

Dr. M. Kavitha, M.Sc., M.Phil., Ph.D.,  
Assistant Professor  
PG & Research Department of Chemistry  
Holy Cross College(Autonomous)  
Tiruchirappalli-620002.



Professional Summary:

I am working as an Assistant Professor of Chemistry for the past 12 years. My teaching methodology is simple and effective. I have thorough knowledge of the subject and have great practical knowledge.

1. **Department** : **CHEMISTRY**
2. **Date of Birth** : **19.04.1975**
3. **Gender** : **FEMALE**
4. **Category (tick the category)** : **BC**
5. **Date of appointment in Holy Cross College** : **18.06.2018**
6. **Current Designation** : **ASSISTANT PROFESSOR**
7. **Date of eligibility for Career Advancement** : **15.02.2019**
8. **Address for Correspondence (with Pincode)** : **No. 56, South Street,  
Jangamarajapuram,  
Anbil,  
Tiruchirappalli –  
621 702**

**Mobile No.: 976574115**

**Email** : **kavitha2018hcctrichy.ac.in**

**1. Academic Qualifications**

<b>Examination</b>	<b>Subject (s)</b>	<b>Name of the Board / University</b>	<b>Year of Passing</b>	<b>Percentage of marks obtained</b>	<b>Division/ Class/ Grade</b>
SSLC	Tamil, English, Maths, Science, Social Science	STATE BOARD	1991	81	I

HSC	Tamil, English, Maths, Physics, Chemistry, Biology	STATE BOARD	1993	74	I
B.Sc	Chemistry	BHARATHIDASAN	1996	78	I
M.Sc	Chemistry	BHARATHIDASAN	1998	68	I

## 2 Research Degree (s)

Degrees	Thesis Title	Date and year of award	University
<b>M.Phil.</b>	Synthesis and Characterization of [16]-membered macrocyclic complexes of 3d metals	30.08.2001	BHARATHIDASAN
<b>Ph.D.</b>	A study on the antidiabetic and antioxidant potentials of <i>Ficus benghalensis</i> L. and <i>Musa paradisiaca</i> L – A preliminary investigation to isolate active phytoconstituents	15.02.2019	BHARATHIDASAN

## 3. Position held in other Colleges / Institutions / Industries worked:

Designation	Department	Colleges/ Institutions / Industries worked	Date		Grade Pay
			From	To	
Assistant Professor	Chemistry	Holy Cross College	19.01.2000	31.05.2008	
Assistant Professor	Chemistry	K. Ramakrishnan College of Technology	01.06.2011	31.12.2004	28500
Assistant Professor	Chemistry	M.A.M. College of Engineering	02.01.2015	11.05.2015	22500
Assistant Professor	Chemistry	Srimad Andavan Arts and Science College	2.06.2017	18.04.2018	18000
Assistant Professor	Chemistry	Holy Cross College	18.06.2018	13.01.2023	25000

4. Teaching Experience : Total : 20 years

## UG LEVEL

Holy Cross college			Other colleges		
Days	Months	Years	Days	Months	Years
06	10	12	06	02	07

## PG LEVEL

Holy Cross College			Other colleges		
Days	Months	Years	Days	Months	Years
06	10	12	27	09	0

### 5. Fields of Specification under the Subject / Discipline:

Analytical Chemistry  
Organic Chemistry  
Phytochemistry  
Inorganic Chemistry

### 6. Subjects specialized in Teaching : (UG,PG)

Analytical Chemistry  
Organic Chemistry  
Phytochemistry  
Inorganic Chemistry

### 7. Orientation / Refresher / Other Courses attended \* :

Name of the Course	Academic Staff College, University	Duration in Days	From – To (Mention Date here)
National One week FDP on Carbon Capture and Storage	Central University of Tamilnadu, Thiruvarur	5	21-25 February 2022
Two day Faculty Development Programme on Recent Developments in Materials Science	Srimad Andavan Arts and Science College (Autonomous) Tiruchirappalli- 620 005	2	(23.09.2021) and (24.09.2021)
One week online International Faculty Development Program (FDP) on “Artificial Intelligence and IoT- Heuristic Transdisciplinary perspectives	Holy Cross College (Autonomous), Tiruchirappalli- 620 002	7	4th – 10th July 2020

