

Dr. MAHIBOBSAB AHMEDHUSEN NAGARBAWDI

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**HEAD
DEPARTMENT OF PHYSICS,
CEO, EXAMINATION SECTION
AKI'S POONA COLLEGE OF ARTS, SCIENCE & COMMERCE
CAMP, PUNE – 411001.
INDIA.**



‘Dedicated to Creating a Positive Learning Environment and Making a Difference in Students’ Lives’

PROFILE

- An erudite academician with high caliber and extensive experience of **over 29 years**, developing results driven curriculum and delivering enthusiastic instruction of **Physics** principles to students.
- Ability to individualize instructions based on the students’ specialized and changing needs, proven ability to develop rapport with students.
- Strong leadership traits with excellent ability to coordinate with different people at one time under difficult situations and the ability to bring out the best in others while creating a healthy and friendly work environment, thus enhancing operational efficiency and optimizing resource utilization.
- Articulate communicator, able to effectively interact with diverse populations of students at a variety of academic levels with abilities in recognizing, respecting & nurturing the creative potential of each student & responding to all classroom queries in a positive manner.
- Quick learner with an eye for precision and fine details. Responsible with a matured approach and can make an effective contribution to the performance of a team with good leadership and motivating capabilities.

PROFESSIONAL EXPERIENCE

Subjects Taught: Solid State Physics, Quantum mechanics, Classical mechanics, Nuclear Physics, Waves & Oscillations, Material science, Electronics, Microprocessor 8085, Mechanics and General Physics

Categories: Graduate & Undergraduate Level Students

Chief Strengths Acquired:

- Presently working as a **college Examination Officer (CEO) for Savitribai Phule Pune University, PUNE. And HEAD, Department of Physics,**
- Manage classroom coverage of assigned subjects as per academic curriculum to students and to conduct practical work for the students.
- Assume overall responsibility of a devoted educator covering professional development, assessment of students and conducting staff meetings.
- Collaborate with fellow lecturers on lesson plans and perform administrative tasks viz. recording attendance, managing student portfolios and providing individual assistance to the students.
- Significantly enhance classroom learning environment and acting as a facilitator to promote student leadership in initiating and creating positive learning opportunities.
- Receive consistent evaluations from students and supervising administrators, devise lessons which captured the students' imaginations infusing much needed enthusiasm.
- **Credentials of having students who are Gold medalist working as scientists in DRDO, in Defence as fighter pilots, as Assistant Professor in different colleges, as journalist. Seven students have completed M.Phil., under my supervision in Material Science (Ferroelectricity).**
- **Published a book on “ELEMENTS OF MATERIAL SCIENCE” for final year Physics graduate students, affiliated to Savitribai Phule Pune University and other Universities of Maharashtra as well as competitive exams,Pune. ISBN NO.-978-93-5158-381-3.**
- **Published a book on “QUANTUM MECHANICS” for final year Physics graduate students, affiliated to Savitribai Phule Pune University and other Universities of Maharashtra as well as competitive exams, Pune. ISBN NO.-978-93-5158-490-2.**
- **Published a book on “PHYSICS OF NANOMATERIALS” for final year Physics graduate students, affiliated to Savitribai Phule Pune University and other Universities of Maharashtra as well as competitive exams, Pune. ISBN NO.-978-93-5158-485-8.**
- **Published a book on “ELECTRONICS” for final year Physics graduate students, affiliated to Savitribai Phule Pune University and other Universities of Maharashtra as well as competitive exams,Pune. ISBN NO.-978-93-5158-487-3.**
- **Published a book entitled Fundamental of Nano-Technology and Nano-Materials for graduate students affiliated to Savitribai Phule Pune University and other universities as well as for competitive examination by Idea Publishing, New Delhi, ISBN 978-8193270646.**

EDUCATIONAL CREDENTIALS

Ph. D (1998)

Shivaji University, Kolhapur,

Title: 'Some studies on the properties of ferroelectric ceramics, Barium Titanate, Lead Titanium Stannate with Niobium and Zirconium Additives'

Guide: Dr. K. L. Narayana

Professor & Head, Department of Physics, Shivaji University, Kolhapur.

