

Best Practices for holistic development of students

Students' Centred Learning



Students boarding to Gadchiroli for VUPTA Seminars Feb 2024



Winner students of VUPTA Seminars with Pro VC Gadchiroli University Feb 2024



Students with the Power supply designed by them



B Sc I student Yugansh Kanoje recognized for innovation at RSC

आयेशा जुबीन व अनन्या सुळाखे यांना सुवर्णपदक

लोकशाही वार्ता/नागपूर
श्री शिवाजी शिक्षण संस्था, अमरावतीचे संवाहक विद्यार्थ्यांमध्ये उत्कृष्ट कामगिरी सादर करणाऱ्या विद्यार्थ्यांना सुवर्णपदक देण्यात येते. यावेळी आयेशा जुबीन व अनन्या सुळाखे यांना सुवर्णपदक देण्यात आले. यावेळी उपस्थित असलेल्या मान्यवरांच्या हस्ते पदक देण्यात आले. यावेळी उपस्थित असलेल्या मान्यवरांच्या हस्ते पदक देण्यात आले. यावेळी उपस्थित असलेल्या मान्यवरांच्या हस्ते पदक देण्यात आले.



Students with innovative project DSC in competition

Shivaji Space Explorer Club



Parth Hedau (AIR-587) and Anuj Khapekar (AIR-1637) brought laurels in JAM Examination & NGPE (top 20)

e-Resource for Students

Students undergo these courses every year with a free coupon

- A Boot Camp to Nuclear Physics**
A course for Nuclear Physics learning aspirants
Shyamkant Anwane
4.5 ★★★★★ (149)
9 total hours - 47 lectures - Beginner
- A Bootcamp to Complex Analysis**
An introduction to the theory of complex functions of a complex variable
Shyamkant Anwane
4.9 ★★★★★ (3)
9 total hours - 40 lectures - Beginner
- A Boot Camp to Special Theory of Relativity**
A First course in understanding space, time in view of absoluteness of space
Shyamkant Anwane
4.4 ★★★★★ (109)
8 total hours - 26 lectures - Beginner
- Bootcamp to Relativistic Quantum Mechanics**
A framework that paves way to Quantum Electrodynamics (QED) and Particles
Shyamkant Anwane
4.9 ★★★★★ (21)
4 total hours - 5 lectures - All Levels



Year of Establishment 1967

Shri Shivaji Education Society Amravati's Science College

Congress Nagar, Nagpur-12

A+ Grade with 3.51 CGPA, CPE Beneficiary Department, Centre for Higher Learning



DEPARTMENT OF PHYSICS



National Level Webinar by Sreerup Roychauchary (TIFR)

THE TIMES OF INDIA, NAGPUR MONDAY, SEPTEMBER 9, 2024

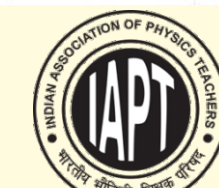
Workshop on NEP cited by Tol

Shivaji Sci College physics dept holds 2-day workshop

The department of physics of Shivaji Science College, Congress Nagar, in association with Indian Association of Physics Teachers, Vidarbha, conducted a two-day workshop on 'Computer Interfaced Physics Experiments using ExpEyes-17/SeeLab 3'. The workshop aligned with the updated syllabus introduced by Nagpur University under NEP-2020. The event was attended by chief guest Devram Nandanwar, ex-BOS chairman (phy) and Principal OS Deshmukh, and convener Prof SW Anwane, HoD. Special guest was Prashant Ambekar, VP of Dharampeth Science College.

