

RESUME

Name : Dr. S. Manisha Vidyavathy
Designation : Associate Professor
Date of Birth : 11.10.1974
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New Perungalathur, Chennai - 63
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Academic Qualification:

Course	Educational Institution	Class	Year of Passing
Ph. D Ceramic Technology	Anna University	-	2009
M. Tech Ceramic Technology	Anna University	First	1999
M. Sc Material Science	Anna University	First Class with Distinction	1997
B. Sc Physics	Anna Adarsh College for Women	First	1995

Areas of Interest/Research:

- Advanced Structural ceramics
- Electronic ceramics
- Traditional ceramics

Academic Experience:

S.No.	Designation	Institution / University	Duration
1.	Teaching Fellow	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	Dec 2000 to March 2002
2.	Teaching Research Associate	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	March 2002 to Feb 2005

3.	Lecturer (Contract)	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	Feb 2005 to Nov 2008
4.	Assistant Professor	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	Oct 2008 to Nov 2014
5.	Associate Professor	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	Nov 2014 to Till Date

Funded Research Projects:

Funding Agency	Title of the Project	Amount	Ongoing/ Completed
Tamilnadu State Council for Science & Technology – Student Project Scheme	Utilization of Paper Mill Waste in Ceramic Products	6,000/-	Completed
Tamilnadu State Council for Science & Technology – Student Project Scheme	Development and Characterization of Ceramic Membranes in the CaO-Al ₂ O ₃ - SiO ₂ Compositional System from Coal Fly Ash	6,000/-	Completed
CTDT, Anna University Chennai	Utilization of Granite and Marble Waste in Ceramic Tile Production	25,000/-	Completed
CTDT, Anna University, Chennai	Effect of Spark Plasma Sintering on the Dielectric Behaviour of Barium Nanoparticle Prepared by Mechanochemical Method	25,000/-	Completed
CTDT, Anna University, Chennai	Development of Ceramic Tiles using Chromium Containing Sludge Recovered from Tanning Industry	50,000/-	Completed
DST	Development of High Strength Insulating Castables for Hot Face Applications	31.72 lakhs	Completed
CTDT, Anna University, Chennai	Synthesis and Study on Dielectric Properties of Barium Samarium Lanthanum Titanate for Multilayer Ceramic Capacitors	25,000/-	Completed
CTDT Anna University Chennai	Removal of heavy metal ions by red clay	25000/-	Completed

CTDT Anna University Chennai	Clay based water filter	25000/-	Completed
CTDT Anna University Chennai	Utilization of recyclable glass waste in ceramic glaze preparation	25000/-	Completed
CTDT Anna University Chennai	Carbon dioxide sequestration by forsterite	25000/-	Completed
CTDT Anna University Chennai	Synthesis and characterization of zirconia substituted barium cerates doped with copper and magnesium as an electrolyte for solid oxide fuel cell	25000/-	Completed
CTDT Anna University Chennai	Porous Ceramic Tables for water purification	25000/-	Completed
CTDT Anna University Chennai	Development of Rare Earth Zirconates ($\text{Re}_2\text{Zr}_2\text{O}_7$) and Aluminates (ReAlO_3) Re= La, Gd, Nd, Y through solid state high energy milling for Thermal Spray Coating Applications	25000/-	Completed
CTDT Anna University Chennai	Effect of Boron nanotubes reinforcement on the Toughening and wear behaviour of zirconia ceramics	25000/-	Completed
CTDT Anna University Chennai	Fabrication of Super Capacitor by Coating a Thin Film of Nano Barium Titanate in Electrode by Spin Coating Process	20,000	Completed
CTDT Anna University Chennai	Development of Ceramic Carbon Resistors for High Voltage Circuit Breakers	25000/-	Completed
CTDT Anna University Chennai	Using Fly Ash in Water Treatment Process	25000/-	Ongoing
CTDT Anna University Chennai	Self Cleaning Tiles	25000/-	Ongoing
CTDT Anna University Chennai	Preparation of Artificial anti Fog Glass by Vapor Deposition by Mimicking Mosquito Eye.	25000/-	Ongoing

LIST OF PUBLICATIONS

International / National Journals:

1. **S.Manisha Vidyavathy** & Dr.V.Kamaraj, "Microwave Sintering of Niobium Co-doped Yttria Stabilized Zirconia" Modern Applied Sciences, Volume 3, No 6, pp.102-105, (2009)
2. **S.Manisha Vidyavathy** & V. Kamaraj, "Fracture Toughness and Ionic Conductivity of Niobium Co-doped Yttria Stabilized Cubic Zirconia", International Journal of Materials Science, Volume 5, No 2, pp.203 – 208,(2010)
3. S. Sakthivelu, **S.Manisha Vidyavathy** & P.Manohar, "Effect of Polyvinyl Alcohol on Stability and Rheology of Nano Kaolinite Suspensions", Transactions of Indian Ceramic Society, Volume 71, No 4, Pages175 – 180, (2012)
4. T. Sundarajan, **S.Manisha Vidyavathy** & S.Balasivanandha Prabu, "Combined Effects Of Milling And Calcination Types On The Properties Of Barium Titanate Nanoparticles And Their Characterizations", Materials Research Bulletin, Volume 47, Pages 1448 – 1454, (2012)
5. T. Sundararajan, S. Balasivanandha Prabu, **S Manisha Vidyavathy**, " Effect of sprak plasma sintering on the dielectric behaviour of Barium Titanate Nanoparticels, Ceramic Transactions, Vol. 235, pp. 161-166, (2012)
6. G.Venkatesh, D.Thenmuhil, **S.Manisha Vidyavathy** & R.Vinothan, "Effect of Addition of Nano- Zirconia in Ceramic Glazes", Journal of Advanced Material Research, Vol 984 – 985, pp 488 – 494, (2014)
7. D.Thenmuhil, **S.Manisha Vidyavathy**, "Influence of Nickel Oxide Additive on the Properties of Sol-Gel Prepared Aluminium Borate Whisker", Journal of Advanced Material Research, Vol 984 – 985, pp 238 – 242, (2014)
8. Srinivasulu K & **Manisha Vidyavathy S**, " Influence of Normal Load on the Wear Behaviour of Yttria Stabilized Zirconia Coating" Journal of Chemical and Pharmaceutical Sciences, Special issue 7, pp. 88-91, (2015)
9. Subramanian Yuvaraj, Samar Layek, **S. Manisha Vidyavathy**, Selvaraj Yuvaraj, Danielle Meyrick, R. Kalai Selvana, Electrical and magnetic properties of spherical SmFeO₃ synthesized by aspartic acid assisted combustion method, Materials Research Bulletin, Volume 72, pp. 77-82, (2015)
10. Umapriya R Arthanareeswaran G, **Manisha Vidyavathy S**, Aparna Vijayan, "Effective abatement of Textile effluent using nanoporous ceramic membrane" Int. Jou. Applied Engg. Research, Vol.10 issue 77, pp. 303 - 308, (2015)
11. Umapriya, Manisha Vidyavathy, Arthanareeswaran, Aparna Vijayan, " Preparation and

