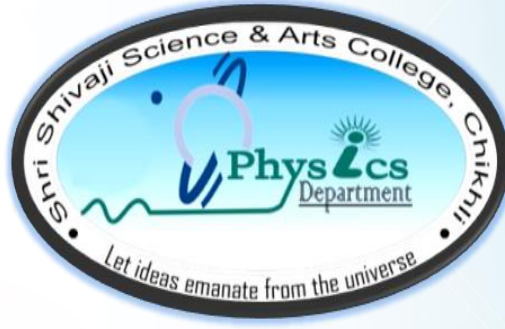




Shri Shivaji Education Society Amravati's
SHRI SHIVAJI SCIENCE AND ARTS COLLEGE
CHIKHLI, DIST. BULDANA



ANNUAL REPORT: 2020-21

Department of Physics

Department of Physics organized several co-curricular activities to enhance and explore the recent knowledge in various aspects of Physics during the session 2020-21.

Guest lecture:

A guest lecture was organized by Physics Association on the occasion of National Science Day. Dr. K. M. Alti, Associate Professor, Department of Physics, Institute of Science; Nagpur has delivered a guest lecture on "Fun with Optics". He has explained optical phenomenon in daily life with several examples. 92 students of B.Sc. classes attended this online lecture.

Department Activities:

Faculty members of Physics Department actively organised following activities to enrich students' knowledge during academic session 2020-2021.

1. National Webinar on Career Opportunities in Physical and Mathematical Sciences
(Date:29/07/2020)
2. Online C. V. Raman Lecture Series on Concept of Modern Physics (22/02/2021 to 27/02/2021)
3. State Level General Knowledge Quiz Competition (26/02/2021)
4. Online Science Quiz competition for B.Sc. students. (28/02/2021)
5. Online Inauguration Of Physics Association (01/03/2021)
6. Webinar on fun with optics (01/03/2021)
7. Question bank with MCQ for B.Sc. students.

Use of Online Teaching-Learning Tools:

The teaching Faculty of the department various online teaching tools to deliver lectures for BSc 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) Conducted online lectures of B.Sc.-I, B.Sc.-II & B.Sc.-III, run by Shri Shivaji Education Society Amravati through LMS system.
- iii) ZOOM platform to conduct online lectures of B.Sc.-I & B.Sc.-III.
- iv) 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.

Participation of Seminar, Workshop & Conferences

- 1) Dr. P. P. Padghan, attended national conference on physics and chemistry of materials (NCPCM-2020) organised by Department of Physics, Govt. Holkar Science College, Indore. 14-16 Dec. 2020.
- 2) Dr. D. N. Bhojar attended International Web Conference on Advanced Materials Science & Nanotechnology organized by Department of Physics, Vinayak Vidnyan Mahavidyalaya, Nandgoan Khandeshwar, Dist. Amravati (M.S.) India. 20-21 June 2020

Book/ Chapter in Book:

- 1) Dr. P. P. Padghan published 2 chapters as a Co-author in emerging trends in science and technology (ISBN No.: 978-81-951982-2-1)
- 2) Dr. P. B. Nalle published a chapter in book Science in Energy, Rushi Publication, ISBN No: 978-81-929628-3-2

Research Publications:

- 1) Dhananjay N. Bhojar, Sandeep B. Somvanshi, P. B. Nalle, V. K. Mande, A. A. Pandit, K. M. Jadhav, Journal of Physics, IOP Publishing: Multiferroic Fe³⁺ ion doped BaTiO₃ Perovskite Nanoceramics: Structural, Optical Electrical and Dielectric Investigations
- 2) S. S. Kale, P.P. Padghan and P. B. Nalle, B. Aadhar' International Peer Reviewed Indexed Research Journal: Review Article on Impact of COVID -19 Pandemic on Education, Employment, Culture and Human Health in World
- 3) Sangita Shinde, Pallavi Nalle, Qudari F. B., B. Aadhar' International Peer Reviewed Indexed Research Journal: Impact of COVID – 19 on the Teaching and Learning of Science in Higher Education.
- 4) Pallavi B. Nalle, Sangita Shinde, Mangesh Manke, S. S. Kale, B. Aadhar' International Peer Reviewed Indexed Research Journal