IAPT conducts one-day natl seminar in online mode

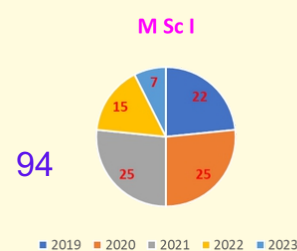
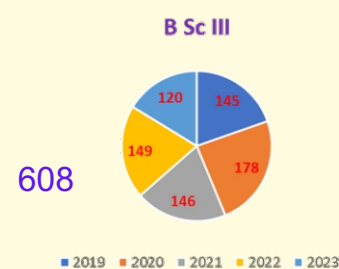
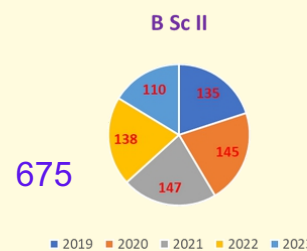
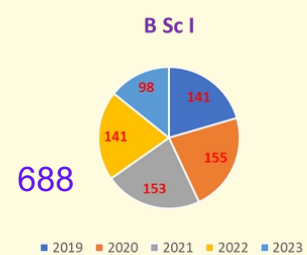
Indian Association of Physics Teachers (IAPT) and Shri Shivaji Science College conducted one-day national seminar in online mode on the topic 'SN Bose's Life & Work'. Prof PK Ahluwalia, president of IAPT was chief speaker, while the guest of honour was Prof Mahendra Dhore, principal of Shivaji Science College. Prof Sreerup Raychaudhuri of TIFR Mumbai, Rajinder Moudgil of Kurukshetra University, and Prof RM Shewale were other speakers. Ahluwalia announced the office-bearers of sub regional council for Vidarbha under the presidency of Shyamkant Anwane, of Science College. A quiz marked the end of the seminar. Certificates were issued to the participants in online mode. Anwane expressed gratitude to the dignitaries while Halim Ahamad, secretary of SRC, proposed a vote of thanks. Gajanan Jadhav, treasurer anchored the seminar.



Local Chapter College ID 6289

4-Courses

Programmes offered: B.Sc., M.Sc., Ph.D.

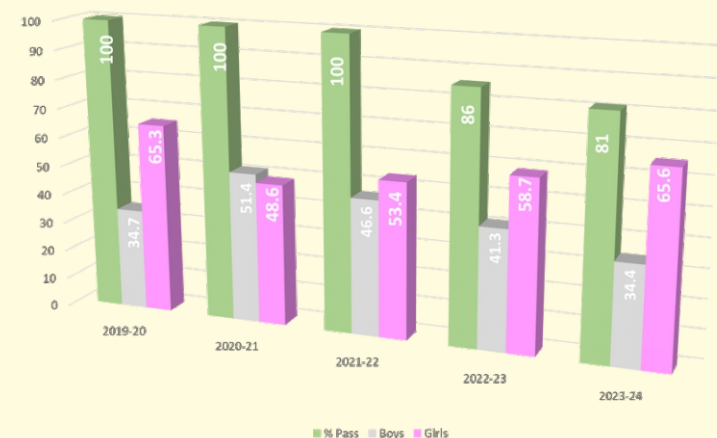


Yash Choube secured 2nd and 3rd Merit position in RTMNU 2024 M.Sc. Examination.

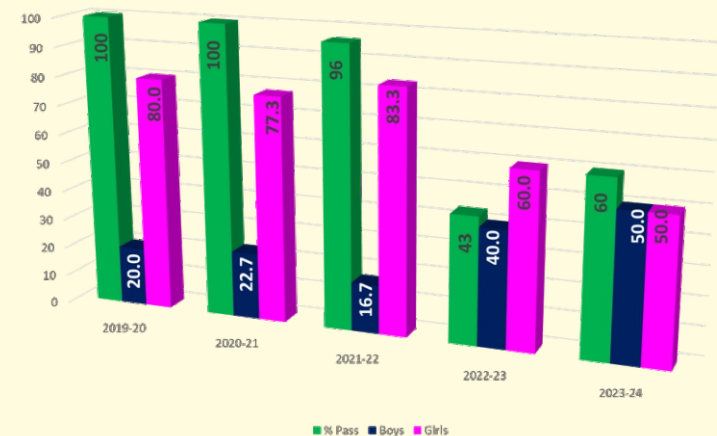


Prerna Ambade

B.Sc. Final Results % Pass, % Boys, % Girls, Distinction



M.Sc. Final Results % Pass, % Boys, % Girls, Distinction



At the Center of Higher Learning

04 AWARDED Ph.D. Degree

- Sumedha Jayantrao Tamboli
- Manohar Dadarao Mehare
- RuhiNaz Muzammil Ali Nayyar
- Karan Kumar Gupta