- characterization of low cost mixed matrix membrane for wastewater treatment", Journal of Chemical and Pharmaceutical Research, Vol. 7, issue 10. pp. 178 - 186, (2015)
12. Srinivasulu K, **Manisha Vidyavathy S**, "Advanced Ceramic Coatings on Stainless Steel: A review of Research, Methods, Materials, Applications and Opportunities" International Journal of Advanced Engineering Technology, Volume 7, issue 3, pp.126-141 (2016)
 13. Srinivasulu K, Balasubramani K, **Manisha Vidyavathy S**, "Effect of process parameters on the phenol removal rate from petrochemical effluents using Electrochemical method", Journal of Chemical and Pharmaceutical Research, Volume 8, issue 1, pp. 529 – 536 (2016)
 14. Srinivasulu K, **Manisha Vidyavathy S**. "Microstructure and Thermal Wear behaviour of Plasma Sprayed Fly ash Coating on AISI 304 Stainless Steel", International Journal of Engineering Research & Technology, Volume 5, issue 1, pp. 471 – 476 (2016)
 15. M. Kalirajan , R. Ranjeeth , R. Vinothan , **S. Manisha Vidyavathy** , N.R. Srinivasan, "Influence of glass wastes on the microstructural evolution and crystallization kinetics of glass-ceramic glaze", Ceramics International, Vol. 42, issue 16, pp. 18724 - 18731, (2016)
 16. Srinivasulu K, **Manisha Vidyavathy S**, "Advanced Ceramic Coatings On Stainless Steel: A Review Of Research, Methods, Materials, Applications And Opportunities", International Journal of Advanced Engineering Technology, published by Technical Journals Online Group. Vol. 7, Issue 3, pp. 126-141 (2016).
 17. Srinivasulu K, Balasubramani K and **Manisha Vidyavathy S**, "Effect of process parameters on the phenol removal rate from petrochemical effluents using electrochemical method", Journal of Chemical and Pharmaceutical Research, published by JOCPR. Vol. 8, Issue 1, pp. 529-536 (2016).
 18. Srinivasulu K, **Manisha Vidyavathy S**, "Microstructure and Thermal Wear behaviour of Plasma Sprayed Fly Ash Coating on AISI 304 Stainless Steel", International Journal of Engineering Research & Technology, published by ESRSA Publication. Vol. 5, Issue 1, pp. 471-476 (2016).
 19. Srinivasulu K, **Manisha Vidyavathy S**, "Effect of different calcination techniques on morphology and power flowability of Rare-Earth zirconates synthesized by solid state high energy ball milling process", Journal of Ceramic Processing Research, published by Hanyang University. Vol. 20, Issue 1, pp. 8-17 (2019).
 20. Srinivasulu K, **Manisha Vidyavathy S**, "Microwave assisted synthesis and power flowability characteristics of Rare-Earth aluminates (ReAlO₃, Re= La, Gd, Nd, Y) powders", Transactions of the Indian Ceramic Society, published by Taylor and francis. Vol. 78, Issue 1, pp. 13-19 (2019).
 21. Alphas Jebasingh J, Stanley R, **Manisha Vidyavathy S**, " Low temperature titania nano particles for high performance solar photo degradation", Optik, published by Elsevier. Vol. 179, pp. 901-908 (2019).
 22. Stanley R, Alphas Jebasingh J, **Manisha Vidyavathy S**, "Enhanced sunlight photocatalytic degradation

- of methylene blue by rod-like ZnO-SiO₂ nanocomposite", *Optik*, published by Elsevier. Vol. 180, pp. 134-143 (2019).
23. Swetha Andra, Satheeshkumar Balu, Rajalakshmi Ramoorthy, Murugesan muthalagu, **Manisha Vidyavathy S**, "Terminalia bellerica Fruit Extract Mediated synthesis of Silver Nanoparticles and their Antimicrobial activity", *Materials Today Proceesings*, published by Elsevier. Vol. 9, Issue 3, pp. 636-644 (2019).
 24. Swetha Andra, Satheeshkumar Balu, Jaison Jeevanandham Murugesan Muthalagu, **Manisha Vidyavathy**, Yen San Chan Michael Kobina Danquah, "Phytosynthesized metal oxide nanoparticles for pharmaceutical applications", *Naunyn-Schmiedeberg's Archives of Pharmacology*, published by Springer Berlin Heidelberg. pp. 1-17 (2019).
 25. Umapiya R, **Manisha Vidyavathy S**, Arthanareeswaran G, Rohan J and Poorna A R, "Performance and characteristics study of PES/ZrSiO₄ and PES/SiO₂ membrane for tannery and textile effluent treatment", *Journal of Ceramic Processing Research*, published by 300. Vol. 20, Issue 3, pp. 291 (2019).
 26. R Umapiya, J Rohan, **Manisha Vidyavathy S**, G Arthanareeswaran, "A novel method: mixed matrix membrane—An overview" *Journal of Ceramic Processing Research* 21 (3), 309-318 (2020)
 27. Satheeshkumar Balu, Swetha Andra, **Manisha Vidyavathy S**, S Kannan, M Muthalagu, "Facile synthesis of silver nanoparticles with medicinal grass and its biological assessment" *Materials Letters* 259, 126900 (2020)
 28. Satheeshkumar Balu, **Manisha Vidyavathy S**, Swetha Andra, J Jeevanandam, "Facile biogenic fabrication of hydroxyapatite nanorods using cuttlefish bone and their bactericidal and biocompatibility study" *Beilstein journal of nanotechnology* 11 (1), 285-295 (2020)
 29. JA Jebasingh, R Stanley, **Manisha Vidyavathy S**, "Sol-gel preparation of surfactants assisted titania for solar photocatalysis" *Materials Letters* 279, 128460 (2020)
 30. Satheeshkumar Balu, Swetha Andra, J Jeevanandam, **Manisha Vidyavathy S**, V Sampath "Emerging marine derived nanohydroxyapatite and their composites for implant and biomedical applications" *Journal of the Mechanical Behavior of Biomedical Materials*, 104523 (2021)
 31. Satheeshkumar Balu, V Sampath, Swetha Andra, S Alagar, **Manisha Vidyavathy S**, "Fabrication of Carbon and Silver Nanomaterials Incorporated Hydroxyapatite Nanocomposites: Enhanced Biological and Mechanical Performances for Biomedical Applications" *Materials Science and Engineering: C*, 112296 (2021)