M. Sc., Theoretical Physics (1987), Ist Class with distinction

Department of Physics, Shivaji University, Kolhapur;

Secured First Rank in Physics.

B. Sc. Physics (1985)

Miraj College, Miraj, Shivaji University, Kolhapur; Ist Class with distinction

FOUR WEEKS ORIENTATION COURSE (TEACHING METHODOLOGY) 2000
University of Pune., Pune.

FOUR WEEKS REFRESHER COURSE – (INFORMATION TECHNOLOGY) 2004
University of Pune.

FOUR WEEKS REFRESHER COURSE –PHYSICS (MATERIAL SCIENCE) 2005
Mahatma Gandhi University, Kotayam, Kerala.

TWO WEEKS COMPUTER AWARENESS COURSE 1999
Poona College, Camp, Pune

TWO WEEKS ELECTRONICS WORKSHOP 1993
Department of Physics, Shivaji University, Kolhapur.

HIV/ AIDS youth Peer Education Training Programme for Programme Personnel & Councillors 2004
held at Pune from 10th-13th Sept.2004. Organised by International Federation of Red Cross,
National Red Cross Head Quarters Delhi, & Indian Red Cross Society, Maharashtra.

ACADEMIC ACCOMPLISHMENT

- Secured first rank in the department of physics M.Sc, Theoretical Physics Shivaji University, Kolhapur. Recognized research guide of Savitribai Phule Pune University, PUNE.
- Seven students have completed and three are pursuing M.Phil in Material science (Ferroelectricity) under my supervision.
- Delivered invited talk on "Commercialization of Renewable Energy Sources" in CRET workshop on 18th-19th Nov. 1994 organized by School of Energy studies, Shivaji University, Kolhapur.
- Delivered a series of guest lectures on "Microprocessor" in the month of Feb/ March 2002 at Mahatma Phule Mahavidyalaya, Pimpri, Pune-17.
- Worked as, the Chief Test Administrator to conduct the recruitment test, for the post of L.D.C. in E.P.F. organization through IBPS for 500 students on 9th May 1995.
- Visited as a member of Local Inquiry Committee, University of Pune, for the continuation of affiliation to undergraduate & post graduate courses at Abeda Inamdar Senior College, Pune, for the academic year 2013-14, & 2014-15.

- Visited as a member of Local Inquiry Committee, University of Pune, for continuation of affiliation/ natural growth to the undergraduate & post graduate courses at PDEA's Annasaheb Magar Mahavidyalaya, Hadapsar Pune for the academic year 2013-14, & 2014-15.
- Visited as a member Local Inquiry Committee, University of Pune, for continuation of affiliation and natural growth to the undergraduate & post graduate courses at Padmashree Dr. D Y Patil Art's Commerce & Science College, Pimpri, Pune, for the academic years 2013-14 & 2014-15.
- Subject Expert for the conduct of interviews of candidates for teaching posts at Abeda Inamdar Senior College, Pune.
- Contributed as a Resource Person and invited speaker at several International / national / state level as well as university level seminars/ conferences/ workshop/ symposia.

