

Report on National Seminar on Applications of Nanoscience and Nanotechnology

Organized by

Post Graduate Department of Physics, Devchand College, Arjunnagar

Under MoU activity in collaboration with

Department of Physics, Sanjay Ghodawat University, Kolhapur,

Department of Medical Physics, D.Y. Patil Education Society, Kolhapur, and

Department of Physics, Vivekanand College, Kolhapur.



Janata Shikshan Mandal's
DEVCHAND COLLEGE, ARJUNNAGAR

Tal.: Kagal, Dist.: Kolhapur (M.S.), India
(Accredited with "A+" Grade by NAAC)

National Seminar (Hybrid Mode)
on

Applications of Nanoscience and Nanotechnology

Organized by

Post Graduate Department of Physics, Devchand College, Arjunnagar

Under MoU's activity between
Devchand College, Arjunnagar
&

Sanjay Ghodawat University, Atigre, Kolhapur.
D.Y. Patil Education Society (Deemed to be University), Kolhapur.
Vivekanand College, Kolhapur.

Duration

26th Feb 2024 to 2nd March 2024 (11.00 am to 12.00 Noon IST)

Google meet

Registration Link: <https://forms.gle/pWnaGtVsKsew2QK29>



Scan QR code
for Registration

Dr. P. R. Jadhav
Convenor (9420353379)

Dr. C. M. Kanamadi
Coordinator (8806599144)

Dr. S. D. Patil
Head

Prof. (Dr.) G.D. Ingale
Principal

Members

Dr. K. V. Gurav

Dr. P. A. Magdum

Mr. A. R. Vedante

Miss J. P. Rajput

Miss P. P. Patil

Introduction

The "National Seminar on Applications of Nanoscience and Nanotechnology" was successfully held in a hybrid mode via **Google Meet** from February 26 to March 2, 2024. This seminar aimed to expand knowledge, foster networking among experts, and delve into cutting-edge research in the field of nanoscience and nanotechnology. The event was organized by the Post Graduate Department of Physics, Devchand College, Arjunnagar, under the MoU activity in collaboration with the Department of Physics, Sanjay Ghodawat University, Kolhapur, the Department of Medical Physics, D.Y. Patil Education Society, Kolhapur, and the Department of Physics, Vivekanand College, Kolhapur.

Seminar Objectives

The seminar aimed to foster a collaborative environment for researchers and industry professionals to exchange knowledge and ideas related to nanoscience and nanotechnology. By bringing together experts from diverse fields, the seminar sought to accelerate innovation and drive advancements in this rapidly evolving area.

Specifically, the objectives included:

- **Disseminating knowledge** of the latest research findings and emerging trends in nanoscience and nanotechnology.
- **Facilitating networking and collaboration** among researchers, academicians, and industry professionals to foster partnerships and joint ventures.
- **Highlighting the potential applications** of nanoscience and nanotechnology across various sectors, including healthcare, energy, materials science, and electronics.
- **Addressing challenges and opportunities** associated with the development and commercialization of nanotechnology-based products and technologies.

By achieving these objectives, the seminar contributed to **advancing the field of nanoscience and nanotechnology** and **promoting its practical applications** in addressing global challenges.

The seminar was meticulously coordinated by a dedicated committee of experts from Devchand College, Arjunnagar. **Dr. P. R. Jadhav** as **Convenor** and the guidance of **Dr. C. M. Kanamadi** as **Coordinator**, the committee ensured the seamless execution of the event.

The committee also included:

- **Dr. S. D. Patil:** Head of the Department of Physics
- **Prof. (Dr.) G. D. Ingale:** Principal of Devchand College
- **Dr. K. V. Gurav**
- **Dr. P. A. Magdum**
- **Mr. A. R. Vedante**
- **Miss J. P. Rajput**
- **Miss P. P. Patil**

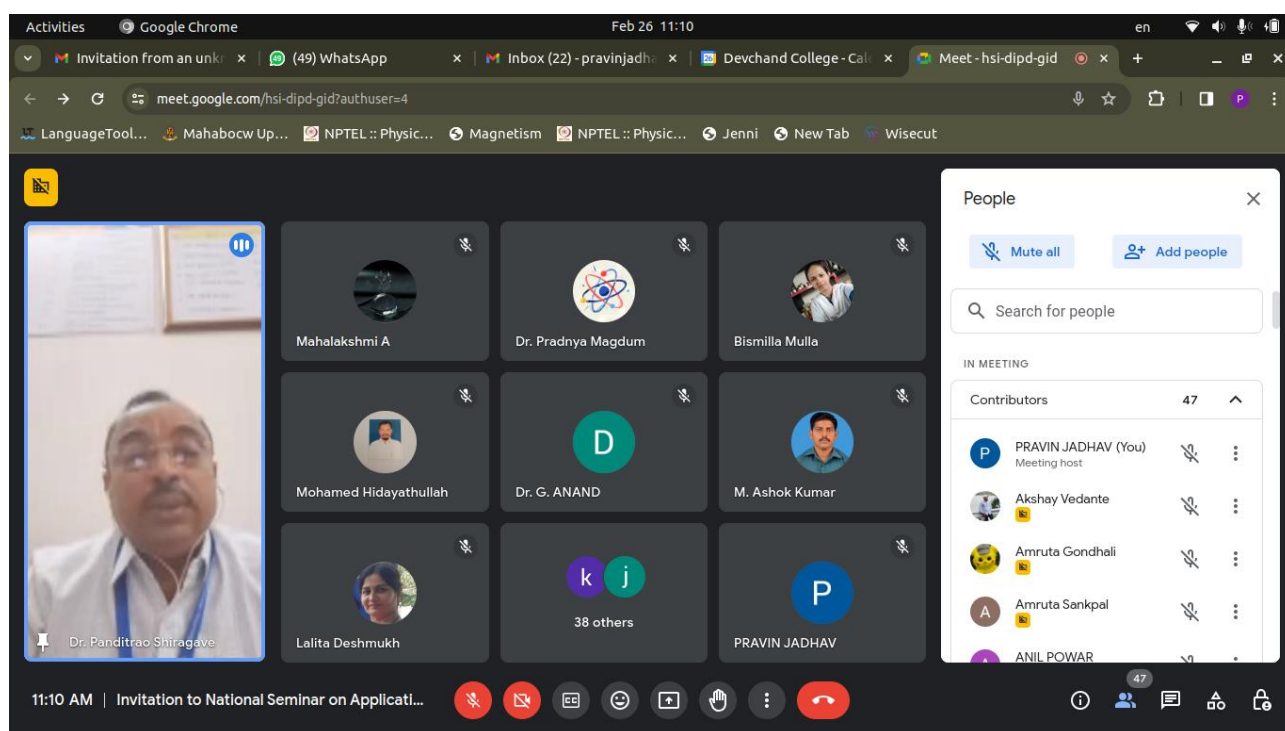
The combined expertise and dedication of these committee members were instrumental in the success of the seminar.