International / National Conference/Seminars/Symposium:

1. **S.Manisha Vidyavathy**, D.Thenmuhil, Dr.P.Manohar, "Synthesis and Characterization of Sol Gel Derived Zirconia – Hydroxyapatite Composites by Conventional and Microwave Sintering, Proceedings of the AMN-Fifth International Conference on Advanced Materials and Nanotechnology, February 2011, New Zealand

2. T.Sundararajan, **S.Manisha Vidyavathy**, S.Balasivanandha Prabhu, “Microwave Assisted Synthesis and Characterization of Barium Titanate Nanoparticles for Multilayer Ceramic Capacitor Applications” , International Conference on Materials for Advanced Technologies”, 26th June – 1st July 2011, Suntec, Singapore
3. T.Sundararajan, **S.Manisha Vidyavathy**, S.Balasivanandha Prabhu, “Sintering Studies on the various properties of Barium Titanate Nanoparticles Synthesized by a Novel Technique”, International Conference on Materials for Advanced Technologies”, 26th June – 1st July 2011, Suntec, Singapore
4. **S.Manisha Vidyavathy**, T.Sundararajan, S.Balasivananda Prabu, Jothimani Aravind Joshwa, J. “Effect of Spark Plasma Sintering on the dielectric behaviour of nanostructures BaTiO₃, Material Science & Technology Conference, Ohio, USA, 16-20th October 2011
5. Srinivasulu K, **Manisha Vidyavathy**, “Comparison on Sliding Wear behaviour of 8 wt% YSZ and Fly ash Coatings on AISI 304 Austenitic Stainless Steel by Plasma spray process”, Proceedings of the International Conference on Advances in Mechanical Engineering with ISBN 9789385477294, Volume 2, pp. 698 - 702 organized by Department of Mechanical Engineering, University College of Engineering, Villupuram during 15th – 16th October 2015
6. R.Vinothan & **S.Manisha Vidyavathy**, “Study on Protection against Nanoparticles Penetrating into the Human Body”, Proceedings of the National Level Conference on Nanotechnology, Erode, August 2008
7. R.Vinothan, **S.Manisha Vidyavathy**, C.Kannan, D.Thenmuhil, “Behaviour of Chemically prepared Zinc Oxide Nanoparticles in Sanitaryware Glazes”, Proceedings of the International Symposium on Advanced Nanomaterials, December 2010
8. T.Viswanathan, **S.Manisha Vidyavathy**, “A Review on Development of Polymer Electrolyte Membrane Fuel Cell using Platinum Nano Wire”, Proceedings of ChemCon 2010, Annamalai University, Chidambaram, December 2010.
9. S.Ananthi, Divya Sreenivasan, **S.Manisha Vidyavathy**, “Development of Ceramic Nanofibers using Electrospinning Method for Dye Sensitized Solar Cell Applications”, Proceedings of the National Symposium on Ceramics: Energy and Environment and 74th Annual Session of the Indian Ceramic Society, Kolkota, January 2011
10. R.Archana Devi, S.Kalaivani, R.Iswarya, **S.Manisha Vidyavathy**, “Utilization of Granite and Marble Waste in Ceramic Tile Production”, Proceedings of the National Symposium on Ceramics: Energy and Environment and 74th Annual Session of the Indian Ceramic Society, Kolkota, January 2011

