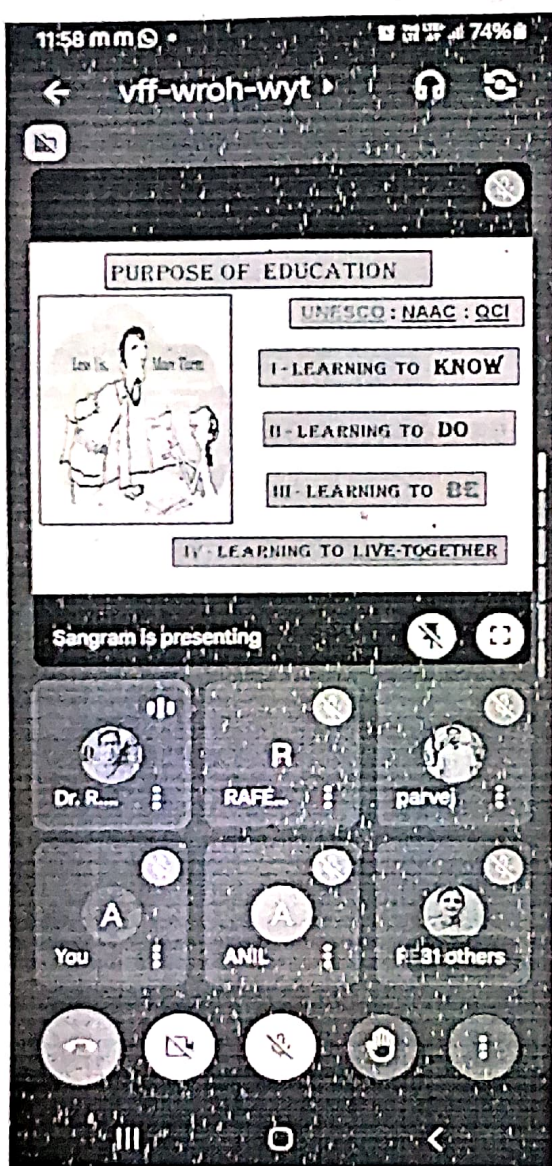
Session II (3:00pm to 5:00pm)

In this the speaker was Dr. B. R. Sankapal delivered the lecture on the **Nano embedded thin films: Synthesis to application**. He developed the knowledge of thin films & its wide range of applications for engineering. He presented various method of synthesis of thin film in his presentation. He enlightened the participants with his great research work.



