

FACULTY – PROFILE

1. **Name** : Dr. T. KAVITHA
2. **Designation** : PROFESSOR & HEAD
3. **Department** : PHYSICS
4. **Date of Joining** : 15.07.2015
5. **E-mail** : kaviphy16@gmail.com
6. **Phone No.** : 9442385688
7. **Educational Qualification**



Degree	Institute	Specialization	Name of the Degree	Year	Division
UG	Sri Sarada Niketan college of Science for women, Karur.	Physics	B.Sc.	1994	I Class
PG	Nehru Memorial College, Puthanampatti	Applied Physics	M.Sc.	1996	I Class
M.Phil	Alagappa University	Crystal growth	M.Phil.	1997	I Class
Ph.D	Nehru Memorial College, Puthanampatti	Nano Technology	Ph.D	2017	Highly Commended

8. Employment Record (from present to past)

Organization	Period		Designation
	From	To	
Pavai women's polytechnic	01.09.1998	01.06.1999	Lecturer
AMS Engineering college, Namakkal	28.06.1999	10.05.2007	Assistant Professor
King college of Technology, Namakkal	11.05.2007	31.05.2011	Assistant Professor
K.S.R. College of Engineering, Tiruchengode, Namakkal District.	01.06.2011	30.06.2011	Assistant Professor
KSR Institute for Engineering and Technology, Tiruchengode, Namakkal District	01.07.2011	14.07.2015	Associate Professor
K.S.R. College of Engineering, Tiruchengode, Namakkal District	15.07.2015	31.10.2017	Associate Professor
K.S.R. College of Engineering, Tiruchengode, Namakkal District	01.11.2017	Till date	Professor

9. Memberships of Professionals / Learned Bodies / Societies

S.No.	Name of the Professionals/Learned bodies/Societies	Membership No
1.	MISTE	MISTE-LM84509

10. Awards / Prizes Received

Name of the Award	Year	Awards / Prizes received from
-	-	-

10. R & D Details

a) Research Grants Received

Year	Project Title	Reference No	Total Amount Received	Sponsoring agencies
-	-	-	-	-

b) PhD Registration Details

Year of Registration	Topic	Name of the Supervisor	Reference No	Name of the University
-	-	-	-	-

11 Conference Grants Received

Title of the Conference	Duration	Sponsoring agencies	Amount received
-	-	-	-

12. Publications

i) Publications in Journals

Sl.No	Name of the Author	Title of the Paper	Journal Name	Vol , No & pages	Year of Publication
1	Kavitha, T. , Rajendran, A., Durairajan, A. and Kumaraswamidhas, LA.	Heat transfer intensification by Nano Fluids - an Outline”	Journal of Scientific and Industrial Research	Vol. 73, pp. 711-712	November 2014,
2	T. Kavitha , A. Rajendran & Durairajan	Synthesis and Characterization of TiO ₂ Nanopowders and TiO ₂ -SiO ₂ Nanocomposites by Sol-Gel technique	Elixir Nano Composite Materials,	Vol 59 Pp 15919-15922	2013
3	KavithaThangavelu , RajendranAnnamalai, DurairajanArulnandhi,	Synthesis And Characterization of Nano sized TiO ₂ Powder derived from a Sol-Gel Process in acidic conditions	International Journal of Engineering Sciences & Emerging Technologies	Vol. 4, No. 2,-95,	February 2013
4	KavithaThangavelu , Rajendran Annamalai and Durairajan Arulnandhi,	Preparation and Characterization of Nanosized Tio ₂ Powder by Sol-Gel Precipitation Route	International Journal of Emerging Technology and Advanced Engineering	Vol. 3, No. 1, 636-639,.	January 2013

