

Dr.Thangavel Krishnasamy
 73, R.K.Naidu Layout
 Venkittapuram, Coimbatore - 641 013.

Krishnavel1970@gmail.com

Contact #: 8778374727, 944 238 7348



Objective

- Aspiration to take responsibilities and to pursue career in Administration and Research.
- Looking for challenging Leadership role in reputed institutions utilizing my prior experience.

Education and Experience:

Educational Qualification	M.Sc., M.S., M.Phil., P.G.D.C.A., Ph.D.
Work experience-Teaching	<ul style="list-style-type: none"> ❖ Assistant Professor, Department of Electronics, CMS College of Science & Commerce, Coimbatore - 13 Years. ❖ Professor & Head, Department of Electronics, Hindusthan College of Arts & Science, Coimbatore - 4 Years. (Current)
Additional Work Experience	<ul style="list-style-type: none"> ❖ Distance Education Coordinator - Bharathiyar, Bharathidasan, Madras & Annamalai University. ❖ NAAC steering committee member
Subjects taught	Applied Electronics, Software Engineering, and Satellite Communication, Semiconductor devices, Television Electronics, Bio medical engineering and more.
Areas of specialization	Nano Science and Technology, Nano Metal oxides, Instrumentation design & Nano thin films.
Instruments designed	Microcontroller Based Electrospinning Nanofiber Generator.
Ph.D. Research topic	Design of Microcontroller Based Nanofiber Generator, Fabrication, Characterization and Application of Metal Oxide Nanofibers.
R & D Projects	<ul style="list-style-type: none"> ❖ Submitted Research Projects to UGC. ❖ 2 NGO projects received and completed successfully.
Academic activities	<ul style="list-style-type: none"> ➤ Staff Selection Committee Member. ➤ IQAC Auditor ➤ Board of Studies Member in 7 universities and colleges. Recognized Guide for MPhil and Ph.D. Degree in Electronics. ➤ Course Coordinator. ➤ College Inspection Commission member. ➤ Maintenance, Ethical, and Discipline Committee Member.

Research Publications and Accomplishments:

No. Of Papers in Conferences	❖ International Conferences: 12 ❖ National Conferences: 15.
No. Of Conferences and symposiums Organized	4
Board of Studies Member	5 Autonomous colleges
Awards achieved	❖ Achieved Best Paper Presentation Award in Smart Materials, Composites, Applications and New Inventions from 3rd International conference Pune University, (Nanocon 2014). ❖ Best Researcher Award ❖ Guru Vandhanam Award from HICAS
National Level Workshop Organized and Attended	10
No. Of FDP Organized and Attended	15
No. Of Invited talks	5
Guest Lecture	5

Research Interest:

- Nanoscale materials and ultra-thin films.
- Structural, Morphological, Optical and Thermal property determinations for particles and materials.
- Material synthesis, Powder and thin film characterization.
- New Instrumentation Design.

International Journal Publications:

- **K. Thangavel**, A. Balamurugan, T. Venkatachalam, E. Ranjith kumar, Structural, morphological and optical properties of ZnO nanofibers, Super lattice and Microstructures, 90, pp. 45-52, (ISSN 0749-6036), (2016).
- **K. Thangavel**, R. Kannusamy, A. Balamurugan, R. Mahendran, Design and Construction of Micro-Controller Based Electrospinning Nanofiber Generator, Advanced Science Letters, (ISSN: 1936-6612), (2016).
- **K. Thangavel**, A. Balamurugan, M. Elango, P. Subramaniam, M. Senrayan, A survey on nano robotics in- nano medicine Journal of Nanoscience and Nano Technology, Volume-2, Issue-5, pp. 525-528, (ISSN 2279-0381), (2014).
- S. Poonguzhali, K. Gopalakrishnan, **K. Thangavel**, M. Gandhimathi, Synthesis, characterization and application of pani and fly ash composites, Journal of Nanoscience and Nano Technology, Volume-2 Issue-1, pp. 58-61, (ISSN- 2279-0381), (2014).
- C. Selvakumar, T. Venkatachalam, E. Ranjith Kumar, **K. Thangavel**, Study of Cd_{1-x}Sn_xTe Thin Films Prepared by Closed Space Sublimation, Journal of Advanced Physics, Volume-5, pp. 1-6, (ISSN 2168-1996),(2016).