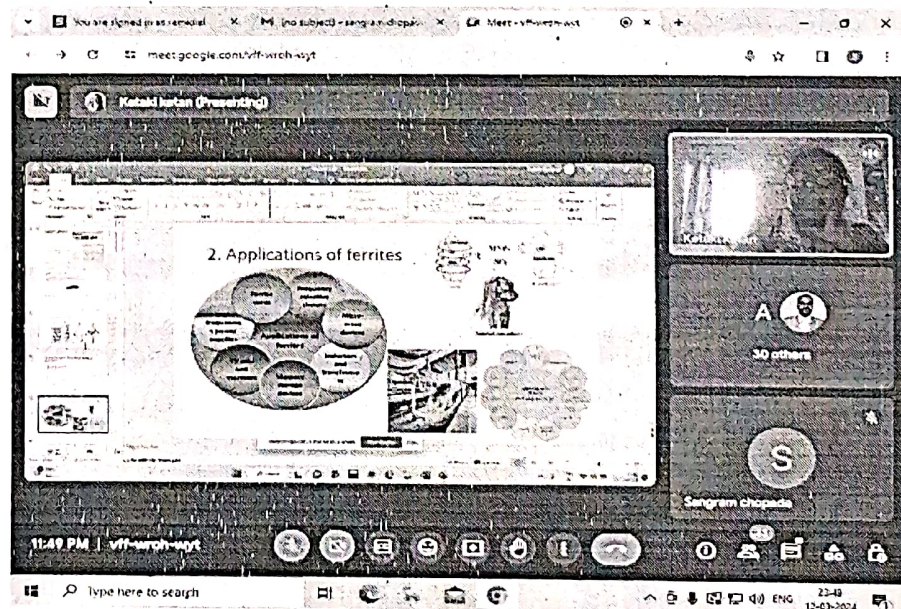
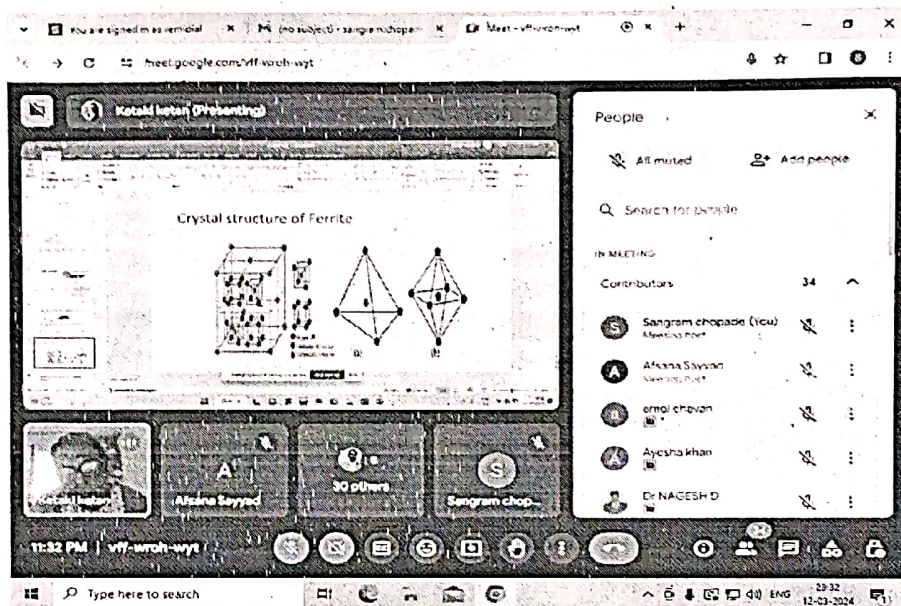
Day 2 (12th March, 2024)

On 2nd day the session was taken by Dr. R. S. Patil on Science of learning & quality Education-core premise. He explained the purpose of education, science learning by showing interesting videos of optical illusion. Also he showed slide of automated Machine, humanoid (SOFIA-2016), Gemonoid (Twin) in his presentation. He gave some task to all participants in the form of puzzles, optical illusion.



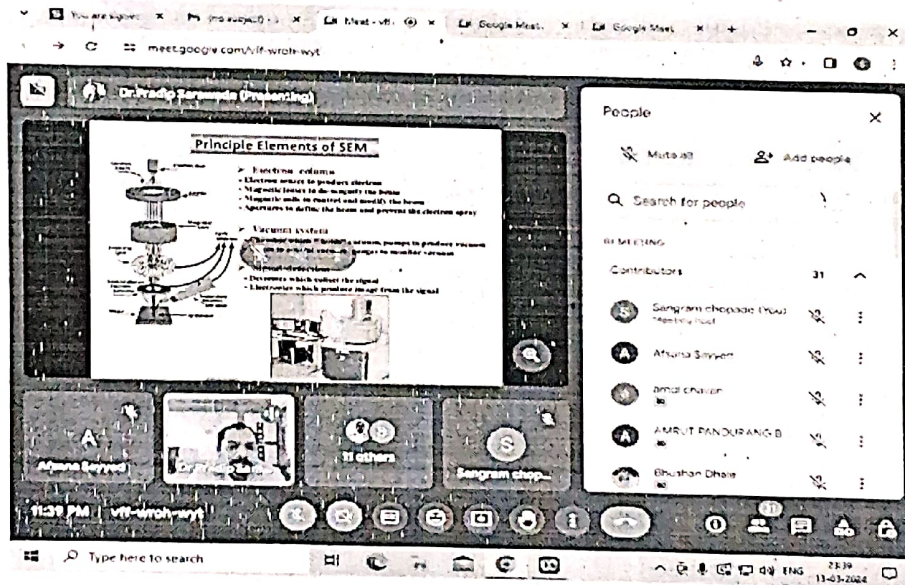
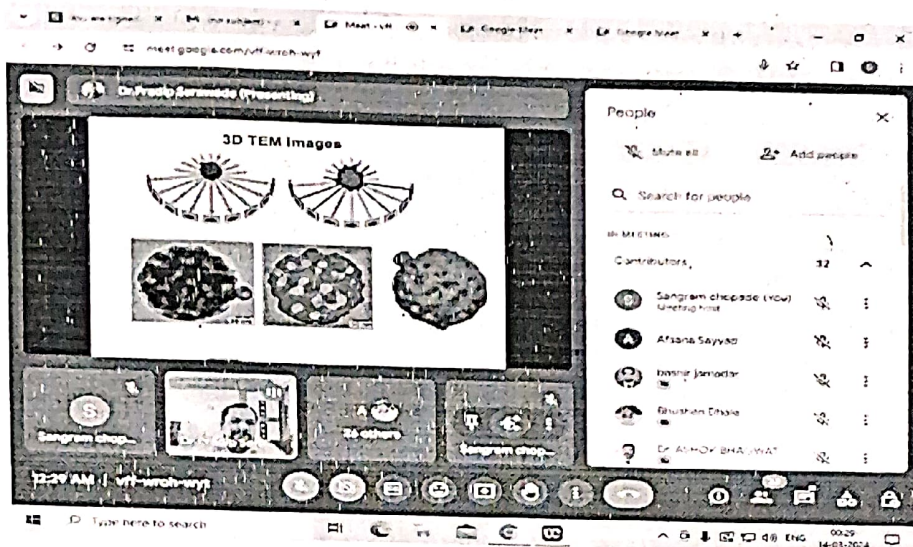
Day 3 (13th March, 2024)