### 8. Research Experience

(Excluding Years spent in pursuing M.Phil. / Ph.D.) : 4 Years 7 Months

### 9. Research activities – Papers Published:

Academic Year	Nature of the Journal	Details
2009-2010	Journal of the Indian Chemical Society Volume 86, Issue10, 1108-1111, 2009	Kinetics and mechanistic investigation of N-bromonicotinamide oxidation of aromatic aldehydes
2009-2010	Asian Journal of Chemistry, Volume 22, Issue 1, 265	Kinetics and Mechanism of Oxidation of Aliphatic Alcohols by N-Bromonicotinamide in Aqueous Acetic Acid
2012-2013	International Journal of Pharmacy and Pharmaceutical Sciences., 4(5): 426-429, 2012	Studies on the Physico-phytochemical properties and hepatoprotective effect of <i>Solanum touruum Swartz</i> in CCl <sub>4</sub> induced experimental toxicity in albino rats
2013-2014	International Journal of Pharmaceutical Sciences Review and Research 24(1): 46-50, 2014	An Evaluation of Antidiabetic potential and physico-phytochemical properties of <i>Tephrosia puspurea</i> (Linn) pers in streptozotocin induced Diabetic Model in Albino rats
2014-2015	International Journal of Pharmaceutical Sciences Review and Research. 27(1): 283-287, 2014.	Inter-Specific Variation Studies on the Phyto-Constituents of <i>Boerhaavia diffusa</i> L. and <i>Cichorium intybus</i> L. using Phytochemical Methods
2014-2015	World Journal of Pharmacy and Pharmaceutical Science, 3 (5), 1415- 1427, 2014	A comparative study on the green biosynthesis silver nano particles using dried leaves of <i>Boerhaavia diffusa</i> L. and <i>Cichorium intybus</i> L. with reference to their antimicrobial potential
2017-2018	Asian Journal. Innovative Research, 2(1): 38- 48, 2017.	Synthesis of nanoparticles from <i>Ficus benghalensis</i> bark and evaluation of its antimicrobial and antioxidant activity..
2017-2018	World Journal Scientific Research Res., 2(1): 18-27, 2017	Green biosynthesis of silver nanoparticles using flower of <i>Musa paradisiaca</i> L. with reference to their antimicrobial and antioxidant potential.
2019-2020	International Journal of Innovative Science, Engineering & Technology Vol 6, issue 12, Dec 2019	A review on recent progress in the synthetic utility of N-halo compounds and their biological significance
2021-2022	Oriental Journal of Chemistry, Vol. 38, No.(5), Pg. 1320-1327, 2022	Biogenic Synthesis of Copper oxide and Zinc oxide Nanoparticles using <i>Catharanthus roseus</i> L. flower extract and Evaluation of Its Antioxidant and Antibacterial Properties
2023-2024	International Journal of Biology, Pharmacy and Allied Sceinces	Antirolithiatic Activity of Biogenically Synthesized Silver Nanoparticles Using the Stem Bark Extract Of <i>Hybanthus enneaspermus</i> (l) f. Muell

### 10. Research activities – Papers Presented:

Academic Year	Name of the Conference	National / International	Details
2019-2020	'Recent Innovations in Phytochemistry', RIPC -2019	National	Qualitative Phytochemical Screening and Invitro antioxidant activity of <i>Musa paradisiaca</i> .L, J.J. College of arts and Science, Pudukkottai, 21 <sup>st</sup> and 22 <sup>nd</sup> August 2019

2019-2020	International Seminar on Drug Development Research – Current Scenario(ISDDRCS)	International	Phytochemical screening and invitro antioxidant activity of <i>Ficus benghalensis</i> .L bark Srimad Andavan Arts and Science College, Trichy, 26 <sup>th</sup> February 2020
2019-2020	International Seminar on Drug Development Research – Current Scenario(ISDDRCS)	International	Phytochemical analysis , antidiabetic and antioxidant activity <i>Ocimum tenuiflorum</i> L. leaf extract, Srimad Andavan Arts and Science College, Trichy, 26 <sup>th</sup> February 2020

#### 11. Conferences /seminars/ symposia/workshops - Attended :

Academic Year	Name of the Conferences /seminars/ symposia/workshops	National / International	Online/ offline	Details
2018-2019	9 <sup>th</sup> National Conference on Natural Sciences	National	Offline	Puskaram College of Agriculture Sciences, Pudukkotai, 24 <sup>th</sup> August 2019
2020-2021	National Webinar on 'General Characteristics of d-block elements- NET Examination'	National	online	Government Arts College, Salem 1 st July 2020
2020-2021	One week online International Faculty Development Program (FDP) on "Artificial Intelligence and IoT- Heuristic Transdisciplinary Perspectives	International	online	Holy Cross College (Autonomous), 4th – 10th July 2020
2020-2021	National Webinar on 'Chemistry for better Health'	National	online	Government Arts College, Salem 7th July 2020
2020-2021	National Webinar on 'Gender Equity: Agency and Empowerment"	National	online	Women Study Centre, Holy Cross College, Trichy, 22nd July 2020
2020-2021	Innovative Teaching & Skills for Online Classroom	Course	Online	Tamil Nadu Open University April 2021
2021-2022	National One week FDP on Carbon Capture and Storage	National	online	Central Unversity of Tamilnadu, Thiruvarur, 21-25 February 2022
2021-2022	Two day Faculty Development Programme on Recent Developments in Materials Science	National	online	Srimad Andavan Arts and Science College(Autonomous) Tiruchirappalli- 620 005 (23.09.2021) and (24.09.2021)

