

FACULTY PROFILE

Name of the Faculty:		Dr. SEELAM MOHAN				
Designation:		Assistant Professor				
Department:		Chemistry				
Date of Birth:		01-07-1983				
AICTE – ID:		1-430210655				
Education		- MSc in Organic Chemistry from Andhra University in 2006 M. Phi. in Organic Chemistry Specialization from Acharya Nagarjuna University in 2012 - PhD in Organic Chemistry specialization from Acharya Nagarjuna University in 2018				
Experience		Teaching: 20 Years	Industry: 00 Years	Total: 20 Years		
		Research: 16 Years	Others: 00 Years			
Research Specialization		Synthetic Organic Chemistry				
Courses taught		1. Engineering Chemistry 2. Organic synthesis and Reaction Mechanism 3. Environmental Studies				
Research contributions						
International/national peer reviewed journals						
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing SCI/WoS/ SCOPUS, Google scholar)
1	Design and synthesis of new bis(α aminophosphonates) via ultrasound-driven nano BF ₃ -SiO ₂ catalysis targeting α -amylase inhibition: In silico ADME and molecular docking study	Phosphorus, Sulphur, and Silicon and the Related Elements	2026			SCI
2	Ultrasound-assisted synthesis of α -aminophosphonates using nano ZnO catalyst: evaluation of their anti-diabetic activity	Organic Communications	2024	17 (4)	249-264	Scopus
3	Novel Quantitative Estimation of Rucaparib and Bevacizumab in Rat Plasma Using LC-MS/MS & Study of Pharmacokinetics	International Journal of Pharmaceutical Quality Assurance	2024	15 (3)	1109-1114	Scopus
4	Ultrasound mediated nano ZnO catalyzed synthesis of new	Synthetic Communications	2023	52(23)	2041-2060	SCI

	α -aminophosphonates as potential anti-diabetic agents; an in silico ADMET, molecular docking study, α -amylase and α -glucosidase inhibitory activity	ns				
5	"Method Development and Validation for Famciclovir and Valacyclovir by using UPLC and its Degradants are Characterized by LC-MS/MS"	International Journal of Pharmaceutical Quality Assurance	2022	13	232-239	Scopus
6	"Validated Method Development of Levamisole and Inosine pranobex by using UPLC & Characterization of Degradants by LC-MS/MS"	YMER	2022	21	734-744	Scopus
7	"Evaluation of Antimicrobial Activity of Aryl/Alkyl Cyanamides and Substituted Tetrazole Compounds"	Russian Journal of Bioorganic Chemistry	2022	48	292-299	SCI
8	"Development and Validation of RP-HPLC Method for the Simultaneous Determination of Cisplatin, Capecitabine and Trastuzumab"	International Journal of Pharmaceutical Quality Assurance	2022	13	30-38	Scopus
9	"Analytical Method Development & Validation for the Estimation of Temazolamide and Anastrozole by Using RP-HPLC Method"	Journal of Cardiovascular Disease Research	2021	12	985-995	Scopus
10	"A Novel Validated Gas Chromatography Headspace (GC-HS) Method for the Simultaneous Quantification of Six Organic Volatile Impurities in Biperiden HCL Pure and Pharmaceutical Dosage Forms"	International Journal of Pharmaceutical Quality Assurance	2021	12	309-315	Scopus
11	"Liquid Chromatography-Mass Spectrometry Method Development and Its Validation for the Estimation of Favipiravir and Remdesivir in the Rat Plasma"	International Journal of Current Research and Review	2021	13	67-74	Scopus
12	"3-D Printing Technology in Pharmaceutical"	Natural volatiles and Essential oils	2021	8	5342-5349	Scopus
13	"A Simple Reversed Phase High Performance Liquid Chromatography Method for the	Indian Journal of Pharmaceutical	2021	83	701-713	SCI

	Estimation of Related Substances, Assay of Cabozantinib and Nivolumab and its Application to Dissolution Studies"	Sciences				
14	"Rp-Hplc Method for Simultaneous Estimation of Vildagliptin and Metformin in Bulk and Pharmaceutical Formulations"	International Journal of Current Research and Review	2021	13	112-117	Scopus
15	"Iodine- Mediated Multi-Component Reactions: Readily Access to Tetrazoles and Guanidines"	Letters in Organic Chemistry	2021	18	382-388	Scopus
16	"A NEW WAY OF METHOD ESTABLISH AND VALIDATED OF RELATED SUBSTANCE OF GLASDEGIB BY RP-HPLC AND ITS FORCED DEGRADATION STUDY"	International Journal of Pharmaceutical Sciences and Research	2021	12	1599-1607	Scopus
17	"Development and Validation of RP-HPLC Method for the estimation of L-methyl Folate and Tofisopam in combined Formulation"	Asian Journal of Research in Chemistry	2021	14	28-36	UGC
18	"Validated RP-HPLC Method for simultaneous estimation of Domperidone and Naproxen in bulk Drug and Formulations"	International Journal of Innovative Engineering and Management Research	2020	09	701-706	GS
19	"Novel validated reverse-phase high-performance liquid chromatography method for determination of glucosamine, diacerein, and methyl sulfonyl methane in micro sample rat plasma and its application to pharmacokinetic and dissolution studies"	Asian Journal of Pharmaceutical and Clinical Research	2020	13	50-63	UGC
20	"Validated Spectrophotometric determination of Tiagabine HCl and Cefatamet Pivoxil Hydrochloride in Pharmaceutical Formulations"	Journal of Information and Computational Science	2020	10	327-336	GS
21	"Nickel mediated tandem reaction	Journal of	2020	7	610-619	GS

