

**Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science (Autonomous), Satara**

Faculty Profile

Name: Mr. Aman Sudhir Chaudhari

Designation: Assistant Professor

Educational Qualification: M.Sc. (Physics), NET, SET, GATE

Subject: Physics

Date of Appointment: 27-02-2020

Experience: UG – 7 years

PG – 7 years

Achievements & Awards:

- **'The Best Oral Presentation Award'** at 'International e-Conference on ES Energy and Environment' virtually organized by ES Publisher, USA (27-30 May, 2021)
- **'Gold medal in B.Sc. (Physics)'** awarded from North Maharashtra University by Dr. A.P.J. Abdul Kalam & Dr. Anil Kakodkar (21 May, 2014)
- **'Recipient of INSPIRE, Scholarship for Higher Education'** funded by DST, Govt. of India (Registration Number-1098/2010)
- **Dhirubhai Ambani SSC Merit Reward** awarded by Dhirubhai Ambani Foundation, Mumbai (19th September, 2008)
- University Level Poster Presentation Second rank certificate (28 Feb. 2012)

Rank in Competitive Examinations:

- NET (Dec. 2019) – Lectureship 143 (all India rank)
- GATE (2020) – 1406 (all India rank)
- NET (June 2015) – Lectureship 102 (all India rank)
- GATE (2015) - 1557 (all India rank)
- JAM (2013) - 548 (all India rank)
- AIEEE (2010) – 1199 (state category rank)
- MHT-CET (2010) - 459 (state category merit no.)

Teaching Experience:

- Teaching Assistant at IIT Bombay - Monash Research academy conducting 1st year B. Tech lab and general Physics lab practical (June, 2016 – Oct,2017)

- Assistant Professor (CHB) at Rayat Sikshan Sanstha's Karmaveer Bhaurao Patil College, Vashi conducting M.Sc. (Physics) classes (June, 2018 – Feb. 2020)

Research Experience:

- **Ph. D. topic** - Theoretical Studies on Perovskite Material for Third Generation Solar Cells (Registration on 05th April, 2021)
- **IIT Bombay Monash Research Academy** - Fabrication and Characterization of Organo- Metallic Trihalide Perovskite Light Emitting Diode (PeLED) And Improving Efficiency by Various Treatments (2015-17)
- **M.Sc. project** - Study of Inorganic Organic Hybrid Solar Cell (2014-15)
- **IUCAA Pune summer school** - Introductory Summer School in Astrophysics & Astronomy (ISSAA) with project on 'Solar Dynamo Model' (May – June, 2014)
- **T.Y.B.Sc. project** - Study of Electrical & Optical Properties of Thermally Evaporated CdSe Thin Films (2012-13)

Certificates:

1. Solar Photovoltaics Fundamental, Technology and Application, eight-week Swayam NPTEL-AICTE Faculty Development Program & Online certification course and stood in top 1% with 89% score (July – Sept. 2019)
2. Learning Physics Through Simple Experiments, a two-month online H. C. Verma course offered by Centre for Continuing Education, IIT Kanpur (02 April – 10 June, 2020)
3. COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response, conducted by World Health Organization
4. Physics in Daily Life, a short-term course organized by Swa. Sawarkar Mahavidyalaya, Beed (25 April – 01 May, 2020)
5. Cooperative Learning Pedagogy, an online four-week course offered by GHG Khalsa College of Education, Gurusar Sadar, Punjab under UNESCO's OE4BW online mentoring program-2019 and completed with Distinction (22 May – 18 June, 2020)
6. Philosophy and the Sciences: Introduction to the Philosophy of Physical Sciences an online non-credit course authorized by The University of Edinburgh and offered through Coursera (23 July 2020)
7. Understanding Research Methods, an online non-credit course authorized by University of London and SOAS University of London and offered through Coursera (02 Aug, 2020)
8. Classical Electromagnetism-I (Electrostatics), a four-month online H. C. Verma course offered by Centre for Continuing Education, IIT Kanpur, completed with Excellent performance (15 Aug – 13 Dec, 2020)
9. Numerical Methods and Simulation Techniques for Scientists and Physicists, eight-week Swayam NPTEL-AICTE Faculty Development Program & Online certification course and Elite certificate with 83% score (Sept. – Nov. 2020)
10. Programming for Everybody (Getting Started with Python), an online non-credit course authorized by University of Michigan and offered through Coursera (03 Oct. 2020)
11. A Brief Course on Superconductivity, four-week Swayam NPTEL-AICTE Faculty Development Program & Online certification course and stood in top 1% with 87% score (Jan – Feb. 2021)