11. R.Vinothan, M.A.Nixon Babu, **S.Manisha Vidyavathy**, "Preparation of Nanoquartz by Mechanical Milling and Study its Behaviour on Ceramic Tile Glazes", National Conference on Nanoscience and Engineering for Better Ceramics, Bangalore, June 2011
12. T.Viswanathan, **S.Manisha Vidyavathy**, "Synthesis and Characterisation of Calcia Stabilized Zirconia and Hydroxyapatite by Sol-Gel Method", Proceedings of the 2nd National Conference on Multifunctional Nano Materials and Nano Composites, Bharthiyar University, Trichy, March 2011.
13. S.Gowthami, S.Kalaivani, T.Anusha, A.G.Kavith Arun, R E Iniyavan, T. Vishnuvaradhan, **S.Manisha Vidyavathy**, "Production of Characterization of Ytria stabilized Zirconia Nano fibres by electro spinning method - 75th Annual session of the Indian Ceramic Society, 20th – 22nd Dec. 2011, Agra.
14. R.Iswarya, Divya Sreenivasan, **S.Manisha Vidyavathy**, "Development of Ceramic Bodies from Waste Glass", National Conference on Materials Engineering, PSG College of Technology, Coimbatore, February 2012
15. R.Vinothan, **S.Manisha Vidyavathy** & R.Karkuzhali, "Synthesis and Characterization of Nano Alumina by Sol Gel Method and Analyze its Behaviour on Ceramic Glaze", International Conference on Emerging of New Era in Glass & Ceramics, 17th January 2013, Ahmedabad
16. R.Durgha & **S.Manisha Vidyavathy**, "Synthesis and Characerization of Ceramic Foams", 3rd National Conference on Quality Control in Metallurgical Industries, 1st – 2nd February 2013, PSG College of Technology, Coimbatore
17. G.Venkatesh & **S.Manisha Vidyavathy**, "Preparation and Characterization of Nano Zirconia and Study its Effect on Ceramic Glazes", National Seminar on Advanced Materials and Their Applications, 27th – 28th February 2013, Osmania University, Hyderabad.
18. R.Ranjeeth, **S.Manisha Vidyavathy**, "Preparation of Red Clay Tile with Cullet Addition", Proceedings of the 77th Annual session of the Indian Ceramic Society, 19th – 20th Dec. 2013, Jamshedpur.
19. P.Sridhar Prasad, S.Swathi Sainthavi, J.Prasanna Venkatesh, V.Prasanna, **S.Manisha Vidyavathy**, "Preparation of Calcium Zeolite from Flyash and Study its Applications", Proceedings of the 77th Annual session of the Indian Ceramic Society, 19th – 20th Dec. 2013, Jamshedpur.
20. K.B.Dhanasekar, A.Gnanachandra Selvaraj, K.Surendran, G.Venkatesh, **S.Manisha Vidyavathy**, "Preparation and Characterization of Nano- Zirconia & Study its Effect on

Ceramic Glaze", Proceedings of the 77th Annual session of the Indian Ceramic Society, 19th – 20th Dec. 2013, Jamshedpur.

21. S.R.Dhanushkartik, K.R.Tamil Selvan. Veerapathiran, **S.Manisha Vidyavathy**, "Preparation and Property Evaluation of Pervious Concrete Utilising Sanitaryware Waste and Flyash", Proceedings of the 77th Annual session of the Indian Ceramic Society, 19th – 20th Dec. 2013, Jamshedpur.
22. D.Apoorva, C.S.Sasikala, L.Belin, K.Anitha, B.Sabari Kannan, **S.Manisha Vidyavathy**, "Identifying a Suitable Bond for Recycling AZS Refractory", Proceedings of the 77th Annual session of the Indian Ceramic Society, 19th – 20th Dec. 2013, Jamshedpur.
23. Srinivasulu K, Sakthi Prasad S, **Manisha Vidyavathy S**, "Wear Behaviour of Plasma Sprayed 8YSZ Thermal Barrier Coating on Stainless Steel Substrate, Proceedings of the 4th National level Conference on Innovations in Machinery and Structures, 28th August 2014, Chennai.
24. Srinivasulu K, **Manisha Vidyavathy S**, "Development of YSZ Thermal barrier Coating on Stainless Steel using Plasma spray process" Proceedings of the National Conference on Advancement in Mechanical Engineering, 11th September 2014, Chennai.
25. Srinivasulu K, **Manisha Vidyavathy S**, "Influence of Normal Load on the Wear Behaviour of Ytria Stabilized Zirconia Coating" Proceedings of the National Conference on Recent Trends and Developments in Sustainable Green Technologies, 24th – 25th March 2015, Chennai.
26. A R Dilipan, B. Sabari Kannan, **S. Manisha Vidyavathy**, R Vinothan, "Preparation of Wollastonite Using Eggshell and Study the effect of Wollastonite on the properties of ceramic glazes" presented in a International level conference on International Conference on Ceramic & Advanced Materials for Energy and Environment , organised by Christ University, India from 14-Dec-2015 to 17-Dec-2015.
27. Srinithi Krish, Bhiruntha swamy, Mani Sundaram, Padeep Josh, **S Manisha Vidyavathy**, "Preparation of Ultra micron quartz by Mechanical milling and Analyzing its Behaviour on Ceramic Glazes" presented in a International level conference on International Conference on Ceramic & Advanced Materials for Energy and Environment , organised by Christ University, India from 14-Dec-2015 to 17-Dec-2015.
28. V Veerapathiran, M. Harilakshmi. V. Prasanna, N. R. Srinivasan, **S Manisha Vidyavathy**, Low cost Red clay based ceramic Membrane for Removal of Chromium ions from water" presented in a International level conference on International Conference on Ceramic & Advanced Materials for Energy and Environment , organised by Christ University, India from 14-Dec-2015 to 17-Dec-2015.
29. A Arunchandran, S R Dhanush Kartik, R Sharan, N R Srinivasan, **S**

