BIO DATA

Name : Dr. ATULA UDAY PATIL

E-mail: : atula_jadhav@yahoo.co.in

Educational Qualification : M.Sc.Ph.D

Teaching Experience:



Name of Institute	Post	Period
Shri Vijaysinha Yadav Atrs and Science	Lecturer	14 June 2006 to April 2007
College Peth vadgaon		
Tataysaheb Kore Institute of Engg. And	Lecturer	From 16 th July 2007 to 10
Technology, Warananagar		sep.2009
Department of Technology, Shivaji	Lecturer	From 11 sep.2009 to 18 dec.2011
university, kolhapur		
Institute of Science, Mumbai	Assistant	21 Jan. 2012 to 4 Aug 2014
	Prof.	
Rajaram College, Kolhapur	Assistant	5 Aug.2014 to till date
	Prof.	

Research experience:

Position	Institution	Dates
Project Technician	School of Energy Studies,	30/10/2001 to
U.G.C., New Delhi, Superconductivity R & D Project,	Department of Physics,	21/03/2002
Electrochemical processing and critical current studies	Shivaji University,	
of Thallium and Mercury based superconducting films	Kolhapur- 416 004 INDIA	
and tapes		
Project Assistant	School of Energy Studies,	22/03/2002 to
U.G.C., New Delhi, Superconductivity R & D Project,	Department of Physics,	30/11/2002
Electrochemical processing and critical current studies	Shivaji University,	
of Thallium and Mercury based superconducting films	Kolhapur- 416 004 INDIA.	
and tapes		

Research Awards during Ph.D work:

MNES New Delhi, Govt. Of India awarded JRF under National Renewable Energy Fellowship scheme from 2002-2005.

Participation in Training/workshops/RC/OP:

- 1. "STP: Foundation training program for Assistant Professor in Higher Education Department," organized by YASHDA, Pune 29 July to 10 Aug.2013.
- 2. Worked as organizing member for Awareness workshop on Consortium for Scientific Awareness" organized by Department of Physic , Rajaram college, Kolhapur on Feb .2015
- 3. Worked as Examiner/ Judge for essay competition organized by Marathi Vidyan Parishad, Kolhapur on 30/11/2016.
- 4. General Orientation Programme attended from 2/12/16 to 29/12/16 at Department of Technology, Shivaji University, Kolhapur
- 5. Familiarization workshop on patents and IPR" organized by research committee, Rajaram college, Kolhapur on 8 Feb. 2017.
- 6. Refresher course on "Recent trends in Physics of Materials Science and Technology" participated from 17 July 2017 to 5 Aug 2018 at JNTU, Hydrabad.
- 7. One day teacher workshop on "New changed syllabus of B.Sc. I Physics (CBCS) on 24 Aug 18 at D. P. Bhosale College, Koregaon.
- 8. Worked as organizing member for workshop on "Frontiers in interdisciplinary Research", organized by Department of physics on 18 th Jan 2018.
- 9. Worked as organizing member for Awareness programme on different government scholarships for students on 30th Aug . 2019
- 10. Workshop on revised B.Sc. II curriculum of Physics Paper VIII at Rajarshi Chhatrapati Shahu college, Kolhapur on 16/9/2019.
- 11. Convenor for National Seminar on Indian Space Research Programme : Legacy of Dr. Vikram Sarabhai organized by Department of physics on 28 Dec.2019
- 12. Swayam ARPIT online Refresher course on Teacher and Teaching in Higher Education on 16/02/2020
- 13. Two week FDP on "Managing online classes and co-creating MOOCs" organized by TLC Ramanujan College, University of Delhi from April 20-May 2020