Day 1 (Monday, 26/02/2024):

Day first was divided into two sessions. First part the session was inaugural of the National seminar and second part was for seminar lecture by speaker.

Inaugural Session:

The seminar commenced with a formal inaugural session. Dr. S. D. Patil, Head of the Department of Physics at Devchand College, Arjunnagar, delivered the welcoming address. In his remarks, Dr. Patil emphasized the significance of nanoscience and nanotechnology in contemporary research and development. Subsequently, Prof. (Dr.) P. D. Shirgave, IQAC Coordinator at Devchand College, addressed the audience with the presidential address. Prof. Shirgave provided an overview of the field, highlighting key applications and the importance of nanotechnology research. He concluded by extending his best wishes for the success of the seminar.



Day 1 (Monday, 26/02/2024):

- **Topic:** *Introduction to Nanoscience and Nanotechnology*
- **Speaker:** Dr. Pravin Jadhav



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NAAC Accredited by A⁺ (CGPA = 3.46) (4th Cycle)

Post Graduate Department of Physics
Organized
National Seminar on
“Applications of Nanoscience and Nanotechnology”
(Online Mode through Google Meet)



Topic:
“Introduction to Nanoscience and Nanotechnology”

Resource Person:
Dr. Pravin R. Jadhav
Devchand College
Arjunnagar.



Date: 26.02.2024
Time: 11:00 am -
12:00 noon

Google Meet Link: <https://meet.google.com/hsi-dipd-gid>

Organizing Committee

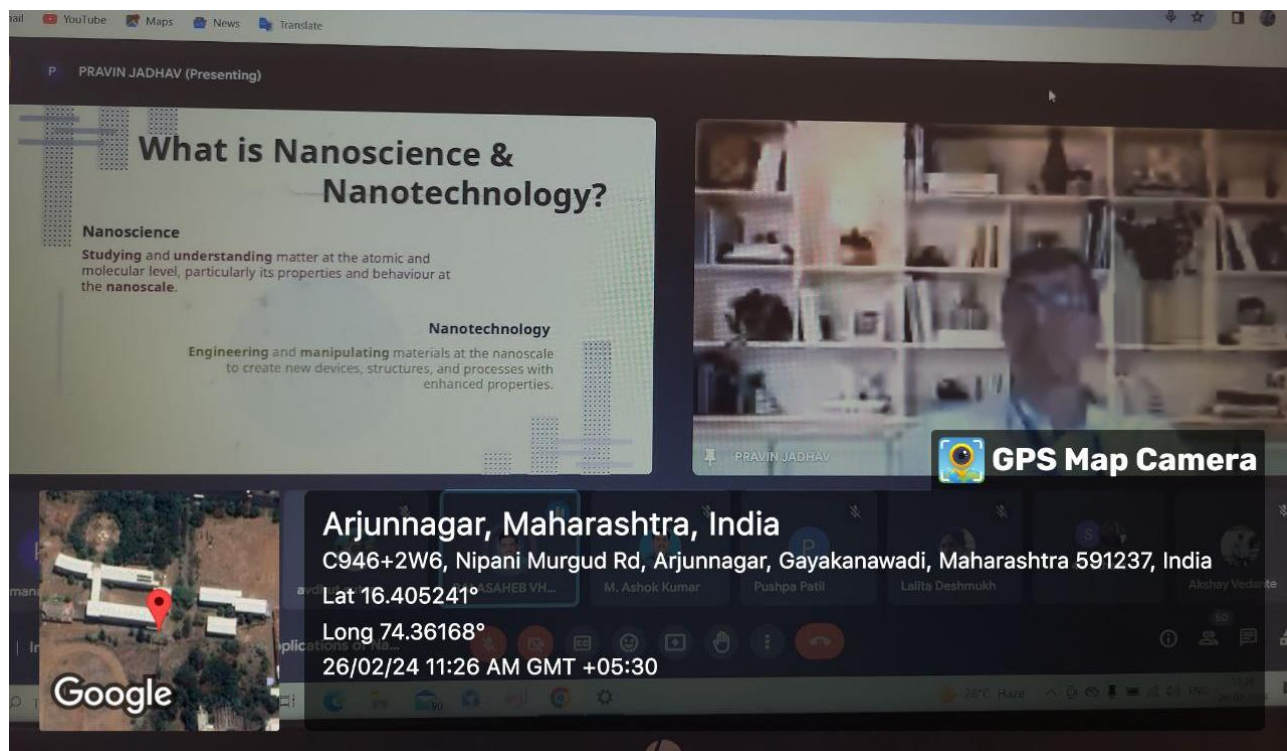
Dr. P. R. Jadhav Convener (9420353379)	Dr. C. M. Kanamadi Coordinator (8806599144)	Dr. S. D. Patil Head	Prof.(Dr.) G.D. Ingale Principal
Members			
Dr. K. V. Gurav	Dr. P. A. Magdum	Mr. A. R. Vedante	Miss J. P. Rajput
Miss P. P. Patil			

Dr. Jadhav Provided a foundational understanding of the principles and applications of nanoscience and nanotechnology. He also elaborated the concept of Nanoscience, the study of matter at the nanoscale (1-100 nanometers), and nanotechnology, the application of nanoscience to create innovative materials and devices, are two interrelated fields with immense potential. Nanoscience delves into the fundamental principles governing the behavior of matter at the atomic and molecular levels, while nanotechnology focuses on the practical applications of these principles to develop novel products and technologies.

Nanomaterials exhibit distinct characteristics that differentiate them from their bulk counterparts. These unique properties include increased surface area, enhanced reactivity, improved mechanical properties, and novel electrical and optical properties. These properties enable nanomaterials to be used in a wide range of applications, including electronics, medicine, materials science, and energy.

While nanotechnology offers significant promise, it also presents challenges such as safety concerns, scalability, and cost. Addressing these challenges is crucial for the successful development and commercialization of nanotechnology-based products.

The day commenced with a formal introduction of Dr. Pravin Jadhav by Mr. A. R. Vedante. Following Dr. Jadhav's presentation, Mr. A. R. Vedante proposed a vote of thanks to the speaker and the audience, acknowledging their contributions to the seminar.