RECENTLY PUBLISHED RESEARCH PAPERS

1. Structural characterization of Lead Titanate (PbTiO_3) sample using FULLPROF IOSR Journal of applied Physics VOL-8, Issue- 6 Ver.-5, Nov-Dec. 2016 **Nagarbawdi M.A** and Jangade P
2. Structural characterization of Calcium modified Lead Titanate ceramics, International multidisciplinary Research Journal Golden Research Thoughts Vol-5, Issue-7, Jan -2016 **Nagarbawdi M.A**,
3. The influence of Calcium doping on structural and electrical properties of ferroelectric Lead Titanate ceramic. **Nagarbawdi M.A**, Bagwan S and Jangade P., *IOSR Journal of Applied Physics*, vol. 6, Issue 3, Ver II, PP15-19, May- June 2014.
4. Solid state synthesis of Niobium and Cobalt doped BaTiO_3 XRD, Structural and Enhanced Dielectrical properties of BaTiO_3 . Bagwan S, **Nagarbawdi M.A.**, *International Journal of Current Research*, Vol.5 Issue 10, PP 3149-3154, Oct.2013.
5. Effect of Copper addition on the structural characteristics of ferroelectric Calcium Titanate ceramic. V. Uchagaonkar, **Nagarbawdi M.A**, Bagwan S., *International Journal of Advances in Management Technology & Engg. Science*, Vol. III, Issue 6(1), pp 27-28, March 2014.
6. Solid state synthesis and characterization of Calcium modified Lead Titanate Stannate, **Nagarbawdi M. A**, Pravin Jangade, *International Journal of Multi. Disciplinary Research and Advances in Engg.* Vol. 1 No. 1 pp 115-123, Nov. 2009.
7. Buffer influence of Lanthanum on ferroelectric properties of modified Sodium Vanadate, **Nagarbawdi M. A**, Bagwan S, *International Journal of Engineering and Technological Advances*, Vol. 1, Issue 4, pp 46-49, April 2014.
8. Study of Enhanced structural and electrical properties of Calcium modified Lead Titanate. Pravin Jangade, **Nagarbawdi M.A**, Bagwan S. *Proceedings, Third Frontiers of Physics Meeting at Jazan University, Saudi Arabia*, Feb. 2014.
9. Synthesis & Characterization of ZnFe_2O_4 Nanoparticles, Pathan AmjadKhan, **Nagarbawdi M. A**, Bagwan S, *International Journal of Advances in Management, Technology & Engg. Science*, Vol. 3, Issue 9 (III), pp 10-11, June 2014.
10. Solid waste Management Awareness & Practices in urban Pune, Mehmood G Sayyed, Bagwan S, **Nagarbawdi M.A**, *Innovations, Changes and Challenges in Management, Engineering and Technology* Vol.1, Issue 6, June 2014. Pp.6-9.
11. Physical fitness of pre-university college boys students in Pune, India. Mehmood G Sayyed, Aiyaz H. Shaikh and **Mehboob N.** *International Journal of Multidisciplinary Research*. vol.3, Issue 3 (2), June 2014. pp.15-18

RESEARCH PROJECT

- Successfully completed minor research project entitled “Effect of sintering temperature on hardness, frictional loss and grain size of Barium Titanate” in the capacity of Principal Investigator funded by UGC New Delhi.
- Currently pursuing research in Organic materials for Electronic technologies at Dept. of Physics, AKI’s Poona College Camp, Pune.

