

**FACULTY PROFILE**



1. Name : Dr.K. MANIKANDAN  
2. Designation : PROFESSOR  
3. Qualification : M.Sc, M.Phil, Ph.D.  
4. Department : Chemistry  
5. DOB & Age as on 2802.22 : 06.08.1976 & 45  
6. Gender : Male  
7. Address : 8, Kattabomman Street,  
(Valasu School Backside),  
Surampatty Post, Erode-638009.  
8. Phone –Mobile : 9865549424  
9. E\_mail ID : chemmani03@gmail.com  
10. Marital Status : Married  
11. Languages Known : Tamil, English  
12. Particulars of Educational Qualification :

Name of the Degree	Specialization	Name of the College	Name of the University	Month & Year of Passing	% of Marks / Grade obtained	Class obtained
Ph.D	Nanochemistry	Jamal Mohamed College, Trichy	Bharathidasan University	July 2018	-	-
M.Phil	Chemistry	-	Bharathidasan University	July 2004	61.6%	II
M.Sc.	Chemistry	Jamal Mohamed College	Bharathidasan University	Nov 1999	64.93%	I
B.Sc.	Chemistry	Sri Vasavi College	Bharathiar University	April 1997	60%	I
HSC	Science	Sengunthar Higher Sec.School	BOARD OF HIGHER SECONDARY EDUCATION	March 1994	67	-
SSLC	-	CSI Boys Higher Sec.School	BOARD OF SECONDARY EDUCATION	April 1992	77.6	-

13. Additional Qualification : **NIL**

- i. GATE Score (In case of B.E. / B.Tech.)  
 ii. NET / SLET (In case of M.C.A. / M.Sc. / M.A.)

14. Title of Ph.D. Thesis : Synthesis, characterization and applications of pure and doped nanomaterials

15. Faculty in which Ph.D. was awarded/doing :

16. Area of Specialization : Nanochemistry

17. Academic Experience as on 28.02.2022 :

Name of the College	Designation	From	To	Experience		
				Years	Months	Days
Velalar College of Engineering & Technology	Professor	01.09.2018	28.02.22	3	6	0
	Assoc. Prof	01.07.2014	31.08.2018	4	2	0
	Asst.Pro(SL.GR)	01.01.2011	30.06.2014	3	6	0
	Senior Lecturer	01.12.2009	31.12.2010	1	1	0
	Lecturer	22.08.2001	30.11.2009	8	3	8
Total				20	6	8

18. Industrial Experience: **NIL**

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Total							

19. Research Experience : **NIL**

20. Number of projects: **NIL**

i) Completed

Sl. No.	Title of the project	Funding Agency	Amount	Year (From-To)

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ii) On-going

Sl. No.	Title of the project	Funding Agency	Amount	Date of Commencement	Expected date of completion

21. Number of Ph.D. candidates successfully completed : **NIL**

22. Number of Ph.D. candidates currently working : **NIL**

23. Number of M.Phil.Candidates successfully completed : **NIL**

24. Number of M.Phil.Candidates currently working : **NIL**

25. Publications:

i) Books

Sl. No	Author/s	Title	Publisher	Year of publication	Page No.
1.	<b>Dr.K.Manikandan</b> Dr.S.Kalaiselvi L.Umamaheswari, D.Umamaheswari	Engineering Chemistry	KKS Publishers Plat No 17&18,F2,Thendral Appartments, Brindavan Nagar, West Tambaram, Chennai -600045	January 2021	
2	<b>Dr.K. Manikandan,</b> Dr.S.V. Elangovan, K.N.Prabhakar, M.Gowri	Environmental Science and Engineering	KKS Publisher, F2, Thendral apartments, West tambaram,Chennai-45	January 2020	
3	Dr.N.Krishnaveni, <b>K.Manikandan,</b> S.V.Elangovan,	Applied Chemistry-II	Tata McGraw Hill Publishers,	2017	

ii) Articles in Journals

Sl. No.	Title of Article	Journal	Volume No.	Page No.	Month & Year
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1	Facile synthesis and characterization of W-doped TiO <sub>2</sub> nanoparticles: Promising anticancer activity with high selectivity	Inorganic Chemistry Communications (Elsevier)	132		Oct 2021
2	Synthesis and characterisation of pure and W-doped TiO <sub>2</sub> nanoparticles and its application to antimicrobial activity	Wutan Huatan Jisuan Jishu	XVI	X	Oct 2020
3.	The investigation on structural, optical and morphological behaviour of pure and Co-doped TiO <sub>2</sub> nanoparticles developed via sol-gel approach for biological activity	Material Research Express	6	1-11	Feb 2020

iii) Monographs/Reports (if any)