Day 2 (Tuesday, 27/02/2024):

- **Topic:** *Importance of Super Hydrophobic Nanoparticles in Day-to-Day Life*
- **Speaker:** Dr. Sanjay Latthe

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National Seminar on
"Applications of Nanoscience and Nanotechnology"
(Online Mode through Google Meet)

**Topic:**
"Importance of Superhydrophobic Coatings in day to day life"

Resource Person:
Dr. Sanjay Latthe
(JSPS Fellow/Ex Post Doc)
Vivekanand College
Kolhapur

 **Date:** 27.02.2024
 **Time:** 11:00 am - 12:00 noon

Google Meet Link: <https://meet.google.com/hsi-dipd-gid>

Organizing Committee

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Members				
Dr. K. V. Gurav	Dr. P. A. Magdum	Mr. A. R. Vedante	Miss J. P. Rajput	Miss P. P. Patil

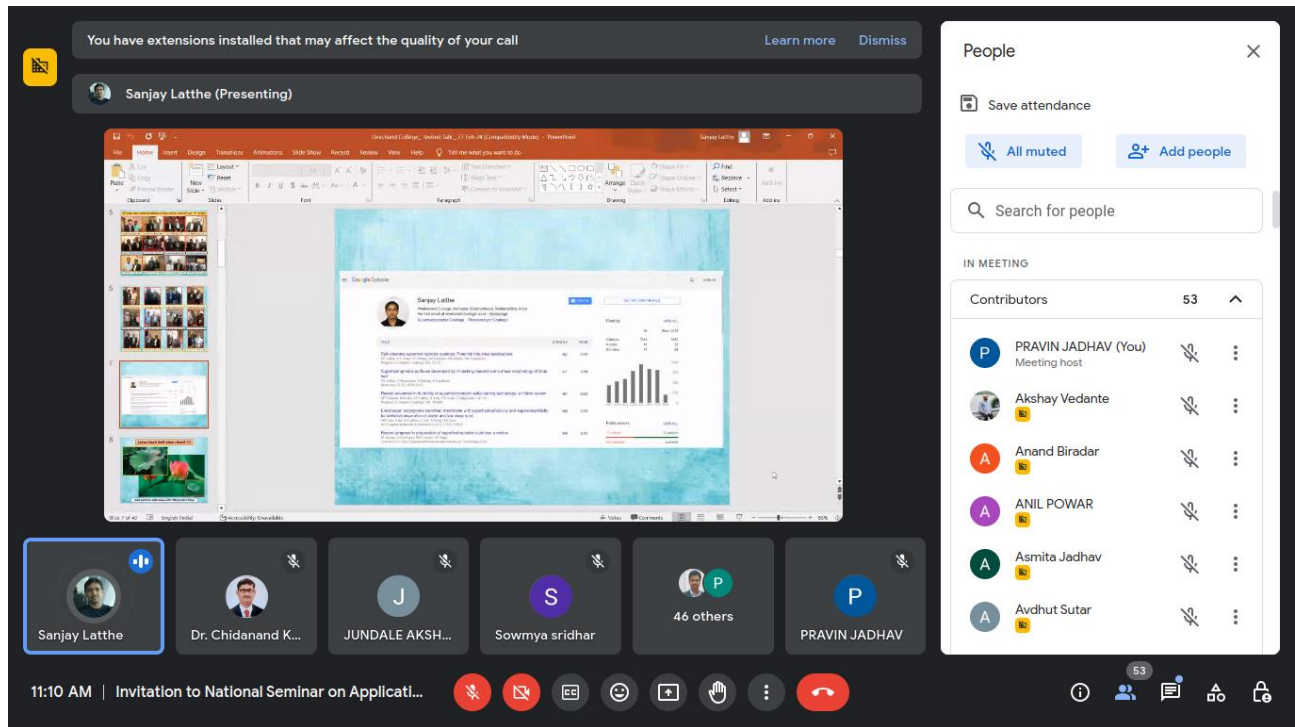
Dr. Sanjay Latthe's presentation provided a comprehensive overview of the practical applications of superhydrophobic nanoparticles, shedding light on their potential to revolutionize various aspects of daily life. By elucidating the unique properties and diverse applications of these materials, Dr. Latthe offered valuable insights into the innovative ways in which nanotechnology can be harnessed to enhance the functionality and efficiency of everyday products.

Furthermore, Dr. Latthe's presentation underscored the importance of ongoing research and development in the field of superhydrophobic nanoparticles. As scientists continue to explore new applications and address potential challenges, the future holds immense promise for the widespread adoption of these materials in various industries and sectors.

In conclusion, Dr. Sanjay Latthe's presentation provided a valuable contribution to the seminar by highlighting the practical significance of superhydrophobic nanoparticles and inspiring

participants to consider the potential benefits of nanotechnology in their own research and endeavors.

The second day commenced with a formal introduction of Dr. Sanjay Latthe's by Dr. C.M.Kanamadi. Following Dr. Latthe's presentation, Dr. C.M.Kanamadi proposed a vote of thanks to the speaker and the audience, acknowledging their contributions to the seminar.



Day 3 (Wednesday, 28/02/2024):

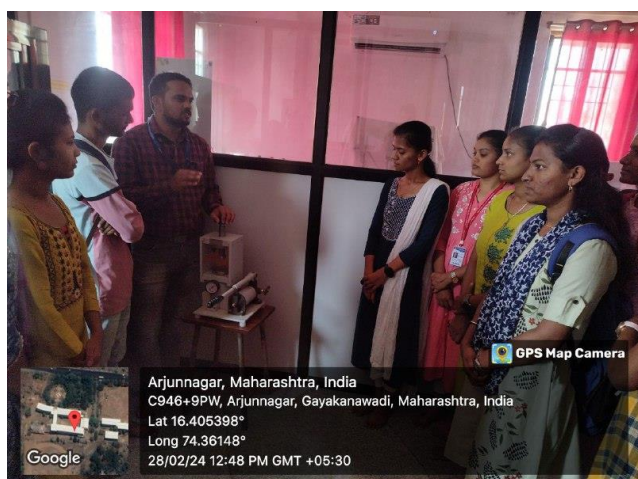
- **Activity:** *Hands-on Training* (Offline at Devchand College, Arjun Nagar)
- **Instructor:** Dr. C. M. Kanamadi and Mr. Akshay Vedante, Department of Physics, Devchand College, Arjun Nagar

The hands-on training session was a crucial component of the seminar, providing participants with a tangible understanding of nanotechnology techniques. By actively engaging in the preparation, characterization, and fabrication of nanomaterials, attendees were able to reinforce their theoretical knowledge and gain practical skills that would be invaluable in their future endeavours.

Furthermore, the training session fostered a collaborative and interactive learning environment, allowing participants to share their experiences, ask questions, and learn from one another. This collaborative atmosphere contributed to a more enriching and engaging learning experience.


In conclusion, the hands-on training session provided participants with an invaluable opportunity to apply their theoretical knowledge to practical nanotechnology techniques. By engaging in hands-on activities and developing practical skills, attendees were well-equipped to pursue further research and explore the exciting possibilities of nanotechnology.

The Third day commenced with a formal introduction of Dr. C. M. Kanmadi by Dr. P. R. Jadhav. Following hands on training, Mr. A. R. Vedante proposed a vote of thanks to the speaker and the audience, acknowledging their contributions to the seminar.



