

“Dissemination of Education for Knowledge, Science and Culture”

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Empowered Autonomous)

Full Report on
Guest Lecture on
“Renewable Energy Sources”

Organized by

Department of Physics

On

Day, Date & Time: Saturday, 11th November 2023 at 12.30 – 01.30 PM

Submitted by

Dr. Sanjay S. Latthe

Head of the Department,

Department of Physics, Vivekanand College, Kolhapur (Empowered Autonomous)

Submitted to

Internal Quality Assurance Cell (IQAC)

Vivekanand College, Kolhapur (Empowered Autonomous)

(2023 – 24)

Table of Information

| Sr. No. | Content | Numbers |
|---------|---------------------|---------|
| 01 | Total Participants | 37 |
| 02 | Female Participants | 15 |
| 03 | Male Participants | 22 |

Notice

*“Dissemination of Education for Knowledge, Science and Culture”
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(Empowered Autonomous)

Department of Physics

Notice

Date: Wednesday, 08th November 2023

It is hereby informed to all the students of B.Sc. – III, M.Sc.- I and II (Physics) that a guest lecture on “Renewable Energy Sources” is organized by Department of Physics on Saturday, 11th November 2023 at 12.30 PM. A resource person is Dr. Pravin Kharade, Department of Physics, Shankarrao Mohite Mahavidyala, Akuj, Maharashtra, India will be delivering the guest lecture. All the students should present on time. Refreshments will be provided at the end of guest lecture.

sslatthe

Dr. Sanjay S. Latthe

HEAD

**DEPARTMENT OF PHYSICS
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)**

Curriculum Vitae

Name: Dr. Pravin Mahadeo Kharade

A/P: Wadhegaon

Tal- Sangola,

Dist- Solapur (MH), India

Pin Code- 413 307

Mobile: +91-9284821057

E-mail: pravink150@gmail.com

Date of birth: 17/07/1988

Caste: Open (Hindu-Maratha)

Category: Economically Weaker Section (EWS)

Nationality: Indian



GENERAL INFORMATION:

1) **Sex:** Male

2) **Marital status:** Married

3) **Blood group:** O +ve

3) **Career Objective:** Research & Teaching

4) **Languages Known:** English, Hindi and Marathi

5) **Hobbies & interests:** Reading, Listening to Music, Playing cricket

EDUCATIONAL QUALIFICATION

| Exam. Passed | Year of Passing | Board / University | Subject Offered | % of Marks | Remark |
|--------------|-----------------|-----------------------------|-----------------|------------|------------------------------|
| Ph.D. | 2017 | Solapur University, Solapur | Physics | -- | Awarded |
| M. Sc. | 2011 | Solapur University, Solapur | Physics | 56.83 | Second class |
| B.Sc. | 2009 | Solapur University, Solapur | Physics | 70 | First class with distinction |
| H. Sc. | 2006 | Pune board | PCMB | 58.00 | Second class |
| S.S.C. | 2004 | Pune board | All | 73.73 | First class with distinction |

Title of Thesis:- “SYNTHESIS AND CHARACTERIZATION OF POLYANILINE, POLYPYRROLE, MnO_2 , Cr_2O_3 AND THEIR BI-LAYER HETEROSTRUCTURES FOR SUPERCAPACITOR APPLICATION”.

Guide Name: Dr. D. J. Salunkhe
Nano-Composite Research Laboratory,
Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur

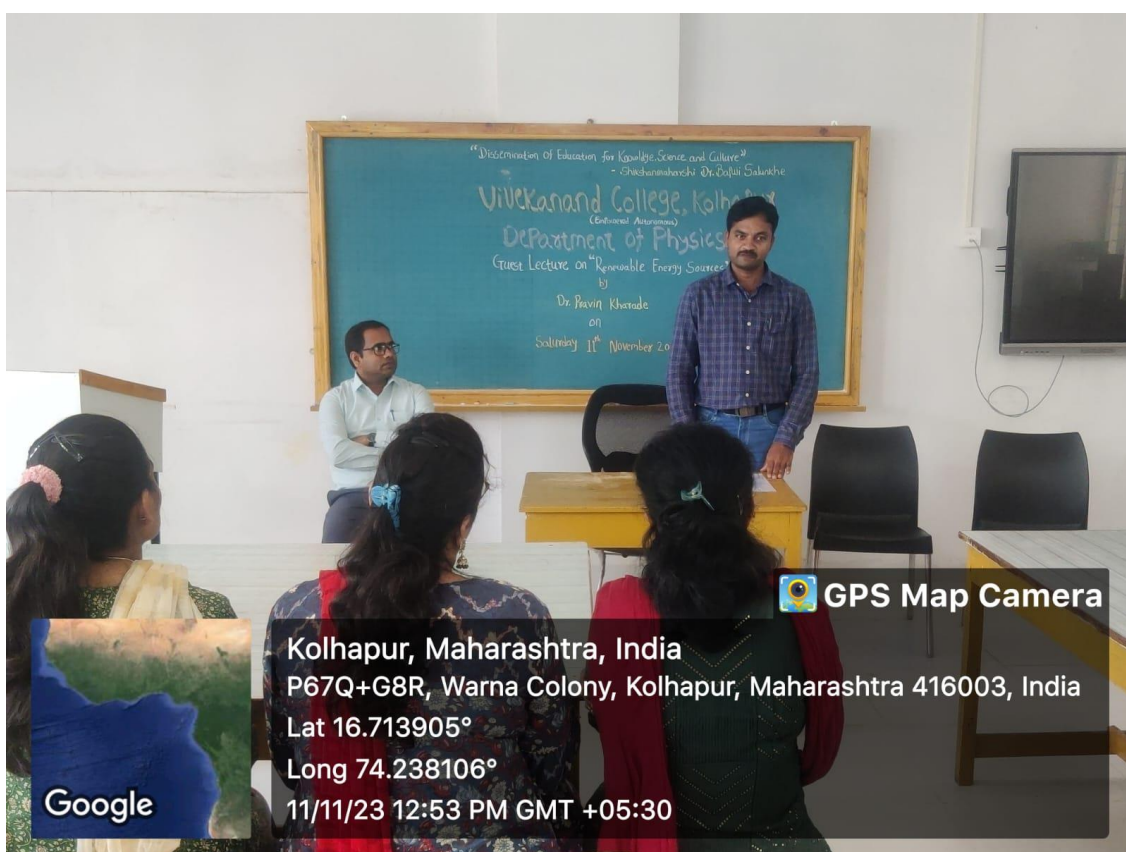
Research Experience:

- ❖ **Synthesis of polymer and metal oxide thin films (2017 to date)**
- ❖ **Teaching experience: 11 years**
 - Two year teaching experience at Vidnyan Mahavidyalaya, Sangola **(During 2011-12 and 2012-2013)**
 - Four year teaching experience at Sangola College, Sangola **(During 2013-14 to 2016-2017)**
 - Three Months teaching experience at Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur **(13-12-2014 to 28-02-2015)**
 - Five years teaching experience at Shankarrao Mohite Mahavidyalaya, Akhuj **(During 2017-2018 to till date)**

❖ **List of Publications**

| A) | Paper Published / Accepted to the cited National / International Journals |
|-------------|--|
| 2022 | |
| [1] | P. M. Kharade , J. V. Thombare, S. S. Dhasade, S. S. Deokar, D. J. Salunkhe, M. S. Tamboli, S.S. Patil, Spongy-Network-like Polyaniline Thin Films as Electrodes for a Supercapacitor, Micro (2022) 2, 541–548. |
| [2] | Swati D. Patil, Sagar. M. Mane, Pravin M. Kharade , Jagannath V. Thombare, Rajendra S. Gaikwad, Manish P. Tirpude, Jae Cheol Shin, Shankar S. Dhasade, and Hyo Jin Kim, FTIR and Electrical Properties of Cr Substituted $Li_{0.5}Fe_{2.5-x}O_4$ Synthesized Using Sol-Gel Auto Combustion, ECS Journal of Solid State Science and Technology (2022) 11 054010. |
| [3] | P. M. Kharade , J. V. Thombare, S. S. Dhasade, S. D. Patil, P .B. Abhange, D. J. Salunkhe, Electrodeposited Nanoleaves (NLs) like Mn_3O_4 thin film for electrochemical supercapacitor, International |

Photographs during the Program







Attendance

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Department of Physics

Guest Lecture on “Renewable Energy Sources”

by

Dr. Pravin Kharade

Department of Physics, Shankarrao Mohite Mahavidyala, Akluj, Maharashtra, India.

on

Saturday, 11th November 2023

Attendance Sheet

| Sr. No. | Name of the Student / Staff | Class | Signature |
|---------|------------------------------|-----------|-----------|
| 1) | Mr. Sachin Ingale | staff | |
| 2) | Mr. Rohit Ekol | Staff | |
| 3) | Mr. Ranjit Kharade | Staff | |
| 4) | Dr. N. A. Narewadikar | staff | |
| 5) | Dr. Trupti U. Urunkar | staff. | |
| 6) | Miss. Sayali S. Gawade | Staff | |
| 7) | Miss. Gouri G. Jadhav | staff | |
| 8) | Miss. Shivani P. Patil | Staff | |
| 9) | Mr. Abhijeet V. Shinde | Staff | |
| 10) | Mr. Pundalik B. Hare | staff | |
| 11) | Mr. Prashant M. Patil | Staff | |
| 12) | Mr. Anand N. Gore | u | |
| 13) | Rachindra Chankalekar Dongre | B.E. IT | |
| 14) | Shrirang Bhagawan Kambale | B.Sc. F.Y | |
| 15) | Siddhant Sechin Bandyke | B.E. F.Y | |
| 16) | Sahil Shivaji Tamape | B.Sc. F.Y | |