On 3rd day, session was taken by Dr. Mrs. K. K. Patankar on **Physical properties of rare earth doped nano ferrites**. In her session she started with basic knowledge of magnetic materials & their properties. Then she explored explore possible solutions to energy crisis using magnetic materials in her intellectual talk. Also she represented her research work in her presentation.



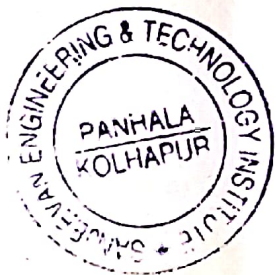
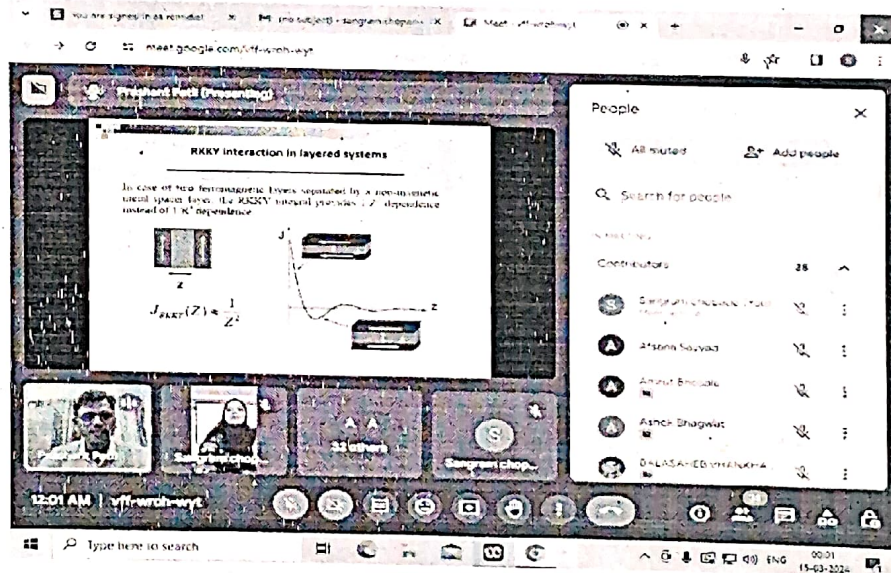
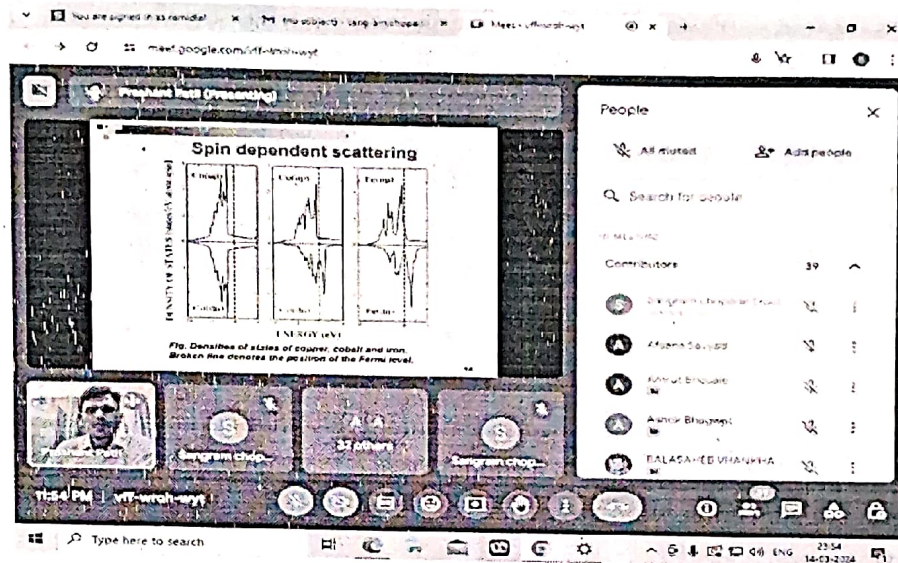
Day 4 (14th March, 2024)