Day 4 (Thursday, 29/02/2024):

- **Topic:** *Role of Nanomaterials in Biomedical Applications: Detection, Diagnosis, and Treatment*
- **Speaker:** Dr. Vishwajeet Khot




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Topic: “Role of nanomaterials in Biomedical application: Detection, Diagnosis and Treatment ”

Resource Person:
Dr. Vishwajeet Khot
Department of Medical Physics,
D Y Patil University (Deemed),
Kolhapur



Date: 29.02.2024
Time: 11:00 am - 12:00 noon

Google Meet Link: <https://meet.google.com/hsi-dipd-gid>

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Members			
Dr. K. V. Gurav	Dr. P. A. Magdum	Mr. A. R. Vedante	Miss J. P. Rajput
			Miss P. P. Patil

Dr. Vishwajeet Khot from Department of Medical Physics, D.Y. Patil Education Society, Kolhapur, presentation provided a comprehensive overview of the exciting potential of nanomaterials in biomedical applications. By highlighting the diverse applications and advantages of using nanomaterials in healthcare, Dr. Khot inspired participants to explore the possibilities of nanotechnology in addressing critical medical challenges.

Furthermore, Dr. Khot's presentation emphasized the importance of ongoing research and development in the field of nanomedicine. As scientists continue to explore new applications and address potential challenges, the future holds immense promise for the use of nanomaterials in improving patient outcomes and revolutionizing healthcare.

In conclusion, Dr. Vishwajeet Khot's presentation provided a valuable contribution to the seminar by highlighting the transformative potential of nanomaterials in biomedical applications. By inspiring participants to consider the possibilities of nanotechnology in addressing critical medical challenges, Dr. Khot encouraged further research and development in this promising field.

The Fourth day commenced with a formal introduction of Dr. Vishwajeet Khot by Dr. C. M. Kanamadi. Following Dr. Khot's presentation, Dr. C. M. Kanamadi proposed a vote of thanks to the speaker and the audience, acknowledging their contributions to the seminar.

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Vishwajeet Khot (Presenting)

The depiction displays this scale in size and types of nanoparticles

Angstrom-scale		Nanoscale			Microscale			Macroscale	
Water	Glucose	Virus	Protein	Organelle	Bacteria	Cell	Embryo	Worm, zebrafish	Mouse brain
0.1 nm	1 nm	10 nm	100 nm	1 μm	10 μm	100 μm	1 mm	1 cm	

Fig. 1 Categories of nanomaterials applied in cancer treatment. **a** Nanoparticles. **b** Liposomes. **c** Solid lipid nanoparticles. **d** Nanostructured lipid carriers. **e** Nanoemulsions. **f** Dendrimers. **g** Graphene. **h** Metallic nanoparticles. PEG, polyethylene glycol

Adapted from Yicang Wu and Hari Shroff, Histochemistry and Cell Biology, 2022

Vishwajeet Khot

23 others

PRAVIN JADHAV

11:06 AM | Invitation to National Seminar on Applicati...

Day 5 (Friday, 01/03/2024):

- **Topic:** *Transition Metal Oxide/Hydroxide Electrocatalysts for Green Hydrogen Generation*
- **Speaker:** Dr. Sambhaji Pawar

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“Applications of Nanoscience and Nanotechnology”
(Online Mode through Google Meet)

Topic: “Transition based metal oxide/Hydroxide electrocatalyst for green hydrogen generation”

Resource Person:
Dr. Sambhaji m Pawar
R & D Director
Sanjay Ghodawat University
Atigre, Kolhapur

Date: 01.03.2024
Time: 11:00 am - 12:00 noon

Google Meet Link: <https://meet.google.com/hsi-dipd-gid>

Organizing Committee

Dr. P. R. Jadhav Convenor (9420353379)	Dr. C. M. Kanamadi Coordinator (8806599144)	Dr. S. D. Patil Head	Prof.(Dr.) G.D. Ingale Principal	
Dr. K. V. Gurav	Dr. P. A. Magdum	Mr. A. R. Vedante	Miss J. P. Rajput	Miss P. P. Patil

Dr. Sambhaji Pawar Department of Physics, Sanjay Ghodawat University, Kolhapur, presentation provided a valuable overview of the role of nanomaterials in clean energy production, specifically green hydrogen generation. By highlighting the potential of transition metal oxide/hydroxide electrocatalysts and addressing the associated challenges, Dr. Pawar inspired participants to explore the possibilities of nanotechnology in advancing sustainable energy solutions.

Furthermore, Dr. Pawar's presentation emphasized the importance of interdisciplinary research and collaboration in the field of green hydrogen generation. By combining expertise from materials science, chemistry, and electrochemistry, researchers can develop innovative electrocatalysts and overcome the challenges associated with their commercialization.

In conclusion, Dr. Sambhaji Pawar's presentation provided a valuable contribution to the seminar by highlighting the potential of nanomaterials in addressing the global energy crisis. By inspiring participants to explore the possibilities of green hydrogen generation and the role of

nanotechnology in this field, Dr. Pawar encouraged further research and development towards a sustainable energy future.

The Fifth day commenced with a formal introduction of Dr. Sambhaji Pawar by Dr. S. D. Patil. Following Dr. Pawar's presentation, Dr. S.D.Patil proposed a vote of thanks to the speaker and the audience, acknowledging their contributions to the seminar.

The screenshot displays a Zoom meeting interface. At the top, a notification reads: "You have extensions installed that may affect the quality of your call" with links for "Learn more" and "Dismiss". Below this, the current speaker is identified as "Sambhaji Pawar (Presenting)".


The main content area shows a presentation slide with the SGU logo in the top left corner. The slide features a diagram of three interlocking gears labeled "SYNTHESIS", "CHARACTERIZATION", and "APPLICATIONS". Arrows point from "SYNTHESIS" to "CHEMISTRY" and from "APPLICATIONS" to "PHYSICS". An illustration of two children is positioned between the "CHEMISTRY" and "PHYSICS" labels. At the bottom of the slide, the text "Engineering + Technology" is displayed, along with a "Stop sharing" button and a "Hide" link.

On the right side of the interface, there is a vertical list of participant thumbnails. The top thumbnail shows "Sambhaji Pawar" with a blue border, indicating he is the active speaker. Below it is a thumbnail for "26 others". At the bottom of the list is a thumbnail for "PRAVIN JADHAV" with a blue circle containing a white "P" and a microphone icon.

At the bottom of the Zoom window, the time is "11:11 AM" and the meeting title is "Invitation to National Seminar on Applicatio...". A row of control icons includes: a red microphone icon (muted), a red video icon (disabled), a chat icon, a smiley face icon, a screen share icon, a hand icon, a three-dot menu icon, and a red hang-up icon.