| | | | |
|-----|------------------------|---------------------------|------------------|
| 17) | Sakshi Raji Biranje | B.Sc. SY | S. Biranje |
| 18) | Riya D. Patil | B.Sc. SY | R. Patil |
| 19) | Sumekha T. Desai | B.Sc. SY | S. Desai |
| 20) | Shreyashree S. Demanna | B.Sc. SY | S. Demanna |
| 21) | Shreeya Pravin Patil | B.Sc. F | S. Patil |
| 22) | Dr. N. A. Narawadiwar | statts | N. A. |
| 23) | Krushna Mane | B.Sc. - I | B. Mane |
| 24) | Divyani Patil | - II - | D. Patil |
| 25) | Rishiraj Supale | Research st ^{dy} | R. Supale |
| 26) | Mr. Atish S. Tangwade | Faculty | A. S. |
| 27) | Mr. Rohit A. Eku | Faculty | R. A. |
| 28) | Mr. Sachin Ingale | Faculty | S. Ingale |
| 29) | Miss. A. K. Bhosale | Faculty | A. K. |
| 30) | Miss. R. S. Pandhare | Faculty | R. S. Pandhare |
| 31) | Miss. R. M. Patil | Faculty | R. M. Patil |
| 32) | Mr. A. A. Pawar | Faculty | Pawar, A. A. |
| 33) | Ms. A. M. Makandekar | Faculty | A. M. Makandekar |
| 34) | Mr. J. G. Jone | - II - | J. G. |
| 35) | Mr. K. D. Pujari | Faculty | K. D. Pujari |
| 36) | Mr. Rishant A. Jethar | students | R. A. Jethar |
| 37) | Dr. S. S. Lathhe | Faculty | S. S. Lathhe |
| 38) | | | |
| 39) | | | |
| 40) | | | |
| 41) | | | |
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| 45) | | | |
| 46) | | | |

One Page Report

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Shri Swami Vivekanand Shikshan Sanstha's



Vivekanand College, Kolhapur (Empowered Autonomous)



Department of Physics

One Page Report

| | | | | | | | | | | | | | | | | | |
|---------------------------------|---|----------|-----------|----|----|--------|----|----------|------|----|----|--------|----|--------------|--|--|-----------|
| Name of the Department | Department of Physics | | | | | | | | | | | | | | | | |
| Name of the Activity | Guest Lecture on “Renewable Energy Sources” | | | | | | | | | | | | | | | | |
| Date / Duration | Saturday, 11 th November 2023 at 12.30 PM to 01.30 PM | | | | | | | | | | | | | | | | |
| Aims and Objectives | Renewable energy is energy derived from natural sources that are replenished at a higher rate than they are consumed. Sunlight and wind are such sources that are constantly being replenished. Renewable energy sources are plentiful and all around us which are cheaper in most countries, and generate 3 times more jobs than fossil fuels. | | | | | | | | | | | | | | | | |
| No. of Beneficiaries | <table border="1"><tr><td rowspan="2">Teachers</td><td>Male</td><td>15</td><td rowspan="2">24</td></tr><tr><td>Female</td><td>09</td></tr><tr><td rowspan="2">Students</td><td>Male</td><td>07</td><td rowspan="2">13</td></tr><tr><td>Female</td><td>06</td></tr><tr><td colspan="3" style="text-align: right;">Total</td><td>37</td></tr></table> | Teachers | Male | 15 | 24 | Female | 09 | Students | Male | 07 | 13 | Female | 06 | Total | | | 37 |
| Teachers | Male | | 15 | 24 | | | | | | | | | | | | | |
| | Female | 09 | | | | | | | | | | | | | | | |
| Students | Male | 07 | 13 | | | | | | | | | | | | | | |
| | Female | 06 | | | | | | | | | | | | | | | |
| Total | | | 37 | | | | | | | | | | | | | | |
| Expenditure and Fundings | College Funds | | | | | | | | | | | | | | | | |
| Brief Discussion | Dr. Pravin Kharade, Department of Physics, Shankarrao Mohite Mahavidyala, Akluj, Maharashtra, India have discussed on ‘Renewable Energy Sources’ to the students and faculty. He said in lecture that fossil fuels - coal, oil and gas are non-renewable resources that take hundreds of millions of years to form. Fossil fuels, when burned to produce energy, cause harmful greenhouse gas emissions, such as carbon dioxide. Generating renewable energy creates far lower emissions than burning fossil fuels. Renewable energy is key to addressing the climate crisis. Dr. Sanjay S. Latthe welcomed Dr. Pravin Kharade and Mr. Abhijit Shinde has given vote of thanks. | | | | | | | | | | | | | | | | |
| Outcomes | Students got useful information on renewable energy sources and their possible practical uses in day-to-day life. | | | | | | | | | | | | | | | | |

sslattice

Dr. Sanjay S. Latthe

HEAD

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