

FACULTY PROFILE

Name of the Faculty:		Dr. VARDHANA SYAMALA				
Designation:		ASSISTANT PROFESSOR				
Department:		CHEMISTRY				
Date of Birth:		26-08-1973				
AICTE- ID:		1-43109580				
Education		B. Sc in Chemistry, Physics, Zoology from A.A.S College. Adoni. University/Institute in 1994 - M.Sc in Chemistry (Specialization: Radio Chemistry) from Sri Venkateswara University in 1998. - PhD in Chemistry (specialization: Physical Chemistry) from Sri Venkateswara University in 2007.				
Experience		Teaching: 17 Years	Industry: ____ Years		Total: 17 Years	
		Research:	Others: ____ Years			
Research Specialization		Excess Thermodynamic Properties of Organic Solutions (Binary & Ternary Liquid Mixtures).				
Courses taught		1. I/IV B.Tech Semester I Engineering Chemistry. 2. I/IV B.Tech Semester II Engineering Chemistry. 3. I/IV B.Tech Semester I & II Engineering Chemistry Lab.				
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing SCI/WoS/ SCOPUS, Google scholar)
1	Volumetric and Ultrasonic behaviour of Acetophenone with dichloro and tri chloro benzenes At 303.15K. V.Syamala, P.Venkateswarlu,	<i>Phys. chem. liqs.</i>	<i>2006</i>	<i>44</i>	<i>127</i>	SCI

	G.Prabhakar and K.Sivakumar					
2	Excess volumes, Speeds of sound, isentropic compressibilities and Viscosities of binary mixtures of Acetophenone with chlorotoluenes and nitrotoluenes at 303.15 K Vardhana Syamala, Ponneri Venkateswarlu, Kasibhatta Sivakumar	<i>J. chem. Eng.Data,</i>	2006	55	928	wos
3	Volumetric, Ultrasonic and Viscometric studies of binary mixtures of dimethyl sulphoxide with chloro and nitro substituted aromatic hydrocarbons at T=303.15 K V. Syamala , K. Sivakumar, P. Venkateswarlu	Journal of chemical thermodynamics	2006	38	1553	Sco pus.
4	Volumetric behaviour of ternary organic liquid mixtures containing dimethyl sulphoxide,1,2-Dichloro dichloro benzene and 1- alkanols at 303.15 K. V. Syamala , K. Sivakumar, P. Venkateswarlu	J. Molecular. liq	2007	136	29-34	SCI
5	Volumetric Ultrasonic and transport properties of binary liquid mixtures containing dimethyl Formamide at 303.15 K Vardhana Syamala, D. Rajasekhar, Kasibhatta Sivakumar, Ponneri Venkateswarlu	Chin. J. chem.	2007	1	25	SCI
6	Speed of sound , isentropic compressibilities and Viscosities of ternary non-electrolyte solutions at 303.15 K V. Syamala, D. Rajasekhar K. Sivakumar, P. Venkateswarlu	Phys. chem. liqs	2010	48	171-182	SCI

7	Effect of various substitutes on benzene ring and their impact on volumetric, acoustic and transport properties of binary liquid mixtures with dimethyl acetamide. V.Syamala, L.Venkatramana, C.Narasimharao, K.Sivakumar, P.Venkateswarlu, R.L.Gardas	Fluid phase Equilibria.	2015	397	68-80	SCI
8	Development and validation of asensitive nd stable HSGC method for simultaneous determination of two N-Nitrosamine impurities in omeprazole sodium drug substances and drug products by using quality by design approach.	IJRAR	2023	10	11-18	ugc
9	Study of molecular interactions in Binary mixtures at various tempratures Containing 2,6 – Dimethyl cyclohexanone and Aliphatic Primary Alcohols: Thermodynamics and FT-IR Spectroscopic Studies.	Journal of Chemical Engineering Data	2023			wos
10	Growth , structural and optical studies on pure and L-Histidine dopped single crystals of Copper sulphate.	Chelonian conservation and Biology	2023	18(2)	1448-1454	SCO
11	Structural,Optical and AntiBacterial studiesof pure& aminoacid added single crystals.	Chelonian conservation and Biology	2023	18(2)	1435-1447	SCO
12	Hepatoprotective Activity of Polyherbal Formulation Encompassing Original Therapeutic Plants in Rats. Dr. S. Pullareddy,Dr. j. saichandra, Dr. V. Syamala, Dr. K. A. Emmanuel, Dr. R. Jalababu.	Nanotechnology perceptions.	2024	20	2147-2152	Sco
13	Charecteristics, Optical, Structural, and Dielectric studies on Pure and Doped L-Prolonium Trichloroacetate Single Crystals.	Journal of Chemical Health Risks	2024	14(6)	815-820	Sco
14	Michel reaction of indoles with alpha,beta unsaturated carbonyl	Research journal of Chemistry and	2025	Vol 29(12)		SCO

	compounds by using environmental benign reagent DIB Phani. R. S CH, Dakshyani,Chaitanya Darapureddy,Vardhana.Syamala, Umamaheswar. Korrapati	Environment.				
15	A Comparative study between the Silver based Drug Nano-Chitosan Complex and Abraxane Dr. J. SaiChandra, Mrs. A. Prasanna Lakshmi,Dr. K.A. Emmanuel,Ms. K.A. Sujitha, Dr.V. Syamala, Dr. K.V.L.N.Murthy.	International journal of Research and Scientific Innovation (IJRSI)	2025	Vol XII		wos