5	Kavitha, T., Rajendran, A. and Durairajan, A.	Synthesis ,Characterization of TiO ₂ Nanopowder and Water based nano fluids using two step method	European Journal of Applied Engineering and Scientific Research	Vol. 1, No. 4, pp. 235- 240,	2012
6	Kavitha, T., Rajendran,A., Durairajan,A. and Shanmugam .A,	Heat transfer Enhancement Using Nano Fluids and Innovative Methods – An Overview	International Journal of Mechanical and technology (IJMET)	Vol. 3, No. 2, pp. 769 - 782,	2012
7	Kavitha, T., Rajendran,A., Durairajan,A. and Syedabuthahir, M.	Advanced Heat Transfer Enhancement Using TiO ₂ Water Based Nano Fluids	International Journal of Mechanical and Industrial Engineering	Vol. 2, No. 4,	2012
8	T. Kavitha, A. Rajendran, A. Durairajan & M. Syedabuthahir	Advanced Heat Transfer Enhancement Using TiO ₂ Water Based Nano Fluids	International Journal of Mechanical and Industrial Engineering (IJMIE)	Vol 2 No.4	2012
9	T. Kavitha, A. Rajendran, A. Durairajan & Kumaraswamidhas, LA.	Design and manufacturing of nano catalytic converter for pollution control in automobiles for green environment	Indian J.Innovations Dev 1	Vol 5 Pp no 315-319	2012
10	Kavitha T, Rajendiran A, Durairajan A	Experimental Investigation and control the toxic emissions in IC engines by nano materials	Discovery Science	Vol 1 Pp no 3 - 9	2012

ii) Papers Presented in International Conferences / Symposiums

SI.No	Name of the Author	Title of the Paper	Conference Name	Proceeding pages	Date &Year
1.	T.Kavitha	Advanced Heat Transfer Enhancement using Tio ₂ Water Based Nano Fluids	InterNational conference on Mechanical and Industrial Engineering constructions. ICMIE - Goa	--	19th August 2012
2	T.Kavitha	Novel properties of TiO ₂ –siO ₂ nano materials	International poster conference on 2 nd Virtual nano technology Budebest Hungary	--	19 th September 2012

iii) **Papers Presented in National Conferences / Symposiums**

Sl.No	Name of the Author	Title of the Paper	Conference Name	Proceeding pages	Date & Year
1.	T.Kavitha	Advanced Heat Transfer Enhancement using Tio ₂ Water Based Nano Fluids	National Conference on Advances in Materials Science and Nonlinear Systems (AMSNS-16)	-	January 7 & 8 2016
2.	T.Kavitha	Synthesis, characterization of nano sized Tio ₂ powder and water based nano fulides using two step method	Second National conference on Technological Advancement Engineering	-	8 th & 9 th February 2013
3.	T.Kavitha	Synthesis, and characterization studies of nano Tio ₂ - Sio ₂ composites via sol-gel technique	National conference of Design, Materials and Constructions	-	23 rd & 24 th August 2012

iv) **Publication of Books**

Sl. No.	Publication	Date of Publication	Name of the Publisher
-	-	-	-

13. **National/International Conferences & Seminar/Workshops attended**

Sl.No	Date	Type of Course(FDP/ Workshop/ Seminar/Conference/Symposium/ any other)	Topic	Organized by	Sponsored by
1.	25.07.2022 -30.07.202	FDP	Six-Day Online International Faculty Development Program on Recent Trends in Applied Physics	Easwari Engineering College, Tiruchengode	Easwari Engineering College, Tiruchengode
2.	25.07.2022 - 30.07.2022	FDP	National Virtual Faculty Development Programme on Emerging Trends in Applied Chemistry	Easwari Engineering College, Tiruchengode	Easwari Engineering College, Tiruchengode
3	29.07.2022	Webinar	Webinar on Nanotechnology in Forestry research	Sri Ramakrishna Engineering College, Coimbatore	Sri Ramakrishna Engineering College, Coimbatore