02 WORKING

- Chalpe Ruchir Kumar
- Amrapali Bhaurao Patil

University Examination Merits

- Ku. Neelam S. Singh (6th Position) 2019
- Ku. Lokita P. Patle (1st Position) 2020
- Ku. Tejashwini U. Soni (8th Position) 2020
- Ku. Grishma A. Ninave (10th Position) 2020
- Ku. Ashlesha S. Goswami (9th Position) 2021
- Ku. Khushboo K. Kolhe (7th Position) 2023

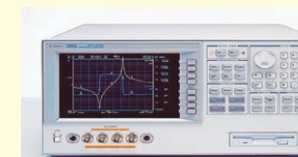
Sanctioned Posts =08, Permanent Faculty = 07

Ad-hoc=03, Contributory Staff = 01

	Name of Faculty	Qualifications	Designation	Experience
1.	Dr. S.W. Anwane	Ph.D.	Professor	25
2.	Dr. Mrs. R. N. Pathare	Ph.D.	Asst. Prof.	19
3.	Dr. Mrs. S. V. Khangar	Ph.D.	Asst. Prof.	10
4.	Mr. B. T. Kumbhare	M.Sc., SET	Asst. Prof.	11
5.	Dr. Mrs. S. K. Sayyad	Ph.D.	Asst. Prof.	07
6.	Mr. P.A. Bramhankar	M.Sc., SET	Asst. Prof.	05
7.	Dr. G.L. Jadhav	Ph.D.	Asst. Prof.	05
8.	Dr. S. R. Daf	Ph.D. , SET	Ad-hoc	04
9.	Ms. K. B. Jivnapurkar	M.Sc., SET	Ad-hoc	02
10.	Ms. C. P. Jatgade	M.Sc.	Ad-hoc	02
11.	Dr. Priyanka Virutkar	Ph.D.	CHB	09

Major Equipments worth Rs 60 Lacs

- Agilent IMPEDANCE ANALYZER 4294A (worth Rs 15 Lacs)
- Bruker Alpha FTIR (worth Rs 9 Lacs)
- Shimadzu Spectrofluorometer RF 5301PC (worth Rs 10 Lacs)
- Shimadzu UV VIS Spectrophotometer UV-1800 (worth Rs 6 Lacs)
- MAPLE Computing Laboratory (worth Rs 10 Lacs).
- Furnaces with PID Temperature Controllers for material Preparation
- 10" Dobsonian Telescope
- Hydrothermal AUTOCLAVE Utensil with Teflon Cap Auto 100X
- High Temperature Muffle Furnace -14000C (worth Rs. 1.5 Lacs)
- Consultancy on characterizations of 400 samples since 2021-22

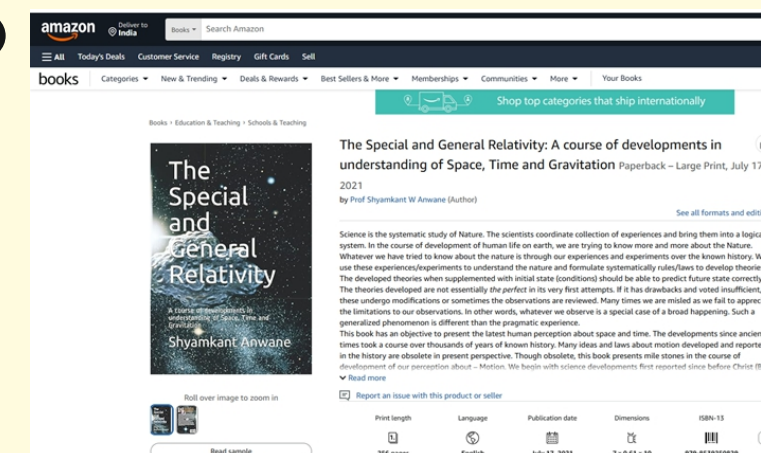


Research Grant received:

34 Lacs in Pre-assessment and 3 Lacs in Assessment Period

Publications during 2019-24

- Patents: 01
- Books: 08
- SCOPUS: 22
- UGC care listed: 12
- Total Citations: 467
- National Research Articles: 08
- International Research Article: 01
- NPTEL/SWAYAM Courses: 10
- COURSERA: 03



Students Achievements

VUPTA seminar VIDARBHA Level: Bagged : 3 prizes in 2022, 7 prizes in 2023, 4 prizes in 2024.
 In last 5 yrs: 6 students cleared SET, 2 students cleared GATE, 2 students cleared JAM examination.
 In RTM Nagpur University examination: In last 5 years our 2 students awarded with Gold medal, 1 student awarded with Silver medal and 1 Bronze medal.
 In university level research/innovation festival - 2 students bagged 1st prize in Avishkar 2024.

Physics Society for Holistic Development

	Guest Lectures	Webinars	Workshop	Students Seminars
2019-20	02	--	--	01
2020-21	--	01	--	01(online)
2021-22	03	01	--	01
2022-23	03	01	01	01
2023-24	02	01 National	01 University	01

Visits: (i) Raj Bhawan Nagpur (ii) ARIES (an acronym of Aryabhata Research Institute of Observational Sciences) (iii) ISCA Exhibition 2023 (iv) Raman Science Innovation Expo (v) RRSC, Nagpur (vi) NEERI, Nagpur

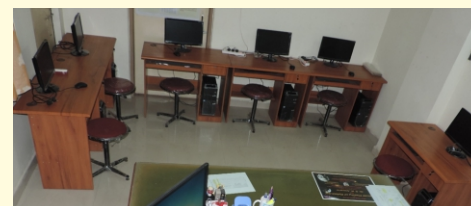
Memorandum of Understanding (MoU)

- V S Informatics Nagpur
- Department of Physics, Mohata Science College, Nagpur
- Central India Fire & Safety Research Centre Nagpur
- Department of Physics, Vidya Bharati Mahavidyala, Amravati



Add-on Courses (681 beneficiary students)

- Certificate Courses on Physics behind Green Synthesis of Nanoparticles from Medicinal Leaves
- Fundamentals of Electronic D.C. Power Supply
- Advanced Ceramics and Composites for PG Students
- Course on Dobsonian Telescope Design, Construction and Use,
- Exploration in Astronomy



CoC Courses (266 beneficiary students)

Mathematical Modelling using Maple UGC Funded (RTM-NU Approved)

Yr	Students	Yr	Students	Yr	Students
2013-14	24	2015-16	15	2017-18	15+17=32
2014-15	19	2016-17	11	2018-19	17+27=44
				2019-20	100

Alumnus

Glorious Alumni of Department of Physics



DR. ASHISH MAHABAL
Deputy Director,
Center for Data Driven Discovery
California Institute of Technology, USA



MALHAR R. KENDURKAR
Observational Astronomer
Dominion Astrophysical
Observatory CANADA



PROF. SHILPA PANDE
Professor
Laxminarayan Innovation Technological
University, Nagpur



DR. BHAVANA BUTEY
Professor
G. H. Raisoni
College of Engineering



DR. VISHWAJIT M. GAIKWAD
Assistant Professor,
Amolakchand Mahavidyalaya,
Yavatmal



PROF. LEENA GAHANE
Ex Deputy Advisor,
NAAC Anjuman College
of Engineering and
Technology Nagpur