Day 6 (Saturday, 02/03/2024):

- **Topic:** *Role of Nanomaterials in Energy Storage Applications*
- **Speaker:** Dr. Umakant Patil




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(Online Mode through Google Meet)



Topic: “Role of nanomaterials in Energy storage applications ”
Resource Person:
Dr. Umakant M. Patil
Department of Medical Physics,
D Y Patil University (Deemed),
Kolhapur



Date: 02.03.2024
Time: 11:00 am - 12:00 noon

Google Meet Link: <https://meet.google.com/hsi-dipd-gid>

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Members			
Dr. K. V. Gurav	Dr. P. A. Magdum	Mr. A. R. Vedante	Miss J. P. Rajput
			Miss P. P. Patil

Dr. Umakant Patil from Department of Medical Physics, D.Y. Patil Education Society, Kolhapur, presentation provided a comprehensive overview of the role of nanomaterials in energy storage applications. By highlighting the potential of nanomaterials to improve the performance of batteries and supercapacitors, Dr. Patil inspired participants to explore the possibilities of nanotechnology in addressing the growing energy storage needs.


Furthermore, Dr. Patil's presentation emphasized the importance of interdisciplinary research and collaboration in the field of energy storage. By combining expertise from materials science, chemistry, and engineering, researchers can develop innovative nanomaterials and overcome the challenges associated with their commercialization.

In conclusion, Dr. Umakant Patil's presentation provided a valuable contribution to the seminar by highlighting the transformative potential of nanomaterials in energy storage. By inspiring participants to explore the possibilities of nanotechnology in addressing the global energy challenges, Dr. Patil encouraged further research and development towards a sustainable energy future.

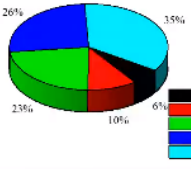
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U Umakant Patil (Presenting)

1 Need of Energy Storage Devices



PRIMARY ENERGY USE



Energy Source	Percentage
Nuclear	6%
Renewable	35%
Natural gas	23%
Coal	10%
Liquid	26%

The pie chart of world primary energy consumption in 2020

- According to the U.S. Energy Information Administration (EIA), fossil fuels amount to about 84 % of primary energy consumption.
- Fossil fuels create around 20 billion tones of CO₂ per year.
- The nuclear contributes to around 6 % of primary energy consumption.

CTR, D. Y. Patil Edu. Soc., Kolhapur

11:10 AM | Invitation to National Seminar on Applicati...

Umakant Patil


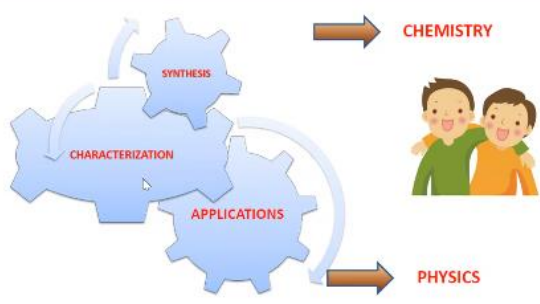
k 35 others

P PRAVIN JADHAV

The sixth day commenced with a formal introduction of Dr. Umakant Patil by Dr. K.V.Gurav. Following Dr. Patil's presentation, Dr. K.V.Gurav proposed a vote of thanks to the speaker and the audience, acknowledging their contributions to the seminar.

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Sambhaji Pawar (Presenting)

Engineering + Technology

Sambhaji Pawar

26 others

P PRAVIN JADHAV

11:11 AM | Invitation to National Seminar on Applicatio...

Sample attendance

* Invitation to National Seminar on Applications of Nanoscience and Nanotechnology			
* Meeting code: hsi-dipd-gid			
* Created on 2024-02-27 10:50:48			
* Ended on 2024-02-27 12:00:10			
Sr. No.	Full Name	First Seen	Time in Call
1	ANIL POWAR	2024-02-27 10:51:42	01:08:02
2	Aji Udhaya	2024-02-27 10:50:49	00:06:59
3	Akshay Vedante	2024-02-27 10:56:30	01:03:28
4	Amruta Sankpal	2024-02-27 11:00:08	00:02:42
5	Anand Biradar	2024-02-27 10:54:33	01:05:36
6	Arun	2024-02-27 11:10:52	00:49:17
7	Ashmita Mohan	2024-02-27 11:43:07	00:17:02
8	Asmita Jadhav	2024-02-27 11:01:53	00:57:02
9	Avdhut Sutar	2024-02-27 11:01:19	00:58:50
10	Bantesh Bammannavar	2024-02-27 10:50:49	01:05:24
11	Beulah Jesudoss	2024-02-27 10:51:01	01:09:08
12	Bhagyashree Ingale	2024-02-27 11:04:17	00:55:52
13	Bismilla Mulla	2024-02-27 11:05:26	00:51:50
14	DR PRAVIN MORE	2024-02-27 11:01:31	00:34:12
15	Dhairiyashil Shinde	2024-02-27 10:50:59	01:07:11
16	Dhanashri Gundale	2024-02-27 11:58:18	00:00:51
17	Dipali Ingavale	2024-02-27 10:50:49	00:25:45
18	Dr Rahul Patil	2024-02-27 11:28:35	00:31:34
19	Dr. Azeezaa .V	2024-02-27 11:07:15	00:52:54
20	Dr. Chidanand Kanamadi	2024-02-27 10:51:44	01:07:30
21	Dr. G. ANAND	2024-02-27 10:54:36	00:57:58
22	Dr. P. Divya H&S Teaching	2024-02-27 11:03:20	00:56:49
23	Dr. Pitambar Y. Patil	2024-02-27 10:55:03	00:01:13
24	Dr. Sumayya Inamdar	2024-02-27 11:22:45	00:02:42
25	Dr. Trupti Urunkar	2024-02-27 11:47:35	00:11:24
26	Dr.RAFI AHAMED S	2024-02-27 10:51:10	00:44:19
27	Dr.S.RENUGA	2024-02-27 10:50:49	00:58:26
28	Feyolah Herin.R	2024-02-27 11:10:41	00:47:07
29	JUNDALE AKSHAY	2024-02-27 11:01:12	00:58:57
30	Janardhan Rathod	2024-02-27 10:54:16	00:55:14
31	Jayashri Patil	2024-02-27 10:53:49	01:04:58

