Dr. A. Pandiaraj

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Objective

Passionate and dedicated teacher, seeking a position as PGT in a reputed organization. To use Previous academic experience, creative teaching approach to strengthen student's knowledge in Physics and also to become a king maker of a prestigious institution.

Summary

- Knowledgeable, creative and innovative Teacher with more than 20 years of experience in teaching of Physics.
- Skilled in all aspects of classroom operations, curriculum development, evaluation of students' progress, coordination with faculty, parents, and administration, facilitation of positive learning environments and related administrative duties.
- Experienced in diverse education settings, working with students from all learning levels and socioeconomic backgrounds.
- Committed to teaching to meet individual student's needs, and keeping parents informed of the progress of their wards. Offer ideas and materials to continue their educational process and higher education.

Distinctive Achievements

- One Centum in Physics
  2021 - 2022 Batch Grade XII
- One Centum in Physics
  2006 - 2007 Batch Grade XII
- 4 Academic years Produced centum in Physical Science
  2006 – 2010 Grade X (Matric Board)

Academic Teaching Experience (School Education) 14 yrs

- Vedanta Academy Senior Secondary School (CBSE Curriculum)
  PGT in Physics (April 2023 – Present)
- Nagarathinam International School of Excellence (ICSC Board) Peelamedu, Coimbatore.
  PGT in Physics (June 2022 – March 2023)
- Trinity Matric Hr. Sec School, Coimbatore Dt.
  PGT in Physics (June 2020 – May 2022)

- Holy Family Convent Matric Hr. Sec School, Coimbatore Dt.
  PGT in Physics (June 2016 – April 2020)
- Jaycees Matric Hr. Sec School, Moolapalayam, Erode Dt
  PGT in Physics (June 2007 – March 2010)
- KKP Matric Hr. Sec School, Muthur, Tirupur Dt.
  PGT in Physics (June 2006 – March 2007)
- PA Vidya Bhavan Hr. Sec. School, Karur Dt.
  P G Assist in Physics (October 2005 – April 2006)
- Chidambaram Matriculation Hr. Sec. School, Valayapatti, Pudukkottai Dt.
  P G Assist in Physics, (Oct2004 – Sept 2005).

Academic Teaching Experience (Higher Education) 5 yrs

Karpagam Academy of Higher Education – Deemed to be University **Assistant Professor in the Department of Physics, Faculty of Engineering)** August 2012 – March 2016

- Served as an Assistant Professor of Physics with an emphasis on students' good at using of Physics laboratory apparatus, and keen on active students' participation in the learning process through practical techniques.
- Caring for classroom interest, motivation, participation, and discipline through innovative and creative teaching techniques. Duties include lecturing, monitoring students and keeping parents informed of students' progress, curriculum development, preparation of lesson plans, preparation of time table, coordinating exams and evaluating the performance of students.
- Coordinated with students, parents, volunteers, and educational professionals to ensure consistent educational quality and provide with developmental opportunities by organizing workshops.

Dr Nalini Institute of Engineering and Technology **(Assistant Professor in the Department of Physics)**
July 2012 – March 2016

- Served as a Assistant Professor in Physics with Focus on effective teaching of Engineering Physics Theory and Practical's.

Gandhigram Rural Institute – Deemed to be University **(Guest Lecturer In physics)**
July 2011 – March 2012

- Served as a Guest Lecturer in the Rural Technology Centre Teaching of Engineering Physics Theory and Practical's.

Additional Responsibilities

- Board of Studies member (2014-2016)
- S&H Department Exam Cell Co-Ordinator (2014- 2016)
- IQAC cell in charge (2016 - 2018)
- School Magazine Editorial committee member (2019-2020)

Publications in International Journals

- **Pandiaraj A**., Ibrahim, M. M.,Jothivenkatachalam, K., & Kavinkumar, V. (2023). Photoelectrochemical Water Splitting Over Decahedron Shaped $BiVO_4$ Photoanode by Tuning the Experimental Parameters. *Journal of Cluster Science*, *34*(1), 557- 564
- **Pandiaraj A**., & Ibrahim, M. M. Electrochemical studies on $CuBi_2O_4$ nanomaterial prepared by hydrothermal technique.