4	20.07.2022 - 21.07.2022	International Conference	International Conference on Functional Material and Nanotechnology (ICFMN-2K22)	Nehru Institute of Technology in collaboration with Indian Association for Crystal Growth, Coimbatore	Nehru Institute of Technology in collaboration with Indian Association for Crystal Growth, Coimbatore
5	05.07.2022	Webinar	Webinar on Accelerators/Incubation – Opportunities for Students & Faculties – Early Stage Entrepreneurs	K.S.R. College of Arts and Science for Women, Namakkal	K.S.R. College of Arts and Science for Women, Namakkal
6	14.05.2022	Webinar	Webinar on Nano structured Materials for Photoelectrochemical Transformation and Electrochemical Energy storage Applications	Velammal Institute of Technology Chennai	Velammal Institute of Technology Chennai
7	20.02.2022	Webinar	K-12 Webinar entitled What Decides Our Academic Success?	ISHRAE Madurai	ISHRAE Madurai
8	11.02.2022	Webinar	International Webinar on Linking, Science & Technology to Create a Sustainable Environment	K.S.R. Institute for Engineering and Technology, Namakkal	K.S.R. Institute for Engineering and Technology, Namakkal
9	11.10.2021 - 12.10.2021	Webinar	Two – Day national Webinar on Nanomaterials – Current Trends and Future Applications	Saranathan College of Engineering, Tiruchirapalli	Saranathan College of Engineering, Tiruchirapalli
10	07.06.2021	Webinar	National level webinar on Opto-electronic devices and its applications	Nehru Institute of Technology, Coimbatore	Nehru Institute of Technology, Coimbatore
11	31.05.2020	FDP	Faculty development program on Teachers are National Builders	Arjun College of Technology, Coimbatore	Arjun College of Technology, Coimbatore
12	02.11.2020	Webinar	One Day Webinar on Nonlinear Dynamics: An Evolving Science	Kongu Engineering College, Perundurai, Erode	Kongu Engineering College, Perundurai, Erode
13	28.09.2020 – 30.09.2020	Workshop	Three Day Lecture Workshop on Recent trends in Materials Science	Kongu Engineering College, Perundurai, Erode	Indian Science Academics
14	24.09.2020 – 25.09.2020	Webinar	Webinar on Gender sensitization of Adulthood in Education Campuses	Nehru Institute of Technology, Coimbatore	Nehru Institute of Technology, Coimbatore
15	23.09.2020	Webinar	Webinar on Gender sensitization of Adulthood in Education Campuses – Gender Equity and	Nehru Institute of Technology, Coimbatore	Nehru Institute of Technology, Coimbatore

			Sensitization among Students		
16	21.09.2020 – 25.09.2020	Workshop	Five Day National Workshop on Functional Materials, Dye-sensitized solar cells and perovskite solar cells	Kongu Engineering College, Perundurai, Erode	Kongu Engineering College, Perundurai, Erode
17	10.08.2020 – 15.08.2020	Online Course	One Week Online certificate course on Digital Teaching Techniques	ICT Academy	ICT Academy
18	03.08.2020 – 07.08.2020	FDP	Faculty Development Program on the Role of Materials Science in Engineering-Applications Perspective	Mahatma Gandhi Institute of Technology, Telugana	Mahatma Gandhi Institute of Technology, Telugana
19	29.11.2019	National Seminar	National Cyber Safety and Security Standards	K.S.R. College of Engineering, Tiruchengode	K.S.R. College of Engineering, Tiruchengode
20	19.11.2019 – 21.11.2019	Workshop	Three Days Workshop on Instructional and Assessment Characteristics of OBE frame work and Hands on Practices for Designing and Mapping Outcomes	K.S.R.I.E.T, Tiruchengode	K.S.R.I.E.T, Tiruchengode
21	11.06.2020 – 12.06.2020	FDP	Two Days Faculty Development Program on Game Pedagogy in Outcome Based Education	KC College and Management Studies and Research, Thane	KC College and Management Studies and Research, Thane
22	01.06.2020 – 04.06.2020	Online Lecture Series	Online Lectures in Solid State Physics-Series 1: 'Electrons in Solids'	Department of Theoretical Physics, University of Madras, Chennai	Department of Theoretical Physics, University of Madras, Chennai
23	21.05.2020	National Webinar	National Webinar on How to bring Lasting changes in students	St. Joseph's College for Women, Tirupur	St. Joseph's College for Women, Tirupur
24	06.05.2020 – 08.05.2020	Online COurse	Three Days online course on Genetic Disorder	Sri Kailash Women's College, Salem	Sri Kailash Women's College, Salem
25	20.04.2020 – 21.04.2020	Online Course	Online Course on Household Electrical Devices and Applications	AVS college of Arts and Science, Salem	AVS college of Arts and Science, Salem
26	26.08.2019	Seminar	Seminar on Woman Entrepreneurship & Empowerment Programme	Department of IT K.S.R.College of Engineering, Thiruchengode.	K.S.R.College of Engineering, Thiruchengode
27	10.07.2019	Workshop	Workshop on J Gate an – Electronic gateway for research.	Department of Library K.S.R.College of Engineering, Thiruchengode.	K.S.R.College of Engineering, Thiruchengode.
28	Jan- April 2019	NPTEL	Semiconductors opto electronics	Indian Institute of Technology (IIT), Kharagpur, India	KSRCE Tiruchengode
29	Jul-oct-	NPTEL	Introduction to Non-Linear	Indian Institute of	KSRCE