- 14. "Effective and Efficient Online Teaching in the age of Corona, A hands on workshop" online training organized by Teaching Learning Centre (ICT) at IIT Bombay on 23 May 2020.
- 15. Completed One week FDP on "Model Based Simulations in Classical Physics Using XCOS", 15 21 November, 2021 Organized by Department of Physics and Astronomical Sciences Central University of Himachal Pradesh (CUHP) and Indian Association of Physics Teachers(IAPT)
- 16. Completed SWAYAM ARPIT Online Refersher course on Pedagogical Innovations And Research Methodology (Interdisciplinary) From 1st Dec 2020 to 31st March 2021 (examination held on 21/08/2021) Guru Jambheshwar University of Science & Technology Hisar, Haryana
- 17. One day workshop on Advances in Energy storage technology organized by the Shri Shahaji chhatrapati Mahavidyalya, Kolhapur on 6/12/22
- 18. Completed Online One week National level FDP on PYTHON 22/08/22 to 27/08/22 organised by Yashoda Shikshan Prasarak mandal Satara
- 19. Completed Online One week FDP on "NEP 2020, New Trends in Higher Education" from 29 /8/202 to 4/09/2022 organised by TLC Ramanujan College in collaboration with PMMMNMTT, University of New Delhi.
- 20. UGC Approved Short term FDP on "Implementation of NEP-2020 For University and College Teachers from Dec.21-31, 2022
- 21. Completed MS-DEED Level 1 In-Person Workshop: "Introduction to Innovative Pedagogies for College Teachers" from 18th to 20th January 2024 at *Rajaram College, Kolhapur* conducted by IISER Pune and supported by MSFDA.
- 22. Participated in One day workshop on Cyber Security Awareness organized by Shri Shahaji Chh. Mahavidyalaya, Kolhapur on 25/01/24
- 23. Completed One day workshop: Hands on training on research related softwares at Rajaram College, Kolhapur on 27 feb.2025

Invited talk / Resource person/Guest lectures

- 1. Worked as resource person for the remedial class at B. Tech. I at Department of Technology July 2019, Shivaji University, Kolhapur.
- 2. Invited as a Chief guest at Abhinav Vaykhanmala 2022 (8th year) organized by Abhinav Prathishtan , Shigaon
 - 3. Worked as a Resource person for VIBGYOR school visit to Department of Physics on 6th Feb. 2025.

Membership:

Member on board of studies in Physics of Autonomous Mahavir Mahavidyalaya, Kolhapur

Sub committee Member on board of studies in Physics of Shivaji University, Kolhapur Life member of the Indian Association of Physics Teacher (Membership number-13671L8675)

Government Representative:

- DE representative for Physical verification of Students in Colleges
- Government Observer for B.Ed. CET examination
- Government Observer for (3yr and 5 yr) L.L.B CET examination

Organized:

- National Seminar On Indian Space Research Programme: Legacy Of DR. VIKARAM SARABAI on 28th december 2019.
- One day workshop on Womens Personality and Safety at workplace on 5/12/2022.
- Organised a Guest lecutre for teaching and non teaching faculty member on Ekam experience: Feel a stress free mind on 12/12/2022

Books/Chapter in Books:

- 1. **A. B. Jadhav** and S.H. Pawar, "Applications of Superconductors in energy", A Book Chapter, Narosa Book Publishers, New Delhi, 2003.
- 2. Published Book chapter in book COVID 19: Impact and Response Volume VII (ISBN: 978-93-91768-52-2) chapter ROLE OF ELECTRONICS AND COMMUNICATION IN COVID 19 PANDEMIC, V. S. Gaikwad and A. U. Patil, pp 11-20

List Of Research Publications:

❖ Journal Publications: 10

- A. B. Jadhav and S.H. Pawar, "Electrochemical Synthesis of Superconducting Magnesium Diboride thin Films: A Novel Potential Technique", Superconductor Science and Technology, 16(2003)752.
- 2. A. B. Jadhav. K.M. Subhedar, R.S. Hyam, A. Talpatra, Pintu Sen, S. K. Bandyopadhyay and S.H. Pawar, "Formation of MgB₂ at ambient temperature with an electrochemical process: a plausible mechanism" Superconductor Science and Technology,18 (2005)L29.
- 3. S. H. Pawar, P. M. Shirage, D. D. Shivagan and A. B. Jadhav, "Novel room temperature electrochemical deposition of high temperature superconducting films" Modern Physics Rev. B 18(12-13) (2004) 505-549.
- 4. P.M. Shirage, D. D. Shivagan, A.B. Jadhav, and S.H. Pawar, "Thickness dependent transport properties of Tl-2223/Al heterostructure" Indian J. Cryogenics Council 28(3) (2003) 103.
- **5. A. B. Jadhav** and S. H. Pawar, "Recent Advances in Development of MgB₂ Superconductor for Applications" **Indian J. Cryogenics Council 28(3)(2003) 90**
- **6. A. B. Jadhav** and S. H. Pawar, "Studies on electrochemical synthesis of MgB 2 films and their superconducting behavior." *Proceedings of the DAE solid state physics symposium. V. 50.* 2005.
- 7. S.H. Pawar A.B. Jadhav, P.M. Shirage, and D. D. Shivagan," Electrochemical Synthesis of Superconducting MgB₂ thin films: a novel potential technique", arXiv preprint cond-mat/0207406
- 8. **Atula U. Patil**, Uday Patil and Swati Deshmukh," The progress in the Iron pnictides Superconductor" Journal of Emerging Technologies and Innovative research" Aug 2023 Vol 10 Issue 8, h384-h389
- 9. SP Deshmukh and A U Patil "Multiwavelength Study of Star Formation in NGC 3413" International Journal of Research in Academic World ,2023; 2(2):140-144.
- 10. Eknath C. Patil, Shashikant D. Lokhande, Uday A. Patil, Atula U. Patil, Jayendra Kumar, "Optically transparent dual-band antenna for UHF and S-band applications" Optical Materials Vol 114 Jan.2024, 114615.