On 4th day, lecture was delivered by speaker Dr. P. B. Sarawade on Exploring nano materials by Electron Microscopy. He explored applications of Nano materials to reduce air pollution, generate electrical powers. He explained details of different types of microscopy to study the materials on lower scales. He showed that as changing the size of materials to lower scales will give many applications to advances the technology.



Day 5 (15th March, 2024)

On the last day of FDP, the lecture was delivered by Dr. P. B. Patil on **Nanomagnetism and Spintronics**. He talked on applications of Nanomagnetism in various engineering domain. He said that a fundamental understanding of nanomagnetism can be exploited system and architecture that possess new functionalities. He explained that how spintronics devices are used in the field of mass storage devices to compress massive amount of data into a small area.



Aisana S.
FDP Co-ordinator

P. B. Patil
H.O.D.
Department of
Basic Sciences and Humanities

P. B. Patil
PRINCIPAL
Sarjeewan Engg. & Tech. Institute
Somwar Peth, Panhala, Dist. Kolhapur. (M.S.)

Basic Science & Humanities Department

5Days Online Faculty Development Program On "Advanced Physics in Engineering"

11th March,2024 to 15th March,2024

Sr.no	Name of Candidate	Institute Name
1	Nagesh D	SJCIT
2	Suhas Prakashrao Patil	Arvind Gavali College of Engineering, Satara
3	Sachin Sitaram Potdar	School of computing, MIT-ADT University Pune
4	SAMMED RAJENDRA LATTHE	Sanjeevn engineering & technology institute, panhala
5	Mudita Suresh Sonawane	KET's V. G Vaze College of Arts, Science & commerce
6	Shweta N Jamble	KET'S V. G. Vaze College
7	Priti Nana Jadhav	Gogate Jogalekar college, Ratnagiri
8	Shubhangi Bompilwar	Cummins College of Engineering for Women, Nagpur
9	Sakshi Sharma	Malla Reddy Engineering College for Women, Nagpur
10	Lande Sonu Dhondu	Mahatma Phule Arts Science and commerce college Panvel, Dist Raigad.
11	Priyanka Viraj Patil	Dr.D.Y.Patil Pratishthan's College of Engineering, Kolhapur
12	Sandip Balasaheb Jadhav	The New College, Kolhapur
13	Ayesha Taimur Maner	Shivaji University, Kolhapur
14	Ashok Daulatrao Bhagwat	Dnyanshree Institute of Engineering and Technology, Satara
15	M. Srinivasa Reddy	Dr. Y.S. R ANU College of Engineering and Technology,
16	Amol Chavan	R.I.T. Rajaramnagar, Islampur
17	Deepa M S	SJC Institute of Technology
18	Palepwad Sheserao Sayaji	The New College, Kolhapur
19	Bhavana H V	Sambhram institute of technology
20	Dattatray Jagannath Sathe	Kolhapur institute Technology's college of Engineering Autonomous Kolhapur
21	Kiran Vinayak Madhale	Walchand College of Engineering, Sangli
22	Rekha S Bhalekar	SGGSI Engineering & Technology, NANDED
23	Yogita S. Patil	COEP Technological University, Pune
24	Dhale Bhushan Baburao	Gogate Jogalekar college, Ratnagiri
25	Ayesha khanam	SSS indira institute of technology polytechnic
26	Bashir Najir Jamadar	Walchand College of Engineering, Sangli
27	Balasaheb Bhimrao Vhankhande	Walchand College of Engineering, Sangli.
28	Sneha Suyash Kumbhar	Balasaheb Desai College, Patan
29	T. Uthayakumar	Dayananda Sagar College of Engineering
30	Kamakshi T	Malla Reddy Engineering College for Women
31	Sudhir pandurang Nangare	Seti Panhala
32	Sivanageswara Rao Dodla	Walchand College of Engineering Sangli
33	RAFEEQUE AHMED K	KNS Institute of Technology, Bengaluru
34	Ravikiran Uppala	Malla Reddy Engineering College for Women
35	V. V. S. Chidambara Swamy	Malla Reddy Engineering College for Women
36	Dayanand Badigannavar	Smt. Kamala and Sri Venkappa M Agadi College of Engineering and Technology, Lakshmeshawar
37	SANJIVKUMAR SWAMIDAS SIDDUL	Walchand Institute of Technology, Solapur
38	Vedantika Vijay Jadhav	Arvind Gavali College of Engineering, Satara