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iv) NPTEL Courses **NIL**

26. Summer schools / Workshops / Seminars / Symposium / Conferences, etc., attended

S. No	Period		Name of the Event	Topic / Title	Organized by	Only participated	Participated and presented the paper
	From	To					
1	09.07.2021	-	Webinar	Global Climate change	Pachaiyappa's college, Chennai-30.	Participated	
2	15.06.2021	-	Webinar	The Radical power of the atom- Peaceful	Karunaya Deemed University	Participated	
3	12.06.2021	-	Webinar	Nano materials for energy and environmental sustainability	Department of Science and Humanities, Nehru Institute of Technology	Participated	
4	09.06.2021		Webinar	Solar Cell- an Overview	JP College of Arts and Science, Tenkasi.	Participated	
5	05.06.2021		Webinar	Environment and ecosystem restoration	Adithya Narayan College,	Participated	

6	28.05.2021		Webinar	Engaging students via adoptable	Arjun College of Technology	Participated	
7	04.01.2021	07.01.2021	Webinar	Recent Trends in Chemistry	Department of Chemistry, Bharathiar University	Participated	
8	12.11.2020		Conference - virtual mode	5 <sup>th</sup> International Conference on Chemical and Environmental Research (ICCER-2020)	PG and Research Department of Chemistry, Jamal Mohamed College, (Autonomous) Trichy-20		Participated and presented
9	12.10.2020		Webinar	Emotional Intelligence	Department of Chemistry, Velalar College of Engineering and Technology	Participated	
10	09.09.2020		Webinar	E waste –Global challenges and Indian Scenario	Department of Chemistry, Velalar College of Engineering and Technology	Participated	
11	03.09.2020		Webinar	Role of liquid crystals in day to day life style	Department of Physics, Velalar College of Engineering and Technology,	Participated	
12	03.07.2020		Webinar	RO water- An overview approach	Department of Science and Humanities, Builders Engineering College	Participated	
13	30.06.2020	01.07.2020	Webinar	Insight on proposal for funding agencies and Research	Kongu Engineering College	Participated	

14	29.06.20		Webinar	Basic Science behind Medical MRI	PG and Research Department of Chemistry, Thiruvalluvar Government Arts College,	Participated	
15	25.06.2020		Webinar	Competence versus performance – The role of teachers in contemporary India	Department of Science and Humanities SRM TRP Engineering College	Participated	
16	22.06.2020		Webinar	Role of Nanoscience n Health materials	Department of Physics, Government Arts College, (Autonomous) Salem	Participated	
17	22.06.2020	24.06.2020	Webinar	Research	Department of Chemistry, Vels Institute of science and Technology	Participated	
18	22.06.20		Webinar	Basic Author Workshop Research Article Writing & Reference Management Using Mendeley	Faculty of Science, Annamalai University in collaboration with ELSEVIER	Participated	
19	20.06.2020		Webinar	Tutorial on NAAC Accrediation	Stella Maris College	Participated	
20	15.06.2020	19.06.2020	Webinar	Advanced material research	Bharath Institute of Engineering and Technology, Chennai	Participated	
21	04.06.2020	08.06.2020	Webinar	Chemistry in our day today life	Department of Chemistry ,Jamal Mohamed College	Participated	

22	08.01.2020	-	5 <sup>th</sup> International Conference on Chemical and Environmental Research (ICCER-2020)	Synthesis and Characterisation of Pure and W-doped TiO <sub>2</sub> Nanoparticles and its application to antimicrobial activity	PG and Research Department of Chemistry, Jamal Mohamed College, (Autonomous) Trichy-20	-	Participated and presented
23	04.09.2019	-	National level Seminar	CSIR sponsored one day national conference	Physics department, VCET	-	Participated and presented
23	22.03.2019	-	National level Seminar	Applications of mathematics in cryptography and information security	Mathematics department, VCET	-	Participated
24	26.11.2018	-	National level Seminar	Applications of graph labeling in communication networks	Mathematics department, VCET	-	Participated

27. Refresher / Orientation course / FDP, etc., attended **NIL**

Sl. No	Period		Topic / Title	Organized by	Expenses met by VCET / Own / Organizer
	From	To			