11. Uday A. Patil, Anadrao A. Kakade and Atula U. Patil, "Low Cross-Polarization High-Isolation 2-Element MIMO Antenna for Unmanned Aerial Vehicle", Int. J. Electron. Commun. (AEÜ) 177(2024) 155164.

Seminars/ Conferences/Workshops:

- 1. **A. B. Jadhav** and S. H. Pawar "Electrochemical Synthesis of Superconducting Wires For Large Scale Energy Applications", National Symposium on Recent Advances in Renewable Energy Technologies, Kolhapur, Aug.13-15, 2002.
- 2. Rani A. Sutar, P.M. Shirage, D.D. Shivagan, A. B. Jadhav and S. H. Pawar, "Studies on Fabrication of Optical Sensor with Tl-2223 Superconductor Films", National Symposium on Recent Advances in Renewable Energy Technologies, Kolhapur, Aug.13-15, 2002.
- **3. A. B. Jadhav** and S. H. Pawar "Electrochemical Synthesis of Superconducting Wires For Large Scale Energy Applications", National Symposium on Recent Advances in Renewable Energy Technologies, Kolhapur, Aug.13-15, 2002.
- 4. S. H. Pawar, **A. B. Jadhav**, P.M. Shirage and D. D. Shivagan , "Synthesis Of Superconducting MgB₂ Films By A New Novel Route" MRSI 13th AGM Hyderabad, Feb, 7-9, 2002.
- P. M. Shirage, D. D. Shivagan, A. B. Jadhav, and S.H.Pawar, "Studies on Electrochemical Oxidation and Structural Properties of TBCCO Superconducting Films", MRSI 13th AGM Hyderabad, Feb, 7-9, 2002.
- **6.** D. D. Shivagan P. M. Shirage, **A. B. Jadhav**, and S. H. Pawar, "Photoinduced Effects in Pulse Electrodeposited Ag/Hg-1223/CdSe Hetero Nano-Structures" MRSI 13th AGM Hyderabad, Feb, 7-9, 2002.
- 7. **A.B. Jadhav**, P. M. Shirage, D.D. Shivagan, L. A. Ekal and S. H. Pawar "Studies on Synthesis Of Superconducting MgB₂Film", Seventh International Symposium on Advances in Electrochemical Science and Technology, Chennai (Madras), Nov. 27-29, 2002.
- 8. P.M. Shirage, D. D. Shivagan, L.A. Ekal, **A. B. Jadhav** and S. H. Pawar "Studies on Photoinduced Changed in Electrochemically Synthesized Tl-Ba-Ca-CuO Superconducting films", Seventh International Symposium on Advances in Electrochemical Science and Technology, Chennai (Madras), Nov. 27-29, 2002.
- 9. D. D. Shivagan, P. M. Shirage, L.A. Ekal, A. B. Jadhav and S.H. Pawar "Pulse Electrodeposition of Ag/Hg-1223/CdSe Heterostructures and their Interface Studies",

