

PROFILE

1. **Name:** Dr. Mohammed Afzal
2. **Department:** Physics
3. **Designation:** Principal, HOD (Physics)
4. **Date of Joining:** 16-7-1988
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7. Educational Qualifications:

Qualification	Title/Course	University	year
Ph.D	Nano-crystalline Mixed Metal Oxides thin films for gas sensor application	Gulbarga University, Gulbarga	2017
M.Sc	Physics (Solid State Physics)	Gulbarga University, Gulbarga	1988
B.Sc	Physics, Electronics, Mathematics	Gulbarga University, Gulbarga	1985

8. Positions Held:

- Principal since 2018
- Member Committee for Science and Technology, Akkamahadevi University, Vijayapur
- Chairman (for two terms) and Member (for two terms) Board of Examiners (BOE), Akkamahadevi University, Vijayapur.
- Member Board of Studies (BOS), Akkamahadevi University, Vijayapur(for three terms)
- Member LIC, Akkamahadevi University, Vijayapur.
- Co-ordinator for Central Evaluation, Akkamahadevi University, Vijayapur.
- Member, Indian Association of Physics Teachers.
- Vice- Principal, A.R.S. Inamdar College, Bijapur for 12 years.
- Member, Sports Advisory Committee, Akkamahadevi Women's University, Bijapur.
- Member Governing Council, SECAB Institute of Business Administration and Computer Application.

- Member, UGC Building Committee of the college
- Member, UGC Planning Board of the College.
- Has been working as resource person in physics for Orientation program for P. U College teachers conducted by Dept. of Pre University Education.

9. Teaching Experience: 30 years

10. Areas of Interest: Nano material, Thin Films, Gas Sensors, CNT, CVD.

11. Courses and Subjects Taught: B.Sc and PUC - Physics

12. Publications:

- 1) Mohammed Afzal ,P.S.Naik, L.I.Nadaf , Irfan N.Shaik,SnO₂- surfactant Composite Films for Superior Gas Sensitivity, SSRG International Journal Applied Physics, 3 (5),(2016) 1-5,. DOI- 10.14445/2350030/IJAP-V315P101.
- 2) Mohammed Afzal, P.S.Naik, S.S. Suryavanshi, L.I.Nadaf, Cost Effective Experimental Setup for Gas Sensing Applications. IOSR- Journal of Applied Chemistry, R812,(2015)37-44. DOI - 10.9790/5736-081223744.
- 3) Mohammed Afzal, P.S.Naik, S.S. Suryavanshi, L.I.Nadaf, Design and Fabrication of Low Cost and Miniaturized Setup for Gas Sensor. IOSR-Journal of Applied Physics. 7(2)(2015)39-45. DOI - 10.9790/4861-07233945.
- 4) L.I.Nadaf, K.S.Venkatesh, M.A.Gadyal, Mohammed Afzal, Polyaniline -Tin Oxide Nanocomposites: Synthesis and Characterization, Journal of Applied Chemistry, 9(2)(2016)55-61: DOI- 10.9790/5736-09225561.
- 5) S K Badiger, Omnath Patil, G B Mathapati, Mohammed Afzal, S M Hanagodimath, "Gas Sensing Mechanism and Characterization of Metal Sulphide Thin Films Using Chemical Spray Pyrolysis Method", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.5, Issue 4, Page No pp.987-989, December 2018,
- 5) Irfan N Shaikh, Umanr Rarooq,Shirajahammad M Hunagund, Imran N Shaikh, Mohammed Afzal Cu-catalyzed Rapid Synthesis of Novel Fluorinated Indole Derivatives Under Microwave Irradiation. Springer -Chemistry Africa s42250-018-0013-9.
- 6) A.M.Kamma, T.Subba Rao, Ambreensaba Mulla, Mohammed Afzal, Shiraj Ahammad Hungund , Photocatalytic degradation of solochrome Black dye: Enhanced performance of TiO₂ NPs due to doping of Cu-Co . LINO journal, Volume 11, Issue 01-2021.
- 7) A.M.Kamma, T.Subba Rao, Ambreensaba Mulla, Mohammed Afzal, Shiraj Ahammad Hungund , Effective Solochrome dye degradation using synthesized copper doped titanium dioxide nanoparticles, Journal of Advanced Scientific Research, volume 11(3),supl7: Oct-2020.
- 8) A.M.Kamma, T.Subba Rao, Ambreensaba Mulla, Mohammed Afzal, Shiraj Ahammad Hungund Photocatalytic degradation of Solochrome Black under UV light on Cobalt doped Titanium dioxide Photocatalysts, Journal of Engineering Sciences, Volume 11,Issue 07,July-2020(JES).