INTERNATIONAL CONFERENCES

- **keynote speaker** INTERNATIONAL MARMARA SOCIAL SCIENCES CONGRESS at KERVANSARAY KÜLTÜR MERKEZİ GÖLCÜK/KOCAELİ on May 21-22, 2021 **Imascon** Kocaeli University **Turkey**.
- **keynote speaker** INTERNATIONAL MARMARA SOCIAL SCIENCES CONGRESS at KERVANSARAY KÜLTÜR MERKEZİ GÖLCÜK/KOCAELİ on December 04, 2020 - December 05, 2020 at **Imascon** Kocaeli University **Turkey**.
- **Resource Person** at International conference **Imascon** Kocaeli University **Turkey** “Education actions in India during Covid 19 pandemic” during 19-20 June 2020.
- Invited as a **Plenary speaker** International Material technology conference at **Ferhat ABBAS SETIF1 University Algeria**, September 2018 and presented a talk on Sustainable Development.
- **keynote speaker** International Conference on Renewable Energy and Energy Conversion (ICREEC’2019) scheduled between November 11 to 13, 2019 in **Oran, Algeria**
- **Invited speaker** at international Organic Electronic Material Technology conference at **Kirkalari University Turkey** September 2018.
- **Chief Guest** at **Dubai** international conference October 2018.
- International conference on Advanced Materials (ICAM-2017) Jordan university of Science and Technology **Irbid Jordan** from 10th -13th July 2017
- International Scientific Committee of the ICAM-2017 that will took place at **Jordan University of Science and Technology, Irbid, Jordan from the 10th to 13th July 2017**, we are pleased to formally inform you that your contribution entitled of " Quality Assessment of some vegetables by dielectric sensing, hydrophobicity and hydrophilicity of surfaces by electrochemical deposition." Authors: Nagarbawdi M A, Sohail Bagwan, has been **accepted as an ORAL PRESENTATION**.
- Recently paper accepted at **International Congress on Earth Sciences in SE Asia, Bandar Seri Begawan, Brunei Darussalam to be held on 15th – 18th November 2017**, entitled “Tectonic plate movement in the north eastern parts of Himalaya create catastrophic earthquakes: A case study of Nepal earthquake”. **Abstract ID: ABS_5, Registration ID: REG_40 accepted for oral presentation**

- Participated and presented paper (Poster) entitled “ Pyroelectric properties of Lanthanum doped Sodium Vanadate” in *International conference Management, Engineering and Technology Sciences held on 1⁷th and 1⁸th October 2015* , at international center Goa.
- Participated and presented paper entitled “ Electrical behavior of vegetables, fruits and food grains ” at *International conference on “Physics, Chemistry, Mathematics, Electronics and Computer Science ”* held on 10th October,2015 at kolhapur.
- Participated and presented paper entitled “Information and Communication Technology (ICT) is a tool to enhance the quality of education”at the *International conference on “Emerging Trends in Education”held on 22nd and 23rd August 2015. At St. Teresa’s Institute of education, Santacruz, Mumbai.*
- Participated and presented paper entitled “ ELECTRICAL BEHAVIOUR OF SOME OF THE VEGETABLES, FRUITS AND FOOD GRAINS ” at the *International Multidisciplinary Research Conference, held on 30th June 2015, at MCCIA, Tilak Road, Pune, INDIA.*
- Participated and presented paper entitled “Structural and electrical characterization of copper modified Calcium Titanate Ceramic” in *International conference on “Organic Electronic Material technologies (OEMT2015”* held on 25-28 March 2015 at **Elagiz, TURKEY.**
- Participated and presented poster entitled “Pyroelectric properties of Lanthanum doped Sodium Vanadate” in International conference on “*Organic Electronic Material technologies (OEMT2015)*” held on 25-28 March 2015 at **Elagiz, TURKEY.**
- Participated and presented paper entitled “Synthesis and characterization of ZnFeO₄ nano-particle” at the International conference on “*Innovations, changes and challenges in management, Engineering and Technology*” held on 29th may 2014, Panjim, Goa, India.
- Participated and presented paper entitled “Solid waste Management Awareness and Practices in Urban Pune” at International conference on “*Innovations, changes and challenges in management, Engineering and Technology*” held on 29th may 2014, Panjim, Goa, India.
- Participated and presented paper entitled “Physical fitness of Pre-University college Boys Students in Pune India” in International conference on “*Innovations, changes and challenges in management, Engineering and Technology*” held on 29th may 2014, Panjim, Goa, India.
- Participated and presented paper entitled “Effect of Copper addition on structural characteristics of Ferroelectric Calcium Titanate Ceramic” in International conference on “*Paradigm, shift in Commerce, Management and Social Science*” held on 21st March, 2014 at Dr. Babasaheb Ambedakar Marathwada University, Aurangabad.