LT. ANUJ GHATATE
Lieutenant
Indian Army



DR. ASHISH ANILRAO DESHMUKH
Postdoctoral Research Associate
St. Jude Children's Research
Hospital, Memphis (TN), USA
Ph.D. IISc, Bangalore CSIR NET
JRF - AIR104, GATE

Heritage of Physics Department



From Left: Prof. T. J. Telrandhe, Prof. D. R. Bahekar, Prof. S. W. Gawande, Prof. R. G. Kale, Prof. M.T. Dharmadhikari, Prof. D. W. Khade, Dr. J. M. Khobragade, Prof. A. M. Band

Prominent Visitors during last 5 Years

- Dr. Ashish Mahabal, Deputy Director of Centre for Data Driven discovery at Caltech, USA
- Dr. N. Subramanyam, Senior Scientist, Chief General Manager (Rtd.), ISRO
- Dr. B. K. Deshmukh, Scientist, Dow Chemicals, USA
- Dr. Virendra Yadav, ARIES, Nainital
- Dr. Sanjeev Moharil, Ex-Professor & Head, Department of Physics, RTMNU, Nagpur
- Dr. Vilas A. Tabhane, Retired Professor, Department of Physics, Pune University, Pune
- Dr. N. S. Gajbhiye, Retd Professor, IIT Kanpur and office bearer of NASI, Kanpur

Prominent Visitors



N Sivasubramanian (ISRO) with students



Dr. B. K. Deshmukh, Scientist, Dow Chemicals, USA



Dr. N. S. Gajbhiye, Retd Professor, IIT Kanpur



Dr Vilas Tabhane, Professor of Physics, Pune University

Students Centric Activities



OJT Awareness Programme



NEP Orientation Workshop of EXPEyes Kit (Aug 2024)



Prof S B Kondawar delivering lecture under Physics Society



Materials Characterization for Projects

Glimpses of Activities



Visit to ARIES Lab Nainital



Dr. B. K. Deshmukh, Scientist, Dow Chemicals, USA



Group Photo with N Sivaswami Subramanian



MAPLE Certificates being awarded on 15th Aug 2019



Formal photo after installation of Physics Society



Dr Ashish Mahabal (CALTECH, USA)-Alumni

Progression & Placement

19 Students are DST-INSPIRE Scholarship Holders

- 2023-2024** 1 Mr. Yash Shriprakash Chaube M.Sc. Physics
- 2022-2023** 1 Mr. Yash Shriprakash Chaube B.Sc.
- 2021-2022** 1 Yash Shriprakash Chaube B.Sc.
2 Mr. Khemant Uparikar B.Sc.
3 Miss. Aishwarya Shriram Bodhe
4 Mr. Sanket Vishnu Mehatre B.Sc.
5 Mr. Anuj Mangesh Khapekar B.Sc.
6 Miss. Khushi Rajech Yadav B.Sc.
- 2020-2021** 1 Yash Shriprakash Chaube B.Sc.
2 Mr. Khemant Uparikar B.Sc.
3 Mr. Sanket Vishnu Mehatre B.Sc.
4 Miss. Khushi Rajech Yadav B.Sc.
5 Mr. Anuj Mangesh Khapekar B.Sc.
- 2019-2020** 1 Mr. Yash Shriprakash Chaube B.Sc.
2 Miss. Lokita Parmanand Patle B.Sc.
3 Mr. Mayuresh Dhanraj Joshi B.Sc.
4 Mr. Anuj Mangesh Khapekar B.Sc.
5 Mr. Khemant Uparikar B.Sc.

Name	Y of Pass	Moved to
Ishika Zarbade	S 2023	IIM-Amritsar
Vinod Pazare	S 2023	VNIT
Mr Anuj Ghatate	S 2023	Indian Army
Ku Mansi Dhenge	S 2023	Agniveer
Parth Hedau	S 2022	IIT-Jodhpur
Anuj Khapekar	S 2022	VNIT
Anuj Ghatate	S 2021	M.Sc. Phy
Omeshwar Verma	S2021	M.Sc. Phy