12. Classical mechanics-I, a four-month online H. C. Verma course offered by Centre for Continuing Education, IIT Kanpur, completed with Good performance (26 January – 25 April, 2021)
13. Innovation Ambassador training (Foundation Level) conducted by MoE's Innovation Cell, Govt. of India & AICTE (30 June - 30 July, 2021)
14. Physics through Computational Thinking, eight-week SWAYAM NPTEL Online certification course successfully completed (Feb. – Apr. 2021)
15. Research and Publication Ethics, Two-Credit One-month course conducted by Centre for Publication Ethics, Savitribai Phule Pune University, Pune (01 - 30 September, 2021)
16. Successfully completed MS-DEED Level 1 Online Workshop on Introduction to Innovative Pedagogies for UG Teachers organized by Indian Institute of Science Education and Research (ISSER), Pune and Maharashtra State Faculty Development Academy (MSFDA), Pune (11-13 January 2022)
17. Successfully completed One Week Online Training Program on "IPR-Patenting System in India" conducted by Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur (06-10 June, 2022)
18. Successfully completed Seven Week Training of Trainer and Hands-on Workshop on “Artificial Intelligence” conducted by Department of Mathematics Skill Course and Centre of Excellence in Artificial Intelligence Application under RUSA, Yashwantrao Chavan Institute of Science, Satara (Autonomous) (28 March-01 July, 2022)
19. Successfully completed MS-DEED Level 2 in-person Master Trainers Workshop on Effective Teaching for Science and Mathematics Undergraduate Teachers organized by Indian Institute of Science Education and Research (ISSER), Pune and Maharashtra State Faculty Development Academy (MSFDA), Pune (19-30 December 2022)
20. Successfully completed online international workshop on Teaching for and with Creativity in Science and Inquiry-based Learning conducted jointly by Durham University, UK and Indian Institute of Science Education and Research (ISSER), Pune (22-23 December 2022)

Faculty Development Program:

1. Managing Online Classes and Co-Creating MOOCs, a two-weeks faculty development program offered by Ramanujan College, University of Delhi under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, MHRD, Govt. of India (20 April – 06 May, 2020)
2. Facilitation Techniques and Online Tools for College Teachers, a two-day National Level FDP organized by Microbial Department in association with IQAC, S. M. Joshi College, Hadapsar, Pune-28 (27 – 28 May, 2020)
3. Four-week Induction/ Orientation Program for Faculty in University/ Colleges/ Institutes of Higher Education offered by Ramanujan College, University of Delhi under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, MHRD, Govt. of India (04 June – July 01, 2020)
4. Statistical Analysis of Quantitative Data using Advance Excel for Research Scholars, a two-day online national FDP organized by Department of Mathematics, Rizvi College of Arts, Science and Commerce, Mumbai (03 – 04 June, 2020)
5. Virtual Physics Lab, two-day national level Faculty Development Program organized by Malla Reddy Institute of Engineering and Technology, JNTU, Hyderabad (04 – 05 June, 2020)
6. Open-Source Tools for Research, a one-week faculty development program offered by Ramanujan College, University of Delhi under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, MHRD, Govt. of India (08 – 14 June, 2020)

7. Academic and Professional Development, a one-week faculty development program organized by IQAC, Yashwantrao Chavan Institute of Science, Satara (Autonomous) under the aegis of State Project Directorate, Maharashtra (19 - 24 Oct, 2021)
8. Entrepreneurship Development, a one-week faculty development program organized by Entrepreneurship Development Cell & Institutional Innovation Council, Yashwantrao Chavan Institute of Science, Satara (Autonomous) under the aegis of RUSA (14 - 19 March, 2022)
9. New National Education Policy, short term faculty development program conducted by Chhatrapati Shivaji College (Autonomous), Satara under the auspices of Faculty Development Centre, UGC- Human Resource Development Centre, SPPU (PMMMNMST) (25 - 30 April, 2022)

Signature of Faculty