



**SHRI SHIVAJI SCIENCE AND ARTS COLLEGE
CHIKHLI, DIST. BULDANA**



ANNUAL REPORT: 2021-22



Shri Shivaji Education Society Amravati's
Shri Shivaji Science & Arts College
Chikhli, Dist. Buldana- 443201(MS).

DEPARTMENT OF PHYSICS

Annual Report-2021-22

Department of Physics organized several co-curricular activities to enhance and explore the recent knowledge in various aspects of Physics during the session 2021-22.

1) Department Activities:

Faculty members of Physics Department actively organised following activities to enrich students' knowledge during academic session 2021-2022.

- i) Raman Lecture Series: Raman Lecture Series is organized by Department of Physics every year on the occasion of National Science Day 28th February 2022
- ii) Quiz Competition: This Competition is organized by Department of Physics on the occasion of National Science Day 28th February 2022.
- iii) District Level Model Making Competition on dated 07/05/2022.
- iv) Awareness Program IPR and Patenting System on dated 13th January 2022.
- v) National Workshop on, Use of the Virtual Laboratory in Teaching and Learning, Date: 09/08/2021 to 10/08/2021
- vi) Bridge Course in Physics Practical
- vii) Add on Course in nanotechnology
- viii) Add on Course in Renewable Energy Sources

2) Use of Online Teaching-Learning Tools:

The teaching Faculty of the department various online teaching tools to deliver lectures for B.Sc. classes. Faculty members used following online for effective teaching & learning.

- i) Amrita University Virtual Laboratory to teach basic concepts of B.Sc.-I Practicals (Bridge Course).
- ii) Google Classroom to provide Study Material & Question Bank for B.Sc.-I (Class Code: ku6ba5c), B.Sc.-II (Class Code: l6qiph & B.Sc.-III (Class Code: b4hy5i2) students.

3) Participation of Seminar, Workshop & Conferences:

Sr. No.	Name of Teacher	Conference/Seminar/Workshops	National/International/State level/University level
1	Dr. P. B. Nalle	1. International Conference on "New Horizon in Materials Science and Nanotechnology (ICNHMSN 2022)" 2. Current Research in Chemistry and Nanosciences (CRCNS-2022)	International International

4) Paper Presented/Published in National/International/Journals/Proceedings with ISBN/ISSN:

Sr. No.	Name of Teacher	Title of Paper presented/Published	National/International/Journal Proceedings	ISBN/ISSN
1	N. B. Thakare	1. Synthesis and Nonlinear Optical Absorption of L-Valine Capped Zn-Doped MgO Nanoparticles 2. Optical Klystron Undulator Radiation with Electromagnetic Wave Undulator	1. Macromolecular Symposia Volume 400, Issue 1, 22 December 2021 Impact Factor:0.6 2. Journal of Physics: Conference Series 2070 012041	---
2	Dr. P. B. Nalle	1. Studies on Molecular Interaction in Enriched Antioxidant Officinale Zingiber with MgCl ₂ through Ultrasonic Interferometer (Abstract) 2. Viscosity, Density and Ultrasonic Study of Officinale Zingiber with ZnCl ₂ at 318.15 K	Proceedings Proceedings	---- ----
3	P. P. Padghan	1. Effect of digital filtering on the analysis of surface deformations using electronic speckle pattern interferometer	International Proceedings	978-0- 7354-4121- 7
		2. Electronic Speckle Pattern Interference technique for measuring thickness of metallic nano thin films	International Proceedings	2214- 7853

5) Students Achievements/Participation in Workshop Seminar/Award:

Sr. No.	Name of Student	Participation in Workshop/Seminar/ Competition	Award
1	Mr. Sachin Surushe Mr. Bhushan Kale Mr. Pratik Hatekar	5 th National Level Lonar Science Festival	2 nd Prize
2	Miss. Rutuja Dayaje	5 th National Level Lonar Science Festival	---
3	Miss. Pooja Todekar	District Level Model Making Competition	Consolation

6) Best Practice:

- i) Bridge Course in Physics Practical was organized for the B.Sc. First Year Students
- ii) Model Making Competition: District Level Model Making Competition organized by Department of Physics, Shri Shivaji Science and Arts College, Chikhli Dist- Buldana sponsored by Miss. Y. T. Suradkar.

7) Extension Activities:

- i) Raman Lecture Series: Raman Lecture Series is organized by Department of Physics every year on the occasion of National Science Day.
- ii) Quiz Competition: This Competition is organized by Department of Physics every year.


Head of Physics Department
Shri Shivaji Science & Arts Coll
CHIKHLI




Principal
Shri Shivaji Sci. & Arts
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