International Conference Publications:

- **K. Thangavel**, A. Balamurugan A novel of Controlled nanofiber generator using microcontroller, International conference Bharathiar University, Coimbatore, (2013).
- **K. Thangavel**, R. Kannusamy, A. Balamurugan , M. Elango, Design and construction of microcontroller based electrospinning nanofiber generator, Bharati Vidyapeeth Deemed University, Pune (Nanocon - 2014).
- **K. Thangavel**, A. Balamurugan, N. Priyadharsini, M. Elango, Fabrication and physical characterization of Zn (OH) 2/PVA and ZnO nanofibers using Electrospinning nanofiber generator, International Conference on Interdisciplinary Research in Electronics and Instrumentation Engineering, pp.26-31, (ISBN 978-81-929866-3-0), (ICIREIE 2015).
- **K. Thangavel**, A. Balamurugan, R. Kannusamy, Structural, thermal and optical properties of ZnO nanofiber through electrospinning, International Conference on Nanospace Materials from fundamental to Advanced Applications - **Taipei Taiwan (2015 ICNM)** .
- **K. Thangavel**, A. Balamurugan, T. Venkatachalam, design and fabrication of controlled nanofibers targeted for medical applications, International conference on nanomaterials and nanotechnology (NANO - 2015).
- **K. Thangavel**, T.Roshini, E.Ranjith kumar, Fabrication of Tin Oxide by electro spinning generator, Springer proceedings in physics book series (SPPHY-Volume- 189).

Summary:

- **17 years** of teaching experience with seminar and workshop knowledge in computer science and electronics department in various colleges.
- Working as a **Professor and Head of Electronics Department** and working as a **Distance Education Coordinator** for multiple Universities.
- **7 years** of extensive fulltime research experience in electrospinning technology that includes developing polymer based **Nano Composite Nanofiber fabrication** and optimizing the various input parameters.

Research Experience:

- Experience in electrospinning nanofiber generator design - defining domains and collecting training data sets, defining algorithm, identify and develop portable and high efficiency devices, guiding the software development team to write efficient codes for prototyping as well as for final product.
- 3+ years of experience in Antibacterial resistivity testing and familiarity with Agar diffusion method, Parallel streak method and Well diffusion method.
- Guiding M.Phil and Ph.D candidates under Bharathiyar University.
- Hands on experience in several metal oxide nanofiber analysis towards new optical nanosensor device fabrication research.
- Familiarity with Structural characterization, Morphological characterization, Thermal characterization and Optical characterization.
- Excellent exposure to sol-gel synthesis and thin film materials.
- **Domains:** Electronics,Electrospinning technology with various metal oxide nanofiber fabrication, various analytical and spectroscopy techniques such as X-ray diffraction, Fourier transform infrared spectroscopy (FTIR), FE-SEM/EDX, HRTEM/EDX, Photoluminescence spectroscopy, UV-Vis absorption spectroscopy and Thermogravimetric analysis, software engineering and more.
- Proficiency in documenting process, summary reports and grant proposals. Excellent presentation and communication skills.

Administrative Experience / Skills:

- Leading Department of Electronics and mentoring around 15 staff members.
- Established Department and Laboratory of Physics with Under graduation and Post Graduation programs. Continue mentoring the department for the last 3 years.
- Took over the responsibility of Distance Education Coordinator for multiple universities including Bharathiyar University.
- Leading and Conducting the Distance Education Examination Cell.
- Acting as a NAAC Steering Committee member for Criteria 3.
- A self-motivating hard working individual with a positive attitude, thrive for knowledge and leadership skills.
- Ability to establish and maintain multiple priorities and tasks at the same time.
- Capability to work aggressively in a fast paced environment while aiming for excellence.

References:

1. Dr. T.Venkatachalam, Associate Professor, Department of Physics, Coimbatore Institute of Technology, Coimbatore India. Ph: 011-91-9791535943,
email: atvenkatachalam.phy.cit@gmail.com
2. Dr. J.Prakash Manuel Joe, Professor and Head, Department of Electronics, PSG CAS, CoimbatoreIndia. Ph: 0422 430 3300