32	Juliet Josephine Joy HICET PHYSICS FACULTY	2024-02-27 11:20:18	00:38:50
33	Kishor Patil	2024-02-27 11:23:42	00:36:27
34	Lahu Phadatare	2024-02-27 11:12:45	00:47:24
35	Laxmi Walaki	2024-02-27 11:05:09	00:55:00
36	MADHALE KV	2024-02-27 11:00:36	00:59:34
37	Maithili Mohite	2024-02-27 11:14:50	00:43:04
38	Mohamed Hidayathullah	2024-02-27 10:53:02	01:03:00
39	Mr.Avinash K. Ladgaonkar	2024-02-27 10:57:54	00:35:04
40	NARENDRA HIREMATH	2024-02-27 11:00:41	00:55:14
41	Narayanan P	2024-02-27 11:35:14	00:00:13
42	Nita Jamanik	2024-02-27 11:09:30	00:36:03
43	PRAVIN JADHAV	2024-02-27 10:50:49	01:09:20
44	Pradip Gaikwad	2024-02-27 10:52:13	01:01:55
45	Preeti Joshi	2024-02-27 11:01:53	00:58:16
46	Preeti Kumari Prasad	2024-02-27 10:50:49	01:09:20
47	Pushpa Patil	2024-02-27 11:05:13	00:53:48
48	RAJA R Teaching	2024-02-27 11:22:35	00:37:34
49	RISHI KULKARNI 01	2024-02-27 10:56:40	00:10:59
50	RUTUJA KUMBHAR	2024-02-27 11:01:39	00:58:25
51	Rajaram Sutar	2024-02-27 10:59:33	01:00:34
52	Rathika Ratheesh	2024-02-27 11:01:07	00:01:37
53	Rehan Ansari	2024-02-27 11:34:17	00:06:36
54	Renukadevi Saravanan	2024-02-27 11:12:44	00:44:01
55	Rushi Dongare	2024-02-27 11:10:32	00:49:35
56	Rutuja Ekunde	2024-02-27 10:52:15	01:07:49
57	SIDDHI S DAKAVE (RC2333002011006)	2024-02-27 10:51:17	00:55:33
58	Sagar Ingole	2024-02-27 10:59:51	01:00:18
59	Sakshi Karande	2024-02-27 11:05:23	00:54:26
60	Sanika Chavan	2024-02-27 11:16:32	00:42:23
61	Sanika Jadhav	2024-02-27 10:55:09	01:05:00
62	Sanjay Latthe	2024-02-27 10:50:49	01:57:23
63	Sayali Gawade	2024-02-27 11:10:42	00:49:27
64	Shital Bhosale	2024-02-27 11:11:27	00:48:43
65	Shivani Patil	2024-02-27 11:01:34	00:32:16
66	Shivani Sagar	2024-02-27 11:11:08	00:12:18
67	Shivaraj Kavatagi	2024-02-27 11:53:09	00:00:34
68	Siddhali Gapate	2024-02-27 11:04:18	00:55:51
69	Sivanageswararao Dodla, AP in	2024-02-27 11:01:41	00:58:28

	UG HS		
70	Sonali Khot	2024-02-27 11:10:35	00:25:31
71	Sowmya sridhar	2024-02-27 10:50:49	01:09:20
72	Sumit dhabale	2024-02-27 11:25:58	00:21:25
73	Suraj Pathan	2024-02-27 11:04:09	00:43:52
74	Tamilarasi k	2024-02-27 11:13:24	00:37:15
75	Umesh Babar	2024-02-27 10:52:05	01:02:24
76	VIGNESH V	2024-02-27 11:27:26	00:25:14
77	Vicky Ram	2024-02-27 11:12:38	00:46:45
78	Vishwajeet Khot	2024-02-27 11:27:05	00:12:37
79	bashir jamadar	2024-02-27 11:28:28	00:31:41
80	gouri Jadhav	2024-02-27 11:11:11	00:24:56
81	j.anugeetham jayaseelan	2024-02-27 10:57:38	01:01:30
82	kirti managave	2024-02-27 11:12:28	00:46:54
83	kishor gurav	2024-02-27 11:05:48	00:38:59
84	sagar fulari	2024-02-27 11:00:00	00:25:44
85	shalfia judit	2024-02-27 11:07:37	00:51:00
86	shruti bam	2024-02-27 10:56:17	01:03:52
87	sneha kumbhar	2024-02-27 11:14:24	00:07:46
88	sundar moorthy	2024-02-27 10:57:08	00:43:45
89	varsha nalawade	2024-02-27 11:19:56	00:37:25

List of participants

Sr. No.	Name of the Student	College Name
1	Vedante Akshay R.	Devchand College Arjunnagar
2	Kengar Nilesh Namdev	Devchand College Arjunnagar
3	Sankpal Amruta Anand	Devchand college Arjunnagar,Nipani
4	Daware Chandrabhaga Shivaji	Devchand college arjunnagar
5	Dr. Tamboli Sikandar Hamid	Shri Yashwantrao Patil Science College, Solankur
6	Hyam Rajeshkumar Shankar	Goa University

7	Mr. Rathod Janardhan Maroti	Vishwasrao Naik Arts Commerce and Baba Naik Science Mahavidyalaya Shirala Dist Sangli
8	Dr. Sneha Suyash Kumbhar	Balasaheb Desai College, Patan
9	Dr. Sneha Suyash Kumbhar	Balasaheb Desai College Patan
10	Mr.Lahu Balkrishna Phadatare	Sanjay GHODAWAT UNIVERSITY Kolhapur
11	Nalawade Varsha Sujit	Rajarambapu Institute of Technology Rajaramnagar
12	Pradnya Madhukar Vibhute	RIT Rajaramnagar
13	Vibhute Pradnya Madhukar	RIT Rajaramnagar
14	Malgaonkar Sunil Vasant	SMDBS College Miraj
15	Kadam Sukadeo Laxman	New Arts,Commerce and Science College, Parner
16	Jagadale Sanika Sanjay	Devchand collage arjunnagar
17	Kale Rajendra Devidas	Tuljaram Chaturchand College, Baramati
18	Pushpa Balkrishna Patil	Sanjay Ghodawat University Atigre
19	Kulkarni rishikesh prabhakar	Devchand college arjunnagar
20	Aditi Dilip Yadav	Aditi Dilip Yadav
21	Prof Kulkarni Sudhir	Doodhsakhar Mahavidyalaya Bidri
22	Kiran Vinayak Madhale	Walchand College of Engineering.Sangli
23	Pathan Suraj Dilavar	Patkar Varde College Goregaon, Mumbai, Maharashtra
24	Pathan Suraj Dilavar	Patkar Varde College Goregaon Mumbai Maharashtra
25	Mulla Bismilla Balekhan	Hon.Shri Annasaheb dange Art's commerce and science college Hatkanangle
26	Managave Kirti Gopinath	Dattajirao Kadam Arts, Science and Commerce College Ichalkaranji
27	Kumbhar Rutuja Hindurao	Devchand College, Arjunnagar
28	Dr Rahul B. Patil	Shri Yashwantrao Patil Science College, Solankur
29	KHOT SAINATH NAMDEV	Devchand college arjunnagar

30	Bhagyasree Avdhut Sutar	Shri. VIJAYASINHA YADAV COLLEGE, PETH VADGAON
31	Jamnik Nita Basavant	Devachand College Arjunnagar
32	Dr. Sivanageswara Rao Dodla	Walchand College of Engineering, Sangli
33	Powar Anil Anandrao	JJT University and Walchand College of Engineering Sangli
34	Ramesh Deokate	VPASC College Baramati
35	Dr.Mrs.Preeti Sunil Joshi	Walchand Institute of Technology,Solapur
36	Dr.T. KRISHNAKUMAR	Paavai Engineering college
37	Lt. Dr. P. Narayanan	Assistant Professor, Department of Physics, Agurchand Manmull Jain College, Chennai - 61
38	Dr J Juliet Josephine Joy	Hindusthan College of engineering and technology
39	V. USHA	University College of Engineering Panruti
40	Dr S Rafi Ahamed	Dhanalakshmi srinivasan University Trichy
41	Dr. S. Gnanam	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
42	Dr. Azeezaa. V	Prathyusha Engineering College
43	M.MOHAMMED ABUBAKKAR	C.ABDUL HAKEEM COLLEGE OF ENGINEERING AND TECHNOLOGY