- Seventh International Symposium on Advances in Electrochemical Science and Technology, Chennai (Madras), Nov. 27-29, 2002.
- 10. L. A. Ekal, D.D.Shivagan, P.M. Shirage, A. B. Jadhav and S. H. Pawar," Electrochemical Oxidation of Y-Ba-Cu and Tl-Ba-Ca-Cu Alloy Films Using an Alkaline Bath," Seventh International Symposium on Advances in electrochemical Science and Technology, Chennai (Madras), Nov. 27-29, 2002.
- 11. **A B. Jadhav** and S. H. Pawar "Studies on Growth Mechanism of MgB₂ Films by Electrochemical Route" 14th AGM-Materials Research Society of India, BARC, Mumbai, Feb.11-13, 2003.
- 12. **A. B. Jadhav**, S. P. Kharade, P. M. Shirage and S. H. Pawar, "Study of Copper Doping in MgB₂ Films" MRSI –15th AGM, BHU Varanasi 9th –11th Feb. 2004.
- 13. B. B. Patil, **A. B. Jadhav** and S. H. Pawar, "Electrodeposition and Nucleation Growth Mechanism of Ce_{0.8}Sm_{0.02}Ni_{0.18}O_{1.9}Thin Films", ICEPS-2004, Hyderabad, 20-21 Dec.2004.
- 14. **A. B. Jadhav**, D. M. Phase, V. Ganeshan and S. H. Pawar, "Effect of Post heat Treatment on Surface morphology of MgB₂ Films". 16th AGM, MRSI NCL Pune, 10th -12th Feb. 2005.
- 15. R.S. Kalubarme, M. B. Kadam, **A. B. Jadhav** and S. H. Pawar, "Substrate dependent Voltammogram Studies of Electrochemical Bath to Prepare Clusters of Tl-Ba-Ca-Cu in Thin Films" 16th AGM, MRSI NCL Pune, 10th -12th Feb. 2005.
- 16. B. Sinha, **A. B. Jadhav** and S. H. Pawar, "Voltammetry Study of MgB₂ Films on Different Substrates", 16th AGM, MRSI NCL Pune, 10th -12th Feb. 2005.
- 17. Attended "National Seminar on Materials Processing and Characterization Techniques (NS-MPCT)" from 28-29th March 2005 at Shivaji University, Kolhapur.
- 18. ISTE workshop on "Solar Photovoltaics: Fundamentals, Technologies and Applications", conducted by Indian Institute of Technology Bombay from 12-22 Dec.2011.
- 19. National conference on , "Materials for Future Technology (2014)" organized by Department of Physics, Rajaram college, Kolhapur on 25-26th Sep .2014

- 20. National conference on ,"Recent Trends & Future Prospects in Microbiology" organized by Department of Microbiology, Rajaram college, Kolhapur on 4-5th Oct. 2014
- 21. One day workshop on Choice Based Credit System under lead college scheme at Rajaram college, Kolhapur on 3 Oct 2015.
- 22. One day seminar in physics, "Recent Developments in Physics on 19 Jan 2017 organised by Department of Physics, Rajarshi Chhatrapati Shahu College Kolhapur.
- **23.** "One day seminar on "Energy Audit Do it yourself" organized by Institution of Engineers Kolhapur and DOT, Shivaji University, Kolhapur.
- 24. Participated in Two days online International conference on advances in science and technology (ICAST-2022) on 9 and 10 March 2022 organised by Rajarshi Shahu college, Kolhapur.
- 25. Attended online webinar on "Nanomaterials for Harnessing Solar Energy" organized by the Indian Women Scientists' Association, supported by BRNS-DAE and Internal Quality Assurance Cell, Rajaram College, Kolhapur on 30 March 2022.\
- 26. Participated in One day International conférence on Recent Trends in Fabrication of Nanomaterials and Their applications (ICRTFNA-2023) organised by Rajashri Chh. Shahu College, Kolhapur on 15/03/2023
- 27. Attended 2nd International conference on environment, Agriculture, Human and Animal health VOICE INDIA, AIITE, New Delhi, India, Somnogen Canada Inc, Toronto Canda, NEXUS India Organized by Dept. of Botany and Geology, Rajaram college, Kolhapur on 20 and 21 July 2023.
- 28. Participated in 8 th International conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET-2023) orgnised by Department of Electronics and Communication Engineering, National Institute of Technology, Mizoram, India on 06-07 October 2023.
- 29. Attended Three days International Webinar on "Electronic Waste and Sustainable Development" organized by department of Electronics Shivaji University, Kolhapur on 13-15 Feburary 2024.