Manisha Vidyavathy, "Silver Nanoparticles Embedded Porous clay membrane for Point-of- Use water Disinfection" presented in a International level conference on International Conference on Ceramic & Advanced Materials for Energy and Environment, organized by Christ University, India from 14-Dec-2015 to 17-Dec-2015.

Publication Details: (Provide only the count)

Category	Conferences	Journals
National	17	02
International	12	29

Ph D / MS / M Tech / B. Tech Guidance

Ph. D Supervisor Registration Number: 2150066

Category	Completed	Ongoing
Ph. D	03	05
M. S (By Research)	-	01

S.No.	Title	Scholar Name	Completed Year / Ongoing
1.	Studies on Dry Sliding Wear Behaviour of Advanced Ceramic Coatings on AISI 304 Stainless Steel Substrate	K SRINIVASULU	Completed
2.	A Study on the Effect of Additives on SiO ₂ Nanoparticles by Mechanochemical Method	R STANLEY	Completed
3.	Synthesis and Characterization of Titania Based Nanocomposites for Electronics and Solar Cell Applications	ALPHAS JEBASINGH J	Completed
4.	Study on Synthesis and Characterization of Sol gel Doped Mullite Ceramics for Wear Resistant Applications	M ANNADURAI	Ongoing
5.	Preparation and Characterization of Low Cost High Performance Nanoporous Ceramic Membranes for wastewater Treatment	R UMAPRIYA	Ongoing
6.	Calcium Aluminate Cement containing Castables for Steel Ladle Applications	M SIMON JEYA SUNDER RAJ	Ongoing
7.	Grindability of Nickel based Superalloys	S RAMESH	Ongoing
8.	Ceramic Nano Biocomposite for bone applications	B SATHEESH KUMAR	Ongoing

9.	Thermal Barrier Coating	K KARTHIKEYAN	Ongoing
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M Tech / B. Tech Guidance:

Category	Completed	Ongoing
M. Tech	73	02
B. Tech	57	00

Guest lecturers delivered:

Title	Duration	Programme	Venue
Ceramics in Energy Management	25.04.2015	International conference	Mohamed Sathak Engineering College, Kilakara
Ceramics in Mechanical Engineering	19.01.2018	Akshobya : Technical Seminar	Meenakshi Engineering College, Chennai
3D printing of Bioceramic Materials and its Applications	05.12.2019	AICTE Sponsored Two Weeks Faculty Development Programme in Challenges and Opportunities in Bioceramic	VRS College of Engineering and Technology, Arasur, Villupuram

Awards and Recognitions:

- **Best Paper presentation Award** at 4th National Level Conference on Innovations in Machinery and Structures, Chennai, 2014
- **First Prize** – TNSCST, Anna University, Chennai, April 2010
- **Best Project Prize** – CTDT, Anna University, Chennai, February 2011
- **First Prize** - “75th Annual Session of the Indian Ceramic Society, Agra, 20th – 22nd December 2011
- **First Prize** – “National Conference on Materials Engineering”, PSG College of Technology, Coimbatore, February 2012

Academic Responsibilities:

- YRC Programme Officer from July 2013 to May 2019
- Member of the Anti Ragging Committee
- Member of Campus Discipline Monitoring Committee
- Served as the Chief Superintendent of Examinations for the Nov/Dec 2008 End Semester Examinations