**12. Projects undertaken :**

<b>Academic Year</b>	<b>Government / Private</b>	<b>Details</b>
<b>2019-2020</b>	<b>Private(Seed Grant)</b>	Phytochemical analysis of <i>Moringa oleifera</i> Lam. and greenway synthesis of silver nanoparticles

**13. Resource Person :**

<b>Academic Year</b>	<b>Name of the Programme</b>	<b>Date</b>	<b>Details</b>
2022-2023	Consumer Club	20.10.2022	Holy Cross College(Autonomous), Thiruchirappalli 620002
2022-2023	Recent Trends in General Chemistry	02.11.2022	Dr. Kalaignar Government Arts College, Kulithalai – 639 120
2022-2023	Recent Trends in General Chemistry	19.11.2022	Dr. Kalaignar Government Arts College, Kulithalai – 639 120
2023-2024	Principles and Applications of Electronic Spectroscopy	19.11.2023	Jairams College of Arts and Science College, Karur - 639003
2023-2024	Empowerment of Women in STEM	11.02.2024	M.A.M. College of Engineering, Trichy - 610105
2023-2024	Consumer Club	13.02.2024	Holy Cross College(Autonomous), Thiruchirappalli 620002
2023-2024	Two days workshop on “Journey into Science - Exploration of Wonders”	30.05.2024 & 31. 05 2024	PG & Research Department of Chemistry, Holy Cross College (Autonomous), Tiruchirappalli 620 002,
2024-2025	“Preparation of Chemical reagents and Laboratory safety measures for newly recruited staff and nonteaching staff”	28.06.2024	PG & Research Department of Chemistry, Holy Cross College (Autonomous), Tiruchirappalli 620 002,
2024-2025	Entrepreneurial Skills in Chemistry	07.10.2024	Holy Cross College(Autonomous), Thiruchirappalli 620002

**14. Recognition/Awards received**

<b>Academic Year</b>	<b>Government / Private</b>	<b>Name of the award</b>
<b>2019-2020</b>	<b>Private</b>	Professor C.N.R. Rao Best Young Scientist Award from Bose Science Society

**15. Outreach Activities**

<b>Academic Year</b>	<b>Details</b>
2002 - 2003	Conducted 10days NSS Camp at Thiruvallarai
2003 - 2004	Conducted 10days NSS Camp at North Paganur

**16. Extension Activities**

<b>Academic Year</b>	<b>Details</b>
2018 - 2019	RESCAPES Village Visit for II Chemistry 'A' – 28.01.2019
2018 - 2019	RESCAPES Village Visit for I Chemistry 'A' – 11.03.2019
2018-2019	Industrial Visit for III Chemistry to Sandal wood oil company at MYSORE
2019-2020	Industrial Visit for II Chemistry– CECRI, Karaikudi
2020-2021	Industrial Visit for I M.Sc Chemistry– IICPT - Thanjavur



**Any Other Relevant Information:**

(Give details of any other credentials, significant contributions, awards received, etc.)

Academic Year	Details (Enclose copies of relevant certificates / documents)
2018-2019	National Nutrition Week - II Prize in Nutri-find Competition(06.09.2018)
2021-2022	National Nutrition Week - II Prize in Delicious Diet to fight against COVID Competition(02.09.2021)
	National Nutrition week – II Prize in Nutri Riddle Competition(07.09.2022)
2021-2022	Book Chapter - Selective behavior of Aromatic Acetals towards N-Haloamides – A kinetic approach in Emerging Trends in Science, Social Science, Engineering and Management- Multidisciplinary approach
2022 -2023	Lab Manual for UG students
2022 - 2023	Copyright(L-119147/2022) on Method for producing a catalyst material for An electrode of an electrochemical cell

**Accompanied students outside the college for programmes**

Academic Year	Details
2019-2020	Intercollegiate Competition on Periodic Table held at Lady Doak College, Madurai

**Any other contribution to the student community**

Academic Year	Details
2018-2019	I year B.Com-BPO mentor students(5)
2020-2021	I PG Chemistry mentor Students(10)
2021 -2022	I Year Tamil Students(6)
2022 - 2023	I Year English Students(5)

**Involvement in the College Students related activities**

Academic Year	Activities	Description
2019-2023	1.	Swayam – Department in-charge
	2.	Internship Department in-Charge