Publications in International and National Conference

- **A. Pandiaraj**, M. Mohammed Ibrahim, Study on Optical and Electrochemical property of Bi2Wo6 Nanomaterial prepared by hydrothermal technique. International conference on "FOOD, BIO, NANO MATERIALS (ICFBN'23) Faculty of Engineering Karpagam Academy of Higher Education Coimbatore on March 17-18 ,2023. (**Best Oral Presentation Award**).
- **A. Pandiaraj**, *M.Mohamed Ibrahim, M.Anujency, Priyadharshini ,Synthesis characterization and photocatalytic application on CuBi2O4 nanomaterial prepared by hydrothermal technique, National Conference on Scientific input, technological advancement and women Empowerment for Sustainable Development Feb -2023.
- M Mohamed Ibrahim, M Anujency, **A Pandiaraj** and R Ranjithkumar Green Techniques for Synthesis and Characterization of Zinc Oxide Nanoparticles International Journal of Innovation in Advanced Physics IJIAP Volume 01, Issue 02, October 2021, pp.52-57.
- M Mohamed Ibrahim, M Anujency, **A. Pandiaraj**, Betty Anna Thomas, P U Anusha, Green Route to Synthesize Zinc Oxide Nanoparticles Using Leaf Extract of Hibiscus and Their Antibacterial Activity APRR International E-Conference on Materials Processing & Characterization-2020.
- P. Vikraman, **A. Pandiaraj** Perovskite structure based Filler impregnated Pvdf – Hfp Micro Composites for Lithium-ion batteries, 55th Solid State Physics Symposium Manipal University, Manipal, Karnataka on December 26-30,2010.

participated International, national Conference, symposium and workshops

- Webinar on "Arriving at the Sweet Spot-Stat Ease Design Expert Software and Electrochemical Workstation" organized by Bharat Ratna Prof.C.N. R Rao Research Centre, held on January 8, 2022 at Bharat Ratna Prof. CNR Rao Research Centre, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-641043.
- Virtual National workshop on "UV Bio spec and 3D Optical Profilometer" organized by Bharat Ratna Prof.C.N. R Rao Research Centre, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore on 2.8.2021.
- NEED BASED CERTIFICATE PROGRAM entitled "LUMINESCENCE SPECTROSCOPY" organized by Department of Physics, Kongunadu Arts and Science College (Autonomous), Coimbatore from 15-03-21 to 19-03-21.
- INDO – US Workshop on Nanosonics And Ultrasonics (IUWONU) & International Conference on nanotechnology and Ultra Sound (ICNU) Organized by Department of Physics St. Josephs College (Autonomous) Tiruchirappalli-620002 On 12-14 January 2011.
- ICMRR Sponsored National workshop on Nanoscience and Nanotechnology NWNSNT -2016 organized by Centre for Nanoscience and Nanotechnology, Pondichery University. Pondichery-605014 on March 3-5, 2016.
- UGC Networking Program Workshop on Electronic and Ionic Materials and Devices organized by Department of Physics, Banaras Hindu University, Varanasi, UP-221005 on Marsh 25-27, 2011.
- One day Workshop on "Recent Developments in Nano technology and its Applications "Organized by Kodaikanal Institute of Technology Kodaikanal. On April 9, 2011.
- National Workshop on Radio Chemistry and Applications of Radio isotopes Sponsored by Board of Research in Nuclear Science (BRNS), DAE conducted jointly by Department of physics Gandhigram rural institute - DU and Indian Association of Nuclear Chemists and allied Scientists during September 20-26, 2010.
- Science Symposium for Teachers organized by Tamilnadu catholic Educational Association, 25 Rotary Church Road, Santhome Chennai -60004 on November 4 & 5, 2017.
- DST - CURIE and ROYAL SOCIETY OF CHEMISTRY sponsored Workshop on "X-RAY CRYSTALOGRAPHY" Organized by Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-641043.on 16th March 2019.
- DST CURIE Sponsored One day Training Program on "Field Emission Scanning Electron Microscope" (FESEM) on 4th May 2019.

- Orientation Program on Self Instructional Material for Visually Impaired Organized by Faculty of Engineering, Department of Science and Humanities, Karpagam Academy of Higher Education and District differently abled welfare office Coimbatore on 22nd August 2015.
- Short Course on "Digital Photoshop" Organized by department of Adult Continuing Education and Extension, Gandhigram Rural Institute and Deemed to be University, Gandhigram-624302 from 9 December 2010 to 23 December 2010.

Academic Qualification

Course	Year	Subject	Class	University
Ph.D.	2023	PHYSICS	--	Bharathiyar
M.Phil.	2010	PHYSICS	Second	Manonmaniyam sundaranar
B.Ed.	2005	PHYSICS SCIENCE	First	MPBOU - Bhopal
M.Sc.	2002	PHYSICS	First	Madurai Kamaraj
B.Sc.	2000	PHYSICS	Second	Madurai Kamaraj

Research Title

Synthesis and Characterization of Bismuth based metal oxides and their Electrochemical and Photoelectrochemical studies.

Personal Details

Date of Birth & Age : 15.06.1980 & 44

Gender : Male

Nationality : Indian

NCC : **B** Certificate

Languages Known : English & Tamil

Declaration

I hereby declare that the information furnished above is true.

Date : 26.11.24 Pandiaraj. A

Place : Coimbatore