	2018		Optics and its Applications	Technology (IIT), Kharagpur, India	Tiruchengode
30	25 th June, 2018 to July 1 st	Induction/Refresher programmer	Teaching and Research with Technology	IRTT-Erode	AISTE-ISTE
31	Jan-Apr 2018	NPTEL	Atomic and Molecular Physics	Indian Institute of Technology (IIT), Kharagpur, India	KSRCE Tiruchengode
32	July-oct 2017	NPTEL	Solid state physics	Indian Institute of Technology (IIT), Kharagpur, India	KSRCE Tiruchengode
33	Dec-8 to 18, 2015	ISTE short duration training Programme	Engineering Physics	Indian Institute of Technology (IIT), Bombay	KSRCT Tiruchengode
34	04.07.2018	IEEE explore Digital Library Training	-	Department of Library, KSRCE Tiruchengode	-
35	03.07.2018	TwoDays National Level Seminar	IMPACT OF GREEN COMPUTING FOR MINIMIZING E – WASTE ON HUMAN HEALTH	Department of Computer Science and Engineering, KSRCE Tiruchengode	ICMR
36	29 th & 30 th July 2012	International conference	International conference on “ACCMS-Theme meeting on 2D Nano structures Graphene and beyond”. Budebest Hungary	IISC, Bangalore	Defence R&D Organization
37	12 th Aug 2011	One day national level Seminar	Recent Development in Advanced Materials and its applications	Mahendra Engineering College	-
38	1 st March 2009	One day Workshop	Faculty Development Programme	King College of Technology	-
39	7 – 8 Feb 2007	National Conference	Emerging Opportunities in the field of Physics & Electronics	P.G.P College of Arts and Science, Namakkal	-
40	14 th & 15 th Feb 2007	Workshop	Advanced Engineering Materials	Government College of Engineering, Salem	TEQIP
41	7 – 9 Dec 2005	Three day Faculty Development Program	Effective Teaching – Learning management and student Personnel management	Annai Mathammal Sheela Engineering College, Erumapatty	-
42	30 th August 2004	One day Seminar	Aerosols and Environmental Pollution	Sona college of Technology, Salem	-

14. Lecture Delivered : Nil

15. Conference/Seminar Organized : Nil

16. Patent:

S.No.	Author	Title of the Invention	Status
1	Mr.P.Saravanan, Dr.P.Senthil kumar, Dr.T.Kavitha , Mr.K.Perumal, Mr.M.Anbalakan, Mr.K.Venkateshwaran	DISPOSAL OF SLUDGE WASTE IN WATER TANK USING DIAPHRAGM OPERATED BY PISTON AND CYLINDER	Applied
2	Dr.M.Bhuvaneshwaran, Dr.P.Senthil Kumar, Dr.T.Kavitha , Dr.T.Sureshkumar, Mr.P.Saravanan, Mr.M.Prithivraj,Mr.C.Prakash Mr.ML.Praveen, Mr.S.Vigneshkumar.	MECHANICAL PROPERTIES OF NATURAL FIBER COMPOSITES INFLUENCED BY SURFACE TREATMENT	Applied
3	Mr.J.Venkatesh, Dr.P.Senthil Kumar, Dr.T.Kavitha , Mr.G.Nandakumar, Mr.P.Parthiban, Mr.R.Prabu, Mr.P.Sabarishwaran	DESIGN AND FABRICATION OF ATMOSPHERIC WATER GENERATOR	Applied
4	Dr.T.Kavitha , Dr T. Sureshkumar, Mr.R.ragul,Mr.R.Rajavignes h,Mr.P.Sabari,Mr.S.Praveen kumar	Intelligent Braking System Using Ultrasonic Sensor	Applied

17. Reviewer In

: Nil

**Name & Signature
(Dr. T. KAVITHA)**