

Shri Shivaji College of Arts, Commerce and Science, Akola
Faculty Profile (Bio-data of faculty members)



Name : Rajkumar Vithalrao Salodkar
 Address (residential) : A-6, Yashshri Sankul, I.F.O.
 Maliwal Gas Godown, Jatharpeth
 ,Akola
 Phone No. / Cell No. : 9423127228
 E-mail address : rv_salodkar@rediffmail.com.
 : salodkarrv19@gmail.com
 Designation : **Associate professor & HOD**
 Department : Physics
 Date of birth : 19 Jan 1963
 Area of specialization : Solid State Physics & Solid Electrolyte
 Academic qualification : M.Sc-Physics

Examination passed	Board/ University	Subject/ Specialization	Year of passing	Division/ Grade/ Merit
Bachelor's Degree	Nagpur University	Phy, Chem, Maths	1983	Second
Master's Degree (M.Sc.)	Nagpur University	Solid State Physics & Acoustics	1986	First

Membership of Academic Organizations : ISCA ,IPA, NUTA, AUPTA ,DATA
 Research Experience : Two and Half year JRF UGC fellowship : Nagpur Univ.

Guiding M. Sc. Dissertations – 53

Guiding Ph.D. students - Nil

Publishing research papers. (Give the complete list)- Seven

ii] Research paper published: -

Enhancement of ionic conductivity of Lithium borophosphate glass; a mixed glass former effect.

R.V.Salodkar, V.K.Deshpande and K.Singh. Journal of power sources 25[1989] 257-263

Enhancement of ionic conductivity by dispersion of glassy phase into Na₂SO₄ K.Singh and R.V.Salodkar Bull of electron 5(10) Oct 1989 pp. 778-780.

An Investigation of lithium conducting borate glasses in the light of preparative mode.

P.R.Gandhi, R.V.Salodkar and K.Singh Ferroelectrics Journal Of America 1990-102,45-51.

d) Conductivity and density measurement of mixed alkali borate glasses.

K.Singh and R.V.Salodkar 5th National conf. On Solid-State Ionic's Feb.02 pp(115-117)

e) Nonlinear absorption of L-arginine capped ZnO nano-suspension Special Nonlinear absorption of L-arginine capped ZnO nano-suspension Special, National conference on Material Science-Trends and future-2014, Bharatiya Mahavidyalaya, Amravati 10-11 Jan 2014

f) Effect of PVP as capping agent on the optical properties of ZnO nanoparticles page 121-125 National Seminar on Recent trends in Mathematics, Physics and their application NCRTPA-2014, Khandelwal College, Akola 19th March 2014

g) Structural and Electrical Properties of Magnesium Oxide Nanoparticles Synthesized By Chemical Co-Precipitation Method

M. R. Belkhedkar^{a,b}, R. V. Salodkar^a, G.P. Save^b, A.V. Mitkari^b, Y. S. Sakhareb^b, A. U. Ubaleb^{*}

^a Department of Physics, Shri Shivaji College, Akola 444003, Maharashtra, India

^b Nanostructured Thin Film Materials Laboratory, Department of Physics, Govt. Vidarbha Institute of Science and Humanities, VMV Road, Amravati 444604, Maharashtra, India

Seminars/ Conferences/ Symposia/ Conferences attended :- Twenty two

Seminars/ Conferences/ Symposia/ Conferences organized :- One

1	National Seminar on "Current Trends In Physical Sciences & Electronics Research."	UGC & Dept. Of Physics & Electronics, Shri. Shivaji College Akola	Mar. 28, 2010	Convener of National Conference
---	---	---	---------------	--

14. Research Projects Completed / Ongoing

Title of the project	Name of the funding agency	Duration	Remarks
Development of mixed conducting glasses for electrochemical devices.	UGC, Pune	Yr. 2005-2007	Project Completed Successfully
"Analysis and study of ultrasonic velocity of bore water in Akola district"	UGC, Pune	Yr. 2015	Sanctioned

15. Teaching Experience :- U.G.-Physics Subject -26 years

PG -Physics Subject -22 Years

16. Orientation & Refresher Courses Other (Career Oriented Programme) :-

i) Orientation course-Nagpur Uni.-8 Aug to 4 Sept. 1990.

ii) Refresher course-Rani Durgavati Univ. Jabalpur-1 Nov to 21 Nov 95.

iii) Refresher course-Amravati Uni., Amravati-15 Feb to 10 March 1999.

iv) Refresher course-Amravati Uni., Amravati-5 June to 28 Jun 2004 Years

16. Innovations/ Contributions in Teaching :-

Design of Curriculum :- For classroom lectures

Teaching Methods :- For UG-1) Usual Classroom teaching method adopted usually along with some model, Chart and OHP used for special lectures as when required & ICT.

:- PG -Physics: - LCD, OHP and Classroom, PPT used

Laboratory Experiments: -i] Induction programme for UG & PG for newly admitted students.

ii] Experimental Demonstration, followed by explanation on actual practical.

ii] Encouraging students to fabricate and design various experiments based on syllabus.

Preparation of resource materials:- i]Notes on theory as well as practical are distributed and some reference books for up-to-date knowledge are recommended.

ii]Practical manuals were prepared for each experiment and made available for students.

iii] Question **Bank** prepared as per Unit wise and distributed to students

Remedial teaching :- Guidance to the students weak in studies during free and spare time.

For P.G.- Project guidance , Total = 50 Project guided

17]Extension activities/ consultancy/ community works:- College

b) Wrote an article on “spiritual matter and Indian culture” in newspaper and magazine.

Service to community extension: - I am working for “Swami Samarth Adhyatmic and Bal Vikas Kendra”-Tilak Park ,Akola 1995 to help people & guide them, solve their personal problems and help students & small kids in their study also teach them rhym ,stotra etc Every Sunday and after college over evening Thursday

18. Role in college activities:- Work as a Conveners of i]P.G. Physics Coordinator

ii] Science Exhibition iii] Parent Interaction committee iv] National Science Day

v] Hiroshima Day-6th Aug vi] Second Shivaji Vidnyan Parishad (2014-15)

Write regularly Articles in College magazine “Shivdhyan”

19. Role in university activities :-Valuation, Practical Examination, Invigilation:- i]U.G. & P.G. Paper Setter and Paper Valuation

ii] Internal & External Examiner for Practical Exams for U.G. & P.G..

iii]Invigilator for University exam

iv]Member of P.G. Syllabus committee and Member of Moderation committee for P.G.

20. Membership / participation in Activities of national development:-

Life Member of Indian Science congress Association, Kolkata

Life Member of Indian Physics Association

Life Member Amravati University of Physics Teacher Association [AUPTA]

Life Member of NUTA

Life Member of DATA