- Served as Staff Advisor for InCerS Student Chapter of Anna University
- Staff Advisor for Association of Ceramic Technologists
- Served as Additional Chief Superintendent of Examinations for the Nov/Dec 2012 Examinations
- Served as the Additional Chief Superintendent of Examinations for the Nov/Dec 2014 End Semester Examinations
- Served as the Additional Chief Superintendent of Examinations for the Nov/Dec 2016 End Semester Examinations
- Served as the Additional Chief Superintendent of Examinations for the Nov/Dec 2018 End Semester Examinations
- Chief Superintendent for PG Examinations from 2009 to Nov/Dec 2018
- Ph. D Co-ordinator for Ceramic and Leather Technology from 2009 to Nov/Dec 2018
- Purchase Related Activities
- Organizing Seminars/ Workshops in the Department
- Assistance in Accreditation related activities of the Department
- Member of the Department Anti-ragging Committee
- Member of the Departmental Consultative Committee
- Member of Syllabus Sub Committee
- Audit related activities
- Served as Member of University-Industry Interface Committee
- Preparation of Syllabus
 - B. Tech – R2000, R2004, R2008, R2012,R2015, R2019
 - M. Tech – R2001, R2005, R2009, R2013, R2015, R2019
- Faculty Advisor and Class Committee Chairman for B. Tech Ceramic Technology Students
- Preparation of Lab Manuals – R2004, R2008, R2012, AR2015, R2019
- IQAC Co-ordinator of the Department
- NAAC Co-ordinator of the Department

Workshops / Seminar / Short term Courses / FDP Organized:

Role	Name of the Programme	Duration
Organizing Secretary	Two day Workshop on High Temperature Ceramics [DST Purse Sponsored]	19.02.2016 to 20.02.2016
Coordinator	Two day National Seminar on Porous Ceramics [SERB-DST Sponsored]	27.05.2016 to 28.05.2016
Coordinator	One day Seminar on Refractory: Materials, Installation and Applications	5 th October 2016

Coordinator	One day Seminar on Ceramic Coatings	13 th March 2017
Coordinator	One day Seminar on Ceramic Composites	22nd September 2017

Workshops / Seminar / Short term Courses / FDP Attended:

S. No	Name of the Event	Duration	Organized by
1	Modern Teaching Competencies	05.08.2002 - 19.08.2002	Anna University
2	National Conference on Application Oriented Nanomaterials	09.03.2005 - 11.03.2005	Alagappa University
3	Orientation Training Programme on Re-engineering	03.05.2005 - 05.05.2005	Anna University
4	National Conference on Advanced Techniques for Corrosion Studies	05.01.2006 - 07.01.2006	Alagappa University
5	Effective Energy Management through Energy Audit	24.02.2006 - 24.02.2005	Anna University
6	National Workshop on Nanomaterials : Properties and Applications	02.12.2006 - 03.12.2006	NIT, Trichy
7	National Workshop on Materials- Synthesis, Characterization and Applications	14.12.2005 - 15.12.2005	Alagappa University
8	Training Programme on “Digital Skills”	29.01.2008 - 31.01.2008	Anna University
9	Indo – US Workshop on Visible and Ultra Violet Sources for Solid State Lighting and Water Purification	05.01.2009 - 07.01.2009	Anna University
10	Advanced Level International Workshop on Nano-science and Technology	23.02.2009 - 27.02.2009	Anna University
11	International Workshop on Advances in Nano-science and Technology	28.10.2009 - 30.10.2009	Anna University
12	National Conference on Natural Hazards and Climate Change	11.03.2010 - 13.03.2010	University of Madras
13	UGC NRCM Summer School on “Mechanical Property Characterization”	14.06.2010 -	IISC, Bangalore

		02.07.2010	
14	E-content Development Skills for Teachers	15.09.2010	Anna University
15	Ceramics : Energy & Environment and 74th Annual Session of the Indian Ceramic Society	11.01.2011 - 13.01.2011	IncerS, Kolkata

16	AMN – 5th International Conference on Advanced Materials and Nanotechnology	07.02.2011 - 11.02.2011	Newzaland
17	International Workshop on Advanced Functional Nanomaterials	21.02.2011 - 24.02.2011	Anna University
18	Material Science and Technology Conference	16.10.2011 - 20.10.2011	USA
19	Platinum Jubilee Session of the Indian Ceramic Society,	20.12.2011 - 22.12.2011	Agra
20	UGC - NRCM Symposium on Mechanical Behaviour of Materials	30.01.2012 - 31.01.2012	IISC, Bangalore
21	One Day workshop on Teaching Skills and Smart Classroom Tools	07.01.2013	Anna University
22	UGC XII Plan Sponsored One Day Awareness Programme on Internal Quality Assurance	22.03.2013	Anna University
23	UGC XII Plan Sponsored One Day Awareness Programme on Quality Management	26.03.2013	Anna University
24	Centre for Faculty Development, Anna University on environmental Science & Engineering	11.12.2013 - 18.12.2013	Anna University
25	UGC - NRCM workshop polymers: Properties, Characterizations and Applications	01.07.2014 - 04.07.2014	IISC, Bangalore
26	Strategy to innovation: Workshop on Refractory raw material processing and application	27.08.2014 - 28.08.2014	CSIR-CGCRI, Kolkata
27	UGC Sponsored short term course on new materials their characterization and applications	15.10.2014 - 16.10.2014	Anna University`