44	PREETI KUMARI PRASAD	Vels Institute of science, technology & advanced studies (VISTAS)
45	RAJA R	S A ENGINEERING COLLEGE
46	R. MANIGANDAN	PRESIDENCY COLLEGE
47	Shidaling Matteppanavar	KLE Society's Basavaprabhu Kore Arts Science and Commerce College Chikodi
48	Dr. J. Nandhagopal	Thiruvalluvar University
49	Mr. Dinesh Kundlik Dhongade	Balwant College, Vita
50	Nilesh Chougala	KLE TECHNOLOGICAL UNIVERSITY HUBLI
51	Dr. S.SUNDRAMOORTHY	Agni College of Technology Thalambur Chennai
52	Dr N Swarna Sowmya	New Prince SriBhavani college of Engg and Technology
53	Dr. T. Kavitha	Idhaya college for women kumbakonam
54	SUTAR AVDHUT SHIVAJI	Shri. Vijaysinha Yadav College, PethVadgaon
55	Dr. P. Divya	SA ENGINEERING COLLEGE
56	Dr. P. Divya	SA engineering college
57	Dr. Bashir Najir Jamadar	Walchand College of Engineering Sangli
58	Dr.A.Rathika	Stanley College of Engineering and Technology for Women, Abids, Hyderabad
59	Dr. E.Elamuruguporchelvi	Ethiraj College for Women

60	Gh	Gh
61	Dr. M. Ashok Kumar	Saveetha School of Engineering, SIMATS, Chennai
62	Rasika Bharat Ghadage	Balwant college Vita
63	Mr. Avinash Kuber Ladgaonkar	Shri Vijaysinha Yadav College Peth-Vadgaon
64	Patil Jayshri Ravaso Alias Lalaso	Shri Vijaysinha Yadav College Pethvadgaon
65	Vaishali Vinod Mane	Bharati Vidyapeeth Deemed to be University College of Engineering, Pune
66	Chavan Akshay Laxman	Nanasaheb Mahadik College of Engineering, Peth
67	Chavan Akshay Laxman	Nanasaheb Mahadik College of Engineering, Peth
68	MOHD REHAN ANSARI	Department of Electronic Science South Campus University of Delhi
69	Dr. Bobade Chandrakant Ramchandra	Balwant College Vita
70	Kiran Maruti Kamble	KIT ENGINEERING COLLEGE KOLHAPUR
71	Dr. R. Vijayalakshmi	Velammal Institute of Technology
72	Dr. S. Swathi	Agni College of Technology
73	Dr. P.Balakrishnan	Agni College of Technology, Chennai
74	Dr.K.B.Renukadevi	Rajiv Gandhi College of engineering and technology
75	R MADHANRAJ	Global institute of engineering and technology
76	Pore Onkar Chandrakant	Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi
77	Dr. CHIDANAND M KANAMADI	DEVCHAND COLLEGE ARJUNNAGAR

78	Dr BANTESH K BAMMANAVAR	GOVERNMENT POLYTECHNIC, BELAGAVI, KARNATAKA , INDIA
79	Mohite Maithili Tukaram	Devchand College, Arjunnagar
80	Nivetha M	Agni college of technology
81	Amruta Amar Gondhali	Devchand College Arjunnagar
82	Dr.V.Vignesh	Agurchand Manmull Jain College
83	KAWARE PRAJWAL NARAYAN	Devchand collage Arjunnagar
84	Miss. Kiran K. Abitkar	Devchand College, Arjunnagar
85	Snehal Mahadev Bodhale	Devchand College, Arjunnagar
86	Bhosale Namrata Sunil	देवचंद कॉलेज अर्जूनवाड
87	S. VISHNU PRIYA	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
88	S. VISHNU PRIYA	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
89	Ms.Rutuja Ramesh Mali	Sanjay Ghodawat Institute, Atigre
90	BHOSALE AMRAPALI ASHOK	Devchand College Arjunnagar
91	Gundale Dhanashri Gajanan	Devchand College, Arjun nagar
92	VAISHNAVIS	AM Jain college meenambakkam
93	SHARMILA T	A. M. Jain college
94	Mahalakshmi A	Mahalakshmi A
95	Rajendra patil	JES k A Lokapur college
96	Jadhav Asmita Chandrakant	Devchand College Arjunnagar
97	H Pruthivi	Agni college of Technology
98	H Pruthivi	Agni College of Technology
99	Shraddha Anil sakan	Dca
100	Shraddha Anil sakan	Devchand college Arjun nagar

101	Gapate Siddhali Suresh	K.n.bhise college, kurduwadi
102	Genge Supriya Chandrasekhar	Devchand College ,Arjunnagar
103	INGALE YASHODA RAMCHANDRA	Devchand college Arjunnagar, Nippani
104	Patil Shubham Ganesh	K.N.Bhise arts commerce And scienc college Kurduwadi.
105	WALAKI LAXMI DURDUNDESHWAR	Devchand college, Arjunnagar.
106	WALAKI LAXMI DURDUNDESHWAR	Devchand college, Arjunnagar
107	SAIFUDDIN T	A.M.JAIN COLLEGE
108	Dhairiyashil satish Shinde	K n b c college kurudhuwadi
109	Dr S.Renuga	Prathyusha Engineering College
110	S Mukesh	Agni college of technology
111	Dr.M.SIVAKAMI	H.H.THE RAJAH'S COLLEGE, PUDUKKOTTAI
112	Teacher (Assistant Professor)	Holy Cross College (Autonomous), Nagercoil.
113	K TAMILARASI	S.T. Hindu College, Nagercoil
114	A. S. Shalfia Judit	Holy Cross college (autonomous)
115	JANAHIRAMAN A	S.T. Hindu College, Nagercoil
116	K.J.Arun	S.T.Hindu College,Nagercoil
117	Dr.P.B.Nagabalasubramanian	Dr.Kalaignar M.Karunanithi Govt. Institute for Postgraduate Studies and Research, Karakal, Pudhucherry state, India