28. Seminars / Conferences / Symposia / STTP / SDP / Workshops organized: **NIL**

Sl. No	Date	Event	Status as organizer	Topic / Title	Name of the funding agency	Grant (Rs.)	Status (Applied/Granted/In Progress / Completed) If completed the date of submission of UC with reference

29. Referee ship / Editorship of Journals, Conferences/Seminars chaired etc.: **NIL**

Sl. No.	Name of the Journals and Conferences/ seminar	Organized by	Date / Period

30. Chairman/Member of Authority/Committee etc: **NIL**

Sl. No.	Chairman/Member/Secretary	Committee/Authority	Year (From-To)

31. Membership to professional Organization/Associations:

Sl. No.	Name of the Association/Organizations	Life member/Ordinary member
1	<b>ISTE</b>	<b>LIFE MEMBER</b>

32. Travelled Abroad for training or Studies (if 'yes' fill the following details):**NIL**

Country visited	Period of Visit		Purpose of Visit
	From	To	

33. Consultancy Information's, if any **NIL**

34. Details of the Patents, if any **NIL**

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Sl. No.	Dairy Number	Title	status



35. Contribution for the Development of the Institution/ Department

a	To The Institution	<ol style="list-style-type: none"> <li>1.YRC Programme Officer,</li> <li>2.Convener for convocation gown and robes, batch preparation incharge for graduation day function,</li> <li>3.Food committee member in first year inauguration function,</li> <li>4.Chairperson for class committee meeting for CSE01A, BME01B, CVL02.</li> <li>5.Admission coordinator for admission related work for the academic year 2020-2021, 2021-2022.</li> <li>6. Stock verification officer for MBA department.</li> <li>7. Member in Antiragging committee and antiragging squad,</li> <li>8.Member in Grievance redressal committee.</li> </ol>
b	To the Department	<ol style="list-style-type: none"> <li>1. Department coordinator,</li> <li>2. Autonomous Coordinator for Chemistry Department,</li> <li>3. Chairman for Autonomous Engineering Chemistry Board Valuation</li> <li>4. Chairman for Autonomous Environmental Science and Engineering Board valuation</li> <li>5. Creteria 2 incharge for Science and Humanities department</li> <li>6. Coordinator for induction programme for first year.</li> <li>7. Remedial class file incharge for S&amp;H.</li> </ol>

36. Academic Performance:

S. No	Academic Year	Course	Semester	Class	Course	Total Students	Pass %
1	2020-21	Theory	I	20EC1A	18CYT11- Engineering Chemistry	57	100
2		Lab	I	20EC1A	18PHL11-Physics and Chemistry Lab-I	57	100
3		Lab	I	20BM01B	18PHL11-Physics and Chemistry Lab-I	56	100
4		Theory	II	20EC2A	18MCT02-Environmental Science and Engineering	57	100
5		Lab	II	20EC2A	18PHL21-Physics and Chemistry Lab-II	57	100
6		Lab	II	20BM02B	18PHL11-Physics and Chemistry Lab-I	56	100
7	2019-20	Theory	I	19ECE01A	18CYT11 Engineering Chemistry	52	98
8		Lab	I	19ECE01A	18PHL11-Physics and Chemistry Lab-I	52	100
9		Theory	II	19ECE02A	18MCT02-Environmental Science and Engineering	52	100
10		Lab	II	19ECE02A	18PHL21-Physics and Chemistry Lab-II	52	100
11	2018-19	Theory	I	MEC01A	18CYT11-Engineering Chemistry	40	77.5
		Theory	I	MDE01	18CYT21 Environmental Science and Engineering	30	93.3
12		Theory	I	MEC01A	18PHL11-Physics and Chemistry Lab-I	40	100
13		Theory	II	MEC02A	18CYT21 Environmental Science and Engineering	40	92.5
14		Theory	II	MDE02	18CYT21 Environmental Science and Engineering	30	90
15		Lab	II	MEC02A	18PHL11-Physics and Chemistry Lab-II	40	100

b. Student's Projects guided:

Sl. No	Academic Year	UG/PG	No. of Students	Title of the Project	Awards if any

37. Awards/Recognitions :

1. Certificate of Appreciation for above 95% results in Applied Chemistry-I, Applied chemistry-II and Environmental Science and Engineering for the year 2017-2018 (ECE05B, BME01B, BME01B & IT04B).

38. Self Assessment of Performance

S.No	Strengths	Weakness
	Excellent academic performance with positive progression by means of securing good pass percentage, Long teaching experience, Soft spoken, friendly approach to others, Hard working.	Filing patents, Obtaining grants for research proposals from funding agencies,