


Name: Dr. M.VANITHA	Photo 			
Designation:	<i>Associate professor</i>			
Qualification:	<i>MSc. M.Phil., Ph.D.,</i>			
Area of specialization:	<i>CHEMISTRY</i>			
Experience:	Industrial Experience		Teaching Experience	
	-		20	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	06		22	
Publications:	Conference		Journal	
	National	International	National	International
	03	03	0	16
Books / Book Chapters	2			
Patents:	National		International	
	2		-	
Professional Body Membership	3			

Staff Achievements

- Certified internal auditor of ISO:9001:2008 and ISO: 9001:2015 for Quality management system and Audit training.

- *NSS Programme officer.*

- *Department NAAC Coordinator*

- Completed NITTTR eight modules.

- Reviewed international journals

- ATL Mentor Trinkerpreneur 2021..

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc	General Chemistry	2003	Kundavi Nachiyar Govt. Arts. & Science College	Bharathidasan University	82%	Ist with Distinction
PG	M.Sc	General Chemistry	2005	Raja Serfoji Govt. Arts College	Bharathidasan University	79%	I
	M.Phil	General Chemistry	2008	Bharathidasan University	Bharathidasan University	81%	Ist with Distinction
Ph.D.	Ph.D.	Nano Materials	2024	Dr. Ambedkar Govt. Arts College	University of Madras	-	-

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
GKM College of Engineering & Technology	Lecturer	16.08.2005	03.01.2007	1	4	18
Karpaga Vinayaka College of Engineering & Technology	Lecturer	18.01.2007	17.06.2008	1	5	-
Sri Sai Ram Engineering College	Assistant Professor	18.06.2008	31.08.2022	14	03	-
Sri Sai Ram Engineering College	Associate Professor	01.09.2022	Till date	2	03	-
				19	03	18

Workshops/Seminars attended :06

FDP/STTP Attended : 22

Symposium Attended	: 0
Conference Attended	: 06
Completed / Ongoing Projects	: -
Patent	: 2
Journal Publications	: 17
Books / Book Chapters	: 1
Awards	: 3
Startup	: 0
Webinar	: 12
Resource Person	: 0
Online Courses	: 19

Workshops/Seminars:

Attended National level workshop on, Synthesis of Nanomaterials using Electrochemical Methods, Characterisation and Application on 26th July 2024. at Sri Sairam Engineering College

- 1. Participated in the international Virtual Seminar on **Advances in Chemical Sciences** on organized by PG & Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode on 08.03.2021.*
- 2. Attended "Two Days National Workshop on Hands on Training on **Composite Preform Formation Techniques and their Characterization for General Engineering, Armour and Aerospace Applications**" at St.Peter's College of Engineering and Technology, Chennai on 30 and 31st Aug 2019.*
- 3. Attended National level workshop on "**Advancements in Chemical sciences** on 18th July 2016 at Sri Sairam Institute of Technology.*
- 4. Attended Recent Trends in **Laser Spectroscopy and its Applications (RTILSA -13)** on 17.10.2013 at Sri Sairam Engineering College.*
- 5. Attended the AICTE sponsored staff development program on "**Recent Developments in Computing**" conducted by department of computer science & engineering at Sri Sai Ram Engineering College on April 2010.*

FDP/STTP:

1. Attended **International FDP on Nanomaterials at St.Mary's College(Autonomous) Thoothukudi** from 23.11.2021 to 27.11.2021.
2. Attended FDP on **"Innovation,Incubation,startsup and Research challenges in India"** at **SRM Institute of Science and technology** 28.06.2021 to 02.07.2021
3. Attended FDP on **"Recent Developments in materials,manufacturing and thermal Applications"** at **Karpagam Academy of higher education,Coimbatore** from 07.06.2021 to 12.06.2021.
4. Attended Five days FDP on **Inculcating Universal human values in Technical Education** online program from 19.04.2021 to 23.04.2021.
5. Attended STTP **"Strategies in Teaching learning"** at **Sri Sairam Institute of Technology** from 25.02.2021to 03.03.2021.
6. Attended Five days FDP on **"Manufacturing, Machining and Testing of Composites"** at **Sri Sairam Institute of technology, Chennai** from 15.05.2020 to 19.06.2020.
7. Attended **AICTE Training & Learning (ATAL) Academy FDP on "Robotics"** from 25.05.2020-29.05.2020 at **Maulana Azad National Institute of Technology Bhopal MP.**
8. Attended **ISTE sponsored Five days Short Term Training Programme on "Intelligent Robotics & Machine Vision Technology IN Current Scenario"** at **Sri Sairam Institute of Technology, Chennai** from 13.05.2020 - 18.05.2020.
9. Attended Five days FDP on **"Novel Materials and Industrial Applications"** at **Karpagam College of Engineering, Coimbatore** from 25.05.2020 - 29.05.2020.
10. Attended the **AICTE Recognized Faculty training programme on "Nanomaterials and Devices"** at **NITTR, Chandigarh** from 27.4.2020 to 01.05.2020.
11. Attended Five days FDP on **"Materials for Thermal and Renewable Energy Research"** **Sri Sairam Institute of technology, Chennai** from 20th may & 24th May 2020.
12. Attended Two days FDP on **"AFM AND FTIR BASED MATERIAL TESTING FOR RESEARCH"** at **Aarupadai Veedu Institute of technology, Chennai** from 17th July & 18th Dec 2019.
13. Attended Three days Sponsored FDP on **"Teaching Techniques with Gamification"** Conducted by **ICT Academy** on 11.12.2019 to 13.12.2019 at **Dhaanish Ahmed College of Engineering.**
14. Attended the **ISTE sponsored FDP on "RENEWABLE ENERGY SYSTEMS"** at **Sri Sairam Engineering college, Chennai** from 22nd July to 26rd July 2019.
15. Attended the **AICTE sponsored short term training programme on "Natural Fiber Composites -Recent technology for Sustainability and Eco-friendly Environment"** at **Sri Sai Ram Engineering College** from 24.6.19 to 29.6.19.
16. Participated in Two days Faculty development programme on **"Recent developments in Engineering Materials & Nanotechnology"** held on 10th & 11th December2018 at

Tagore Engineering College, Department of Mechanical Engineering, Rathinamangalam, Chennai-127.

- 17. Attended FDP on “CHARACTERIZATION OF MATERIALS” at Sri Sairam Institute of Technology, Chennai on 20th & 21st July 2017.*
- 18. Attended the Anna university Sponsored faculty development program on “CY2161-Engineering Chemistry – II” at Madras institute of technology Chennai on 26th Dec to 2nd Jan 2012.*

Conferences:

- 1. Presented paper on “International conference on solar & Biomass energy “Conducted by department of mechanical engineering at GKM College of engineering & technology, Chennai on 7th & 8th Jan 2014. Title of the paper: “Management of High level radioactive wastes at Nuclear power plants”*
- 2. Participated National Conference on “Recent Development of Chemistry in Engineering Applications” conducted by department of Chemistry at SRM Valliammai Engineering College, Kattankulathur on 09th Feb 2019.*
- 3. Participated National Conference on “Current Trends in Energy Conversion Devices & Environment” conducted by department of Chemistry at Selvam Arts & Science College, Namakkal on 22nd & 23rd Feb 2019.*
- 4. Participated International Conference on **Advanced Materials on Energy and Environmental Applications(ICAMEEA 2020)** Department of chemistry, School of Science and Humanities, BIST, BIHER, sponsored by TNSCST & in association with INHA University, South Korea & RSC South Indian Chapter 03.12.2020 - 04.12.2020*
- 5. Participated International conference on **Nanoscience and Nano technology at Bharath institute of Science and technology .05.02.2021 & 06.02.2021***
- 6. Participated in the National Conference on Recent Innovations in Mechanical Engineering and presented paper on **Investigation of Ni²⁺ ions on structural, morphological and magnetic properties of NixCo1-xFe2O4 nanoparticles** organized by Jai Shriram Engineering College on 18.11.2021 at Tirupur-638660.*

Projects Applied

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Patent filed

- 1 **Patent Published on 6.01.2023, Brain computer interfaced (bci) system for non-touch remote controlling of the household electrical devices providing home automation.***

2. **Patent Published on 6.01.2023**, *Brain computer interfaced (bci) system for non-touch remote controlling of the navigational device to assist the physically challenged users*

Journals:

International:

1. **M. Vanitha**, Robert Čep, Ranjan Kr Ghadai. *Investigation of mechanical properties of silver-doped diamond-like carbon coating by varying deposition temperature. Frontiers in Mechanical Engineering, Vol:10, Feb 2024.*
2. **M. Vanitha**, G Shanmugasundar, K Logesh, Lenka Cepova *Effect of deposition temperature on the tribo-mechanical properties of nitrogen doped DLC thin film. Frontiers in Mechanical Engineering, Vol:10, Feb 2024.*
3. **M. Vanitha**, G Shanmugasundar, *Brain-computer interface of robot control with home automation for disabled*, AIP Conference Proceedings, vol: 2742, May 2023
4. **M. Vanitha, G Sai Krishnan G Sai Krishnan** *Investigation on mechanical properties of metallic fiber reinforced concrete.*, AIP Conference Proceedings, vol: 2742, May 2023
5. **M. Vanitha**, G Ramachandran *Green Synthesis and Characterization Studies of Calcium Doped Nickel Ferrite Nanoparticles by Microwave Combustion Method. International journal of Food and Nutritional Sciences, vol: 11, Dec 2022.*
6. **M. Vanitha**, G Shanmugasundar, G Sai Krishnan, S Srinivasan. *Investigation on the mechanical properties of newly modified polymeric fiber for structural applications* Vol:46, 2021.
7. **M. Vanitha**, G Sai Krishnan, G Shanmugasundar, Raghuram Pradhan, SP Sundar Singh Sivam. *Performance analysis on mechanical/morphological properties of ramie-kenaf hybrid polymer composites. AIP Conference Proceedings. Vol:2417, 2021.*

- 8. M .Vanitha**, Raghuram Pradhan, G Shanmugasundar, G Sai Krishnan, SP Sundar Singh Sivam A critical investigation on the performance of bael biodiesel in CI engine . AIP Conference Proceedings .Vol:2417,2021.
- 9. M. Vanitha**, G Shanmugasundar, Robert Čep, Vikas Kumar, Kanak Kalita, M Ramachandran .A Comparative Study of Linear, Random Forest and AdaBoost Regressions for Modeling Non-Traditional Machining.Vol:9.2021
- 10. M. Vanitha**, G Ramachandran, A Manikandan, Y Slimani, MA Almessiere, A Baykal, Chandra Sekhar Dash Effect of Sr²⁺-Ion-Substituted Nickel Ferrite Nanoparticles Prepared by a Simple Microwave Combustion Method / Journal of Superconductivity and Novel Magnetism Volume 34.2021.
- 11 . M. Vanitha**, G Sai Krishnan, J Pravin Kumar, G Shanmugasundar, N Sivashanmugam Investigation on the alkali treatment of Demostachya Bipinnata fibers for automobile applications-A green Composite, Materials Today: Proceedings.Vol: 2214-7853 ,June - 2020
- 12. M. Vanitha**, G Sai Krishnan, G Shanmugasundar, S Srinivasan, G Suresh Investigation on the Mechanical & Morphological Properties of Red banana/Ramie Fiber vinyl ester Composites, Material Science and Engineering. Vol:961, Nov 2020.
- 13. M .Vanitha**, G Shanmugasundar, L Ganesh Babu, P Suresh, P Mathiyalagan, G Sai Krishnan, Fabrication & analysis of Mechanical Properties of PVC/Glass fiber /graphene nano composite pipes, Materials Research Express. Volume 7, Number 11, November 2020.
- 14. M .Vanitha**, G Sai Krishnan, G Shanmugasundar, N Sivashanmugam Mechanical Properties of Chemically Treated banana & Ramie Fibre Reinforced Polypropylene Composites / IOP Publications, Material Science and Engineering. Vol:961, Nov 2020
- 15. M.Vanitha** and G.Saikrishna, S.Aravinth Investigation of Al₂O₃/Oryza Sativa Oil Biodiesel on Performance and Tribological Characteristics. Test Engineering and Management. Volume 83 ISSN: 0193-4120 Page No. 942 – 946 May-June 2020
- 16. M. Vanitha** and G. Ramachandran Effects of Ni²⁺ ions on structural, morphological and magnetic properties of Ni_xCo_{1-x}Fe₂O₄ (X=0.0, 0.3 and 0.5) nanoparticles. **International journal of Green and Herbal Chemistry**. Vol.8, No.2, pp 539-548 on May 2019.

Book

Introduction to nanomaterials

Awards:

- *Ideathon Appreciation Award.*
- *Atal Tinkerpreneur 2021.*
- *Editorial Board member in*

Webinar:

1. *Participated in three days virtual International webinar on **natural products and Drug development(NPDD2021)** organised by Department of Chemistry, B.S.Abdur Rahman Crescent Institute of Science and technology,Vandalur,Chennai during 4.10.21-06.10.21.*
2. *Participated in the international Virtual Seminar on **Advances in Chemical Sciences** on organized by PG & Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode on 08.03.2021.*
3. *Attended online International webinar on **“Potential Role of Probiotics & Prebiotics”** at Seethalakshmi Ramaswami College on 23.06.2020*
4. *Attended Leadership talk by MHRD’ Innovation cell (Government of India) on 18.06.2020.*
5. *Attended online webinar on **“Biodiversity Its Time for Nature”** at Sri Sairam Institute of Technology, Chennai on 05.06.2020*
6. *Attended online webinar on **“Opportunities for Research with DRDO”** at A.V.C. College of Engineering, Mayiladuthurai on 29.05.2020*
7. *Attended online webinar on **“Intelligent Systems”** at Mohamed Sathak Engineering College, Ramanathapuram on 28.05.2020*
8. *Attended online webinar on **“Introduction to Industry 5.0”** at St. Joseph’s College of Engineering , Chennai on 28.05.2020*
9. *Attended online international webinar on **“Covid -19 Awarness Program”** at Thiagarajar College of Engineering , Madurai on 04.04.2020*
10. *Attended online webinar on **“IPR & Patent Practices in India-Innovation & Research into Patents”** at Sri Sairam Institute of Technology, Chennai on 11.05.2020*
11. *Attended online webinar on **“3D Printing Applications in Fighting with Covid-19”** at Sri Sairam Institute of Technology, Chennai on 09.05.2020*
12. *Attended online webinar on **“How to get Published in Scientific Journal From Research to Publication”** at Sri Sairam Institute of Technology, Chennai on 27.04.2020*

13. *Attended online international webinar on “Metal Free Photocatalysts for Environment Enhancing” at Thiagarajar College of Engineering, Madurai on 27.05.2020*

ON - LINE COURSES

1. *Successfully completed NPTEL course with Elite on the topic **introduction to research.***
2. *Successfully completed NPTEL course with Elite on the topic **Infra Red Spectroscopy for Pollution Monitoring.***
3. *Successfully completed NPTEL course with Elite with Silver on the topic **plastic waste management.***
4. *Successfully completed NPTEL course with Elite on the topic **Dairy and food process and products Technology.***
5. *Successfully completed **Artificial Intelligence & Drug Discovery** Course on 22.04.2020.*
6. *Successfully completed **General Chemistry** online Udemy Course on 09.04.2020*
7. *Successfully completed online training Program **Introduction to IOT** on 20.04.2020*
8. *Successfully completed **Quantum Mechanics** Coursera online Course on 18.5.2020*
9. *Successfully completed **Introduction to Google Docs** Coursera online Course on 10.6.2020*
10. *Successfully completed **Air Pollution – A Global Threat to our Health** Coursera online Course on 10.6.2020*
11. *Successfully completed **Natural Gas** Coursera online Course on 10.6.2020*
12. *Successfully completed **Spreadsheets for Beginners using Google Sheets** Coursera online Course on 09.5.2020*

13. *Scouts: A Journey to Growth 20th June 2024.*
14. *Scouts: Blended Learning 28th June 2024.*
15. *Scouts: Growing Together (Understanding the growth context) 28th June 2024*
16. *Completed one online course (NPTEL-Wastewater Treatment and Recycling)”
Twelve weeks, Successfully completed with “**Elite with Silver**” category, along with FDP 2024.*
17. *Completed one online course (NPTEL-Air Pollution and Control) Twelve weeks,
Successfully completed with “**Elitewith silver**” category, along with FDP 2024.*
18. *.Completed one online course (NPTEL-Sustainable Engineering Concepts and Life*

Cycle Analysis J) Eight weeks, Successfully completed with “Elite” category, along with FDP 2024.

- 19. Completed one online course (NPTEL- Environmental Science)” Twelve weeks, Successfully completed with “Elite” category, 2024.*

NITTTR Courses:

- 1. Module: 1 - Orientation towards Technical Education and Curriculum Aspects, February 2023.*
- 2. Module: 2 - Professional Ethics & Sustainability, February 2023.*
- 3. Module: 3 - Communication Skills, Modes and Knowledge Dissemination, September 2021.*
- 4. Module: 4 - Instructional Planning and Delivery, February 2023.*
- 5. Module: 5 - Technology Enabled Learning & Life Long Self Learning, July 2022.*
- 6. Module: 6 - Student Assessment and Evaluation, February 2023.*
- 7. Module: 7 - Creative Problem Solving, Innovation and Meaningful R&D, February 2023.*
- 8. Module: 8 - Institutional Management & Administrative Procedures, February 2023.*

Professional Membership

- Life Member, Indian Society for Technical Education
- Member, IEEE from 2020.
- International Association of Academic plus Corporate Society - [IAAC]