118	Dr.M.BALACHANDRAMOHAN	ERODE ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
119	Karande Sakshi Dhanaji	K.N.Bhise collage Kurduwadi
120	Godase Anjali Vilas	Shivaji University Kolhapur
121	Dr. G.Anand	M.R.Government Arts College Mannargudi
122	Gunaseelan Kumar	MR.Govt Arts and science college mannargudi
123	P K M. ANU GEETHAM	D.G.GOV'T ARTS COLLEGE FOR WOMEN
124	A.REMILA	Holy Cross College(Autonomous) Nagercoil.
125	RK ASMITHA	Bon Secours Arts and Science College for Women Mannargudi
126	Ms. Sathya R	Agni College of Technology
127	Gapate Siddhali Suresh	K.n.bhise college, kurduwadi
128	Dr. P. DivyA	SA engineering college
129	J.Jenima	Holy Cross College (Autonomous) Nagercoil
130	Mahadik Satish Anandrao	Sanjay Ghodawat University Kolhapur
131	R.Feyolah Herin	Holy Cross College
132	A. S. Shalfia Judit	Holy Cross college (autonomous)
133	Deshmukh Lalita Dhiraj	Ahmednagar college Ahmednagar
134	Prof. (Dr.) Pravin Dnyaneshwar More	Ahmednagar College, Ahmednagar
135	RAGURAMAN.S	M.R.GOV'T ARTS COLLEGE MANNARGUDI

136	Sohel Babulal Shaikh	Department of Medical Physics, Center for Interdisciplinary Research, D. Y. Patil Education Society, Deemed to be University, Kolhapur
137	Dr. Dhale bhushan B.	Gogate Jogalekar college Ratnagiri
138	P.D.Helen Beulah Santhi	Bharathiyar University, Coimbatore
139	Mr.A.MOHAMED HIDAYATHULLAH	AALIM MUHAMMED SALEGH COLLGE OF ENGINEERING
140	JADHAV MAYUR ARJUN	AHMEDNAGAR COLLEGE
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144	T GANESH	Muthurangam Government Arts college Vellore Tamil Nadu
145	Siddhi S Dakave	SRMIST, Kattankulathur
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147	Chougale Nishigandha Bhagwan	Department of physics, Shivaji University Kolhapur
148	Nilima Pravin Jadhav	Raje Ramrao Mahavidyalay, Jath.
149	Dr Balasaheb Bhimarao vhanckhande	Walchand College of Engineering, Sangli.
150	Sayyad Rukaiya Allabaksh	Devachand college Arjunnagar.

151	Ajinkya Mohan More	K.N. Bhise Arts Commerce and Vinayakrao Patil Science College, Bhosare Kurduwadi Tal Madha Dist Solapur
152	Kishor Vishwanath Gurav	Devchand College Arjunnagar
153	Kothavale Vijay Paman	Bhagawati College, Kurukali.
154	NILOFAR NAJIR TASHILDAR	Devchand college arjunnagar
155	KHAVARE SWAPNALI SURESH	Devchand College, Arjunnagar.
156	Patil Shubham Ganesh	K.N.Bhise arts commerce And scienc college, Kurduwadi.
157	Patil Shubham Ganesh	K.N.Bhise arts commerce And scienc college Kurduwadi.
158	Mr.Mohamed Hidayathullah.A	Aalim Muhammed Salegh College of Engineering
159	Gurav Rutuja Nivas	Sanjay ghodawat University
160	Gonugade Madhuri Dadasaheb	Devchand College Arjunnagar
161	Dr Latthe Sanjay Subhash	Vivekanand College Kolhapur
162	Bam Shruti Harish	Vivekanand College, Kolhapur
163	Ekunde Rutuja Anil	Raje Ramrao College Jath
164	Gaikwad Pradip Pandharinath	Raje Ramrao Mahavidyalaya, Jath.
165	Shivani Prakash Patil	Vivekanand College Kolhapur
166	SMIT KALLAPPA JARKOLI	Vivekanand College,Kolhapur
167	Urunkar Trupti Uday	Vivekanand College, Kolhapur
168	Mr. Jundle Akshay Rajaram	Raje Ramrao Mahavidyalaya Jath
169	Ingole Sagar Sudhakar	Raje Ramrao Mahavidyalaya, Jath
170	Gouri Balasaheb Gavade	Vivekanand college kolhapur
171	Mr. Jundle Akshay Rajaram	Raje Ramrao Mahavidyalaya Jath

172	Ingole Sagar Sudhakar	Raje Ramrao Mahavidyalaya Jath
173	Ekunde Rutuja Anil	Raje Ramrao College Jath
174	Ekunde Tanuja Anil	Shivaji University Kolhapur
175	Ekunde Rutuja Anil	Raje Ramrao College Jath
176	Pranali Pradeep Shirke	Vivekanand College, Kolhapur
177	Shinde Abhijeet Vijaykumar	Vivekanand College Kolhapur
178	Redekar Rahul Sambhaji	Department of Physics, Shivaji University Kolhapur
179	MISS. JADHAV SANIKA BAPU	SHIVAJI UNIVERSITY, KOLHAPUR
180	Anurath Saraswati Nagnath Gore	Vivekananda College Kolhapur
181	Dr.S.CHITRA	D.G.Government Arts College for Women
182	Bhosale patil bhushan Subhash	sanjay ghodawat university
183	Miss Jadhav Gouri Govind	Vivekananda college, Kolhapur
184	Kavatagi Shivaraj Chandrakant	Vivekanand College Kolhapur
185	PAWAR SAMBHAJI MAHADEV	Sanjay Ghodawat University Kolhapur
186	Kishor Vinod Patil	Shivaji University Kolhapur
187	Biradar Anand Nagappa	Vivekanand college, Kolhapur
188	Gaikwad Satish Vitthal	M.E.S. Abasaheb Garware College, Pune
189	Sutar Rajaram Shankar	Henan University, China
190	Vasanthakumar R	MRGAC
191	Prasanna M	MRGAC
192	londhe ganesh hambirrao	KN bhise arts commerce and vinayakrao patil science College
193	Dipali Rajaram Ingavale	Devchand college arjunnagar
194	Beaulin Shoja S	S.T. Hindu College

195	Khaire Shital Shivaji	KNB College Kurduwadi
196	Khaire Shital Shivaji	K.N.Bhise College Kurduwadi
197	Mohite Maithili Tukaram	Devchand college, Arjunnagar
198	Gawade Sayali Shantaram	Vivekanand college kolhapur
199	DONGARE RUSHI CHANDRAKANT	Vivekanand College kolhapur
200	Khaire Shital Shivaji	K.N.Bhise College Kurduwadi
201	Dr. Sumayya Isak Inamdar	Vivekanand college Kolhapur
202	S. Rajakumari	TDMNS College, T. Kallikulam
203	G SURESH	DRBCCC HINDU COLLEGE

Certificate Format



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**National Seminar on Applications of Nanoscience
and Nanotechnology**

Certificate

This is to certify that ***Dr Patil Rahul Bharamgonda***
of *Shri Yashwantrao Patil Science College, Solankur* has participated in the National
Seminar on Applications of Nanoscience and Nanotechnology organized by Post Graduate
Department of Physics, Devchand College, Arjunnagar from 26 Feb 2024 to 2 March 2024.


Dr. P. R. Jadhav
Convener


Dr. C. M. Kanamadi
Coordinator


Dr. S. D. Patil
HoD, Physics


Dr. G. D. Ingale
Principal

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