

Curriculum Vitae



Dr. Aviraj A. Jatratar

Asst. Professor
Department of Physics

Name and full correspondence address:

Dr. Aviraj Arun Jatratar

Asst. Professor,

Shri Yashwantrao Patil Science College, Solankur

Tal - Radhanagari, Dist – Kolhapur, 416 212

Qualification: M. Sc., Ph. D. (Physics)

E-mail: aajatratar@gmail.com

Area of Specialization: Material Science, Thin Films, Plasma Polymerization,
Astronomy, Stargazing.

Date of Birth: 01/06/1985

Academic qualification:

Degree	College / Institute	University / Board	Year of passing	Class
Ph. D.	Shivaji University, Kolhapur	Shivaji University, Kolhapur	2017	--
M. Sc.	Shivaji University, Kolhapur	Shivaji University, Kolhapur	2008	II nd
B. Sc.	Rajaram College, Kolhapur	Shivaji University, Kolhapur	2006	II nd

HSC	D. R Mane College, Kagal	Pune Board	2003	II nd
SSC	New English School, Yalgud	Pune Board	2001	I st

Research Qualification:

Sr. No.	Degree	Title
1	Ph. D.	Optical and Mechanical Properties of Polypyrrole, Polystyrene and Their Mixed Thin Films for Optical Waveguiding Application

Work experience:

Sr. No.	Position held	Name of Institution	From	To
1	Asst. Professor	Shri Yashwantrao Patil Science. Solankur	2018	Till date
2	Asst. Professor	Rajaram College, Kolhapur	2012	2016
3	Asst. Professor	Balasaheb Desai College, Patan	2008	2011
4	Asst. Professor	Y. C. College of Science, Karad	2008	2009

Teaching and Research Experience:

Teaching experience :- 11 years.

Research experience :- 05 years.

Academic Credits:

- BOS Sub-Committee Member in Physics, (Shivaji University, Kolhapur)
- BOS Sub-Committee Member in Astrophysics and Space Science (Shivaji University, Kolhapur)
- Paper Setter in Astrophysics and Space Science (Shivaji University, Kolhapur)

Resource person:

1. Resource Person at Shri Yashwantrao Patil Science College, Solankur under IAPT programme – 2018

2. Delivered Invited Talk at Bhogawati College, Kurukali and conducted Sky observation Programme - 02/11/2018
3. Resource Person at Rajaram College, Kolhapur - Introduction to Astronomy (Stellar Evolution) - 30/01/2019
4. Resource person at Kaneri Math for Introduction to Astronomy and Night Sky Observation - 16/04/2019
5. Resource person at Dahiwadi College, Dahiwadi under Lead College Activity Program - 26/09/2019
6. Resource person at D. Y. Patil University, Kolhapur for Introductions to Telescopes organized in collaboration with INYAS - 22/10/2019
7. Resource Person at SGM College, Karad, Delivered invited talk and conducted night sky observation –
8. Resource Person at D. R. Mane College, Kagal for sky observation programme - 05/01/2019
9. Delivered Invited Talk at Aini Highschool and conducted Sky observation Programme - 01/02/2019
10. Resource Person at Shahu College, Kolhapur and delivered invited talk on Perspectives of Astronomy under Rayat Inspire Programme - 06/01/2020
11. Resource Person at Shahu College, Kolhapur for Night Sky observation Programme - 20/02/2020
12. Resource Person for One Day State Level Workshop on Recent Trends in Physics -
13. Delivered guest lecture at New English School, Kasarputale - 11/03/2020
14. Delivered Invited Talk at Pirachiwadi Highschool and conducted Sky observation Programme - 09/03/2020
15. Resource Person at DKASC college, Ichalkaranji for BOS lecture on new syllabus - 09/02/2021
16. Resource Person at YCIS College, Satara and delivered invited talk on Perspectives of Astronomy - 10/06/2021
17. Resource Person at K. H. College, Gargoti and delivered invited talk on Bhugolatan Khagolakade - 10/03/2021
18. Delivered Invited Talk at Bal Vigyan Samelan: For the percolation of science and scientific attitudes among rural middle school children organized by INYAS and Marathi Vidnyan Parishad, Gadhinglaj - 18/12/2021

19. Resource Person at Aanadibai Raorane Arts, Commerce and Science College, Vaibhavwadi and delivered invited talk on Perspectives of Astronomy - 28/02/2022
20. Resource Person at Tulajaram Chaturchand College, Baramati and conducted Night sky Observation - 05/03/2022
21. Delivered Invited Talk at Bal Vigyan Samelan: For the percolation of science and scientific attitudes among rural middle school children organized by INYAS and D. Y. Patil Education Society - 09/03/2022

Awards and Honors:

1. Junior Research Fellowship for UGC Major Research Project

Social Activities:

- Founder, President : Astronomical Society of Stargazing and Instrumentation (ASSI)
- Owner : Spacetech Instruments

Other Activities:

- Invited Talks Delivered at National & State Level : 33
- Night Sky Observations Conducted in Maharashtra : 61
- Self-Made large Telescopes : 04
- Chair Person at National & State Level Seminars : 02

Citation Index (As on Dec 2021):

Citations: 145

h-index: 7

i10-index: 6

Paper Publications in National and International Journals:

Sr. No.	Title & page No.	Journal	ISSN / ISBN No.	Impact Factor
1	Exceptional electromagnetic interference shielding and microwave absorption properties of room temperature synthesized polythiophene thin films with double	Chemical Engineering Journal	ISSN: 1385-8947	13.273

	negative characteristics (DNG) in the Ku-band region			
2	Effect of pH on the properties of chemical bath deposited polyaniline thin film	Applied Surface Science	ISSN: 0169-4332	6.707
3	Facile chemical bath deposition method for interconnected nanofibrous polythiophene thin films and their use for highly efficient room temperature NO ₂ sensor application	Sensors and Actuators B: Chemical	ISSN: 0925-4005	7.460
4	Consequence of oxidant to monomer ratio on optical and structural properties of Polypyrrole thin film deposited by oxidation polymerization technique	Journal of Physics and Chemistry of Solids	ISSN: 0022-3697	3.995
5	Impact of low-pressure glow-discharge-pulsed plasma polymerization on properties of polyaniline thin films	Physica Scripta	ISSN: 0031-8949	2.487
6	Ageing and vapor chopping effect on the properties of MgO thin films	Journal of Alloys and Compounds	ISSN: 0925-8388	5.316
7	Glow discharge plasma polymerized nanostructured polyaniline thin film optical waveguide	Advanced Materials Letters	ISSN: 0976-3961	--
8	Vapor chopped MgO thin film optical waveguide	Materials Today : Proceedings	ISSN: 2214-7853	1.8
9	Study of physical properties of chemical bath deposited nickel oxide thin films	Materials Today : Proceedings	ISSN: 2214-7853	1.8

Conference/ Seminar/ Workshops / Symposium attended:

International	National	Symposium	Workshop
03	--	--	02