28	Two day workshop on Scanning Probe Microscopy and High Resolution Electron Microscopy	23.02.2015 - 24.02.2015	PSG IAS, Coimbatore
29	Two day Workshop on High Temperature Ceramics [DST Purse Sponsored]	19.02.2015 - 20.02.2015	Anna University
30	Two day National Seminar on Porous Ceramics [SERB-DST Sponsored]	27.05.2016 - 28.05.2016	Anna University
31	One day Seminar on Refractory: Materials, Installation and Applications	05.10.2016	Anna University
32	GIAN Course on Sintering and Sintering – Free processing of Ceramics and Microstructural Development	02.01.2017 - 08.01.2017	IIT, Madras

33	One day Seminar on Ceramic Coatings	13.03.2017	Anna University
34	Short Course on Advanced Mechanical Surface Characterization	09.05.2017 - 11.05.2017	
35	Biomaterials and nanomedicine: Two emerging topics in public healthcare in the 21st century	12.09.2017 - 16.09.2017	Anna University
36	One Day Seminar on Ceramic Composites	22.09.2017 - 22.09.2017	Anna University
37	National Level meet on Recent Advances in Nanoscience and Technology	29.10.2017 - 30.10.2017	Anna University
38	Advanced X-ray diffraction techniques for the characterization of materials	17.01.2018 - 25.01.2018	Anna University
39	One Day Workshop on Quality Assurance in Higher Education institutions	13.03.2018 - 13.03.2018	Anna University
40	Importance of Assessment, Accreditation and Ranking IN Higher Education Institutions	27.11.2018 - 28.11.2018	Anna University
41	Faculty Development Training Programme	13.05.2019 - 15.05.2019	Anna University
42	AICTE Sponsored Faculty Development Programme	20.05.2019 - 26.05.2019	B S Abdur Rahaman Crescent Institute of Technology

43	FDP on Research Methodology	26.05.2020 - 30.05.2020	Padm. Dr. V. B. Kolte College of Engineering, Malkapur
44	MHRD sponsored online workshop on Comprehensive e-Learning to e-Training guide for Administrative Work	25.05.2020 - 05.06.2020	Teaching Learning Centre, Ramanujan College, Delhi
45	MHRD sponsored online FDP on Open Source Tools for Research	08.06.2020 - 14.06.2020	Teaching Learning Centre, Ramanujan College, Delhi
46	MHRD sponsored online FDP on Advanced Concepts for Developing MOOCs	02.07.2020 - 17.07.2020	Teaching Learning Centre, Ramanujan College, Delhi
47	Hands-on Training to write a Quality Research Article using Latex	20.07.2021 - 21.07.2020	Majestic Technology Solutions
48	STTP on Advances in Additive manufacturing	20.07.2020 - 25.07.2020	Yeshwantrao Chavan College of Engineering
49	FDP on Leadership & Excellence	22.09.2020 - 26.09.2020	AICTE (ATAL)
50	FDP on 3D Printing & Design	07.12.2020 - 11.12.2020	AICTE (ATAL)
51	Government Officials Training Program on 3D Printing/ Additive Manufacturing	01.03.2021 - 12.03.2021	MHRD - FutureSkills Programme

Countries visited

Name of the country	Duration	Purpose of visit
New Zealand	07.02.2011 - 11.02.2011	Paper Presentation
USA	16.10.2011 - 20.10.2011	Paper Presentation

Membership, Committees, Boards etc:

- **Life member** of Indian Ceramic Society
- **Member** of The Board of Studies in Fine Arts – University of Madras
- **Member** of Syllabus Sub Committee for Diploma in Ceramic Technology, Government Polytechnic Institute, Virudhachalam

- **Member** of The Board of Studies in Govt. Institute of Ceramic Technology, Gudur

Other Interest: NA