- Participated and presented paper entitled “Experimental evidence for a defect mode in Niobium and Cobalt doped Barium Titanate” in International conference on “*Advances in chemical, Biological and Pharmaceutical Sciences*” held on 19th March 2013, at Hotel Aurora Towers, Pune, India.
- Presented poster entitled “Study of solid state synthesis of Niobium and Cobalt doped BaTiO₃, XRD structural and enhanced dielectric properties of doped BaTiO₃” at National seminar on “*Nanomaterials Avenue*” held at KTHM College, Nashik on 21-23rd Oct. 2013.
- Attended three days International workshop on “*Nanotechnology and Advanced Functional Materials*” held on 9th -11th July 2009 at National Chemical Laboratory, Pune, India.

NATIONAL SEMINAR & WORKSHOP ATTENDED/ ORGANIZED

- Attended National webinar on Advances in synthesis techniques and characterization of materials organized by T C college Baramati during 24th – 29th June 2020.
- Convener of two days State level conference on “*Recent Trends in Material Science*” Sponsored by Board of College and University Development (BCUD) University of Pune, held on 5th and 6th Feb 2010 at dept. of Physics.
- Attended one day National seminar on “*Higgs boson- The God Particle*” organized by Abeda Inamdar College, Pune in association with University of Pune on Saturday 1st Sept. 2012.
- Participated one day workshop on “*New Methodology and Need for Good Documentation in the Accreditation Process*” organized by the IQAC of Poona college, on 30th Sept. 2014.
- Attended one day workshop on “*Duality Enhancement in Academics*” organized by IQAC of Poona College, Pune on Wednesday the 8th Nov. 2006.
- Participated in the seminar on “*Current Trends in Mathematics*” organized by the Department of Mathematics, Poona College, Camp Pune on 28th April 2001.
- Successfully organized two days State level workshop on “*Disaster Management Training*” jointly organized by National Service Scheme, University of Pune and NSS unit of Poona College of Arts, Science and Commerce on 4th and 5th Oct. 2005.
- Actively participated in organizing the college Exhibition “*CREATION – 2001*” pertaining to the themes of Arts, Science and Commerce on 20th Sept. 2001.
- Participated in one day seminar on “*New Trends in Material Science*” on 16th Jan. 2001 at Bharatiya Jain Sanghthana College Wagholi, Pune, under the faculty Improvement Programme, Pune University, Pune.
- Attended three day National Conference entitled “*Plant Drugs : An interdisciplinary approach*” jointly organized by the University of Pune on the occasion of Golden Jubilee year Celebrations of University Pune and Azam Campus Pune between 27th - 29th January 1999 at Assembly Hall, Azam Campus , Pune.

- Actively participated in three days National Conference on “Current Trends in Materials Research for Advanced Technology (NCMRAT-2007) ON 29TH - 31ST Jan. 2007 at Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra.
- Attended one day workshop on “ Effective use and maintenance of Physics Laboratory Equipment at UG level” organized by Shikshan Prasarak Santha’s Sangamner College at Sangamner, Ahmednagar on 16th Jan. 2006.
- Participated two days state level seminar on “Expanding Wings of Mathematics in the field of Basic Science, Engineering science and Medical science” held on 28th – 29th Dec. 2010 organized by the Dept. of Mathematics, Poona College, Pune and sponsored by BCUD, University of Pune.
- Attended District level Seminar on “Sustaining Health for Higher Throughput and Longevity” (with Eco-friendly, Scientific and Lifestyle strategies) held on 13th Feb. 2010 organized by the Department of Electronic Science, Poona College camp, Pune and sponsored by BCUD, University of Pune.
- Attended a State level seminar on “ Innovative Practices for Quality Enhancement In Higher Education” held on 6th and 7th Aug.2010 organized by IQAC Poona College camp, Pune and sponsored by National Assessment Accreditation Council(NAAC) Bangalore.
- Actively participated in the one day Seminar on restructuring of T.Y.B.Sc Physics syllabus jointly organized by Baburaoji Ghilap Mahavidalaya Sanghvi, Pune and Savitribai Phule Pune University, Pune on 28th Jan. 2015.
- Participated in the workshop of the draft for the revised syllabus of T.Y.B.Sc (Physics), University of Pune, organized by at the Dept. of Physics, Abasaheb Garware College, Pune on 23rd Sept. 1997.
- Actively participated in the workshop on “Preparation of Question Slips for Practical’s in Physics for T.Y.B.Sc” for University of Pune organized by the Dept. of Physics, Anantrao Thopte College, Bhor, Pune on 23rd Jan. 2005.
- Organized Study Tours for BSc students as per the syllabus of Savitribai Phule Pune University.
- Presented a paper on “Study of Pyroelectrical characteristics of semiconducting BaTiO₃” at a National conference of ‘Developments in electronics Materials and their Application’ organized by department of Physics, Shivaji University Kolhapur dated 6th-8th March 1995.(Proceeding g-p3, p-81).
- Presented a paper entitled “ Ferroelectric Phase Transition Temperature of semiconducting BaTiO₃ & Pb(Ti_{0.2}Sn_{0.8})O₃” at a National conference of ‘Developments in electronics Materials and their Application’ organized by department of Physics, Shivaji University Kolhapur dated 6th-8th March 1995.(Proceeding g-04, p-78).