Books published

S. No.	Title of the book	Publisher	year
1	Fundamentals of Chemistry	Blue link	2023

Details of Conferences/FDPs/STTPs/webinars/Workshops Participated: 22

S.No.	Name of the event	Organized by	Dates
1	Live webinar on "SOLAR WATER SPLITTING USING NOVEL MATERIALS .	PSNA college of Engineering and Technology.	Oct 27, 2020.
2	National Webinar entitled "Exploring the New Approaches and Dimensions in Organic Chemistry".	Sri Padmavati Mahila Visvavidyalayam (Women's University)	25th Nov,2020.
3	Webinar on "Photochemical aspects of 3-Hydroxy-chromen-4-one and it's derivatives". 29-08-2020.	Vignan's Institute of Management & Technology for Women, Hyderabad	29-08-2020.

4	webinar on “Research Opportunities in Powder Metallurgy Based Forming”.	Vignan's Institute of Management & Technology for Women, Hyderabad.	15-09-2020
5	webinar on “Journey to Mars and Moon” .	Vignan's Institute of Management & Technology for Women, Hyderabad	03-09-2020
6	A two day International Webinar on Biotechnology: Modern Molecular Approaches.	Sri Padmavathi Mahila Viswa Vidyalayam Tirupathi. AP India.	10& 11 sept 2020
7	webinar on “Solar Photovoltaics- A Journey to New Age Energy Resources”.	Vignan's Institute of Management & Technology for Women,	29-09-2020
		Hyderabad.	
8	National Webinar on CHEMDRAW IN TEACHING CHEMISTRY AND RESEARCH .	Govt Degree College . Razole	28 TH AUGUST 2020.
9	International Webinar on BioMedical Product Development-Challenges and oppourtunities	Govt Degree college Pithapuram	4 th August 2020.
10	International Virtual Conference On Nanomaterials, FIVCON-2020..	Acharya Nagarjuna University, Guntur, AP., India	10th – 12th September.2020
11	one week online Faculty Devolopment programme on Frontiers in material science research.	Madanapalle institute of Technology & science ,Madanapalle	Aug 24 – 28 ,2020.
12	3-Day Online FDP on “Environmental Pollution - Sustainable Technologies for its Control (EP-STC)	GMR Institute of Technology, Rajam	19th - 21st October, 2020

13	A Four Day National Level Faculty Development Programme on INNOVATIVE PEDAGOGY FOR FACULTY OF HIGHER EDUCATION.	Government Degree College, Ravulapalem, East Godavari District, Andhra Pradesh	10-09-2020 to 13-09-2020
14	AICTE sponsored STTP-II on Industrial pollution and control Strategies.	Anurag group of Institutions Ghatkesar (M) Medchal (D) Telangana	5-10 october 2020.
15	online faculty development programme on “Chemistry in Medicine and Materials Science”	National Institute of Technology Andhra Pradesh	21st - 25th September 2020
16	AICTE Training And Learning (ATAL) Academy Online FDP on "Stress-management"	MAULANA AZAD NATIONAL URDU UNIVERSITY POLYTECHNIC HYDERBAD.	2020-11-2 to 2020-11-6
17	FDP on Material Synthesis and	Meenakshi Institute	31 st aug – 5 th sept 2020
	Charecterization for Device Applications.	of Technology. Yelahanka. Bangalore.	
18	A Five Day Online National level Faculty Development Programme on “Advanced Techniques for Purification and Characterization of Organic Compounds”	JNTUK-UCEV	24th to 28th August, 2020
19	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Emotional Resillance".	Mahatma Jyotiba Phule Rohilkhand University.	25/09/2021 to 29/09/2021
20	Webinar on NANOMETERIALS AND THEIR APPLICATIONS	Krishna University. Machilipatnam.	3 rd august 2021

21	One day National webinar “Instrumental methods of Chemical analysis: Fundamentals to Engineering applications ”	Department of Chemistry(H&S) PBR Visvodaya Institute of Technology & Science. [AUTONOMOUS], Kavali, SPSR Nellore Dist, A.P.	09.07.2021
22	One Week Online Faculty Development Program on “Role of Chemistry in Advanced Engineering Materials (RCAEM- 2021)”	Vasavi College of Engineering (A), Hyderabad.	25th - 29th October, 2021
23	Faculty Development Programme	NPTEL-AICTE	Sept-Dec 2020

Student Project/research guidance

S.No	Level	Total number	
1	UG	Completed:	Ongoing:
2	PhD	Completed:	Ongoing:

Administrative experience

S.No.	Role	Duration (From – to)
1	1/4 Civil- B Class Coordinator	2014-15 Sem I&II
	Member in Anti Ragging Committee	2014-15
2	1/4 Civil- B Class Coordinator	2015-16 Sem I&II
	Member in Anti Ragging Committee	2015-16 Sem I&II
3	1/4 Civil- B Class Coordinator Question Bank In charge.	2016-17 Sem I&II
4	1/4 Civil- B Class Coordinator Question Bank In charge.	2017-18 Sem I&II
5	1/4 ECE-C Class Coordinator, Department News letter Incharge.	2021-22 Sem I&II
6	1/4 CSE-C Class Coordinator Department News letter Incharge. Member in Academic Development Committee.	2022-23 Sem I&II

Research credentials

Index/database	ID/Link
Google Scholar	R2S6K78AAAJ
SCOPUS	15045832300
Web of Science	
Vidwan ID	324380

(Dr. V. Syamala)