9) A.M.Kalamma, T.Subba Rao, Ambreensaba Mulla, Mohammed Afzal, Shiraj Ahammad Hungund , Synthesis and Characterization of Cu and Co Doped TiO₂Nanoparticles via Hydrothermal Route, Journal of Interdisciplinary Cycle Research, volume XII, Issue VI,June-2020 (JICR).

10) A.M.Kalamma, T.Subba Rao, Ambreensaba Mulla, Mohammed Afzal, Effect of Molarity on Structural, Morphological, Optical and Photocatalytic Property of (Cu_{1-x}-Co_x)-TiO₂ Nanoparticles Synthesized via Hydrothermal Method. Materials Today: Proceedings.

13. Conference/Symposia/Workshops Attended /Organised:

1) FDP for Undergraduate Science (Physics) faculty members organised by S.B. Arts and K.C.P. Science College , Bijapur from 23rd to 25th January 2012.

2) Two days state level seminar on Glimpses of Nano Science and Nano Technology organized by department of physics, Vijayanagar College Hosapete, on 16th and 17th March 2015.

3) One Day State level Seminar on Social responsibility toward building society organized by Social Science Department A.R.S. Inamdar College, Vijayapur, on 23rd February 2018.

4) One day National seminar on NAAC Revised Assessment and Accreditation framework organized by S.V.M. College , Ilkal on 24th March 2018.

5) Two day National seminar on Rejuvenation of Undergraduate education in India organized by National Institute of Advanced studies ,IISC Campus, Bangalore on 10 and 11 August 2018 .

6) Two Days National Workshop on Nanoscience: Fundamentals to basic applications organized by S.B.Arts and K.C.P.Science College, Vijayapur on 21st and 22nd February 2019.

7) One day National seminar on Sir Syed Ahmed Khan , Aligarh Movement and importance of Education organised by SAF , Aligarh Muslim University on 14th November 2019.

8) One day Multidisciplinary National Conference on Contemporary Trends and Concepts in Social Science/Science/Commerce & linguistics organized by Anjuman Arts, Science, Commerce College & studies in English, Vijayapur 20th February 2021.

9) Chaired One day Multidisciplinary National Conference on Contemporary Trends and Concepts in Social Science/Science/Commerce & linguistics organized by Anjuman Arts, Science, Commerce College & studies in English, Vijayapur 20th February 2021

14. Staff training by University/other Institutions:

1. Orientation Programme at Hyderabad Central University, Hyderabad.
2. Refresher Course in Physics at Hyderabad Central University, Hyderabad.
3. Refresher Course in Nanomaterials and Nanoscience at Karnataka University, Dharwad.
4. Refresher Course in Material Science at University of Mysore
5. Orientation Course for Principals of Minority Institutions at NUEPA, New Delhi
6. Workshop for Principals organised by Karnataka Higher Education Council at Karnataka University, Dharwad.

15. Participation in Curriculum Restructuring: ---

- 1) Worked as Member BOS in Physics (UG) Karnataka State Akkamahadevi Women's University, Vijayapur.
- 2) Participated in workshop in designing of Physics curriculum for B.Sc course at V.G. Women's College, Gulbarga.
- 3) Presently on BOS in Physics (UG) Karnataka State Akkamahadevi Women's University, Vijayapur.

16. Corporate Participation at the College Level:

- Chairman, IQAC and all the committees of the college (by virtue of Principal).

17. Research Projects:

- University Grants Commission (UGC) sponsored Minor Research Project on Preparation of Mixed Metal oxides for Gas Sensor Applications.
- Vision Group on Science and Technology (VGST) sponsored Major Research Project on Synthesis of Carbon Nano Tubes for water purification of Vijayapur and its surroundings.

18. Additional Information: Developed Research Laboratory and Instrumentation Centre.