39	Nasrin G.Khan	Sanjeevan Engineering And Technology Institute Panhala
40	Gramopadhye Nitin Swamirao	Walchand Institute of Technology, Solapur
41	Pankaj Maruti Jindam	Walchand Institute Technology, Solapur.
42	Sanjay Kantilal Sarsamkar	Walchand Institute of Technology Solapur
43	Sameena Anis Sayyad	Sanjeevan Engineering and technology Institute
44	SUDARSHAN DINKAR MAHADIK	Dr. Bapuji Salunkhe Institute of Engineering and Technology, Kolhapur
45	M. S. SANNAIKAR	KLS VDIT Haliyal
46	Sangram Dadaso Chopade	Sanjeevan engineering institute Panhala
47	Lokhande Ravina Dattatraya	Pravara Rural Engineering college, Loni
48	Lokhande Shruti Laxman	Pravara rural engineering college, Loni
49	Preeti Sunil Joshi	Walchand Institute of Technology, Solapur
50	Anil Pandurang Londhe	Pravara Rural Engineering College Loni
51	Ansari Nilofar Jahan Gulam Dastagir	SSS Indira polytechnic, Nanded
52	Kale Sandeep Prakash	Sveri's college of engineering, pandharpur
53	Rangnath Nandkumar Haridas	SVERI's College of Engineering, Pandharpur
54	Satish A. Lendave	SVERI's College of Engineering, Pandharpur
55	Shinde Mohan Baburao	New Polytechnic, Kolhapur
56	Nilofer khan	Sanjeevan engineering and technology institute
57	Parvej dastgir dhalait	Sanjeevan engineering technology institute, panhala
58	Suhas Gajanan Sapate	Sanjeevan Engineering and Technology Institute, Panhala
59	K. Nagalakshmi	RVR & JC college of Engineering
60	Amrut P. Bhosale	Rajarambapu Institute of Technology, Sakhrale
61	Ajit Ananda Patil	Sanjivan Engineering and technology institute panhala
62	Shital Chavan	Sanjeevan engineering technology institute, panhala
63	Rajanikant Mohan Kurane	Rajarambapu Institute of Technology, Islampur
64	VISHAL TUKARAM METKARI	Sanjeevan engineering and technology institute
65	Sana Ataullah Momin	Sharad Science and commerce Junior college
66	Raghu Gunnagol	Jain College of Engineering and Research, Belagavi
67	Gauri Patilwaichal	D. Y. Patil Engineering & technology, Kolhapur
68	Sonutai Mohanrao Bharne	Indira institute

Asana
FDP Co-ordinator.

[Signature]
H.O.D.
Department of
Basic Sciences and Humanities

[Signature]
PRINCIPAL
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala, Dist. Kolhapur. (M)