EXTRA CURRICULAR ACCOLADES

- Helped Police personnel at several occasions to maintain discipline in the Pune District.

- Worked as a Presiding Officer during General Elections of Lok Sabha 1999.
- Conducted various social activities every year such as Blood Donation, Tree –Plantation programme, Anti Drug drive, Aids Awareness Program under National Service Scheme (NSS).
- Worked as a NSS Program Officer for the academic years 1994-95 to 2004-05.
- Member of various committees viz. Gymkhana, NSS, NSS-NCC, Discipline, Examination of the college.

INVITED TALK/CHAIRPERSON

- Delivered several talks at various International/National conferences in India. Also chaired various sessions of several National and International conferences at Algeria Turkey Thailand Malaysia Dubai .

MEMBERSHIP OF VARIOUS PROFESSIONAL BODIES

- Chairman, Science and Technology Advisory Committee, Indo Global Chamber of Commerce, Agriculture and Industries.
- Life member, Indian Science Congress.
- Life member, INAAR. (International Association of Academicians and Researchers).
- Life member, Scientific and Technical Research Association (STRA), Eurasia Research
- Member, Indian Physics Association.

DUTIES AND ROLES IN THE DEPARTMENT

- Preparing Academic Calendar for each academic Year.
- Counseling to the students during admission process and helping them as Career Counselor.
- Preparing solutions for Practical's according to the Workbook given by University Curriculum.
- Preparing question papers and conducting Internal Examinations, performing assessment and preparing the mark list and results as per the Departmental and head's Instruction.
- Systematic preparation of student's performance sheet, Attendance and records.
- Preparing PowerPoint Presentation and use of ICT in education for better understanding of syllabus.

AWARDS

*Received certificate of appreciation for “**Best Performance**” during NAAC visit in July .2004.*

***Best Teacher Award** by 39th World Management Congress & Awards-2018.*

***Exemplary Teacher Award** by Academicians & Researchers National Conclave & Awards- 2019*

Worked as In-charge, Kanya Mahavidyalaya, Kadegoan, Sangli. Work profile included setting up of the infrastructure of the college from scratch and subsequently facilitating teaching and non-teaching staff for the smooth conduct of day to day administrative and academic activities of this new college. The administrative and academic activities was for all the faculties of the college viz. Science, Arts and Commerce.

Personal

Date of Birth : 20/02/1962

Passport no: T4389400

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References:

1. Dr.Abbas Lokhandwala

Principal

Suryadatta Institutes of Management sciences

Bavdhan Pune.

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2. Prof.Shankar.I.Patil

Professor & Head

Department of Physics

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3. Prof. Mustafa OF

Professor & Head

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