	towards the synthesis of Cyanamides”	Emerging Technologies and Innovative Research				
22	“Antimicrobial Activity of Benzimidazoles Derivatives”	International Journal of Management and Humanities	2020	4	23-27	GS
23	“Development and validation of a stability indicating related substances of Baricitinib by RP-HPLC and its degradation”	International Journal of Management and Humanities	2019	4	4-9	GS
24	“An Efficient Methodology for Iodine-Catalyzed Synthesis of N, N’ – Disubstituted Guanidines”	International Journal of Recent Technology and Engineering	2019	8	294-297	UGC
25	“Copper Promoted C-S and C-N Cross-Coupling Reactions: The Synthesis of 2-(N-Aryolamino)benzothiazoles and 2-(N-Aryolamino) benzimidazoles,	Tetrahedron	2019	75	3865-3874	SCI
26	“Analytical Stability Indicating HPLC Assay and Validation of Oxymetazoline HCl and Sorbitol In Bulk and Pharmaceutical Dosage form”	Journal of Emerging Technologies and Innovative Research	2018	5	653-659	GS
27	“Nano BF ₃ .SiO ₂ catalysed, microwave assisted Michaelis-Arbuzov reaction to synthesize biologically active phosphonates under solvent-free condition”	Materials today proceedings	2018	5	25832-25842	Scopus
28	“Stability-indicating RP-HPLC method for the determination of doxepin, benzyl alcohol and capsaicin in bulk & pharmaceutical dosage forms”	Journal of Emerging Technologies and Innovative Research	2018	5	97-111	GS
29	“Microwave assisted greener approach to synthesize α -aminophosphonates under catalyst free and solvent-free condition and their bioactivity evaluation”	International Journal for Research in Engineering Application & Management	2018		327-333	GS
30	“Cobalt promoted tandem	Chemistry of	2018	54	534-544	SCI

	reaction towards the synthesis of Aryl/Alkyl cyanamides and substituted tetrazoles”	Heterocyclic Compounds				
31	“SOLVENT –FREE SONOCHEMICAL KABACHNIC-FIELDS REACTION TO SYNTHESIZE SOME NEW α -AMINOPHOSPHONATES CATALYZED BY NANO BF ₃ .SiO ₂ ”	Phosphorus, Sulphur, and Silicon and the Related Elements	2018	193	400-407	SCI
32	“STABILITY INDICATING RP-HPLC METHOD FOR THE ESTIMATION OF DIETHYLCARBAMAZINE CITRATE, GUAIPHENESIN AND CHLORPHENIRAMINE MALEATE”	International Journal of Applied Pharmaceutics,	2018	10	124-135	Scopus
33	“Efficient Copper-Promoted Tandem Multi-Component Strategy: The synthesis of 1-Aryl/Alkyl-5-(N-Benzoylamino) Tetrazoles and Guanidine’s”	Chemistry Select	2017	2	11521 - 11525	SCI
34	“Microwave-assisted synthesis and anti-inflammatory activity evaluation of some novel α -aminophosphonates”	Phosphorus, Sulphur, and Silicon and the Related Elements	2017	192	1110-1113	SCI
35	“Analytical Method Development and Validation of Simultaneous Estimation of Paracetamol, Aceclofenac and Serratiopeptidase by RP-HPLC”	International Journal of Ophthalmology & Visual Science	2017	2	69-7	GS
36	An efficient methodology for the synthesis of thioureas from amine mediated by a cobalt source	Tetrahedron Letters	2016	57	5297-5300	SCI
37	“Pollution study in Bapatla town, Guntur District, Andhra Pradesh”	International Journal of Modern Trends in Engineering and Science	2016	3	6-9	GS
38	“Cobalt Mediated by Desulphurization towards the Synthesis of Isothiocyanates”	Synthetic Communications	2016	46	1759-1765	SCI
39	“Synthesis, Characterization and Antimicrobial activity of Some Flavones”	Asian Journal of research in Chemistry	2013	6	163-165	GS
40	“Synthesis, Characterization and Antibacterial activity of few Chalcones” International Journal of Pharma and Bio Sciences,	International Journal of Pharma and Bio Sciences	2012	3	781-788	UGC

41	"Synthesis characterization and Anti-microbial activity of some Chalcones"	International Journal of Pharmaceutical Research and Development	2012	4	97-101	GS
42	K "Synthesis characterization and Anti-microbial activity of some Chalcones"	International Journal of Pharmacy and Technology	2012	4	4060-4066	GS

26Books published

S. No.	Title of the book	Publisher	year
1	--	--	--

Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	--	--	--	--

Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	202141004378 A	Eclipta alba-based composition for haemorrhoids and its preparation method thereof	05/02/2021	Published
2	202141018335 A	Artificial intelligence-based animal detection and identification system for protection of field crops	30/04/2021	Published
3	202541014148 A	Immutable blockchain framework for edge computing resource management	07/03/2025	Published

Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1	National conference	Advisory committee Member	13-14th March-2020
2	National conference	Treasurer	29-01-24 to 31-01-24
3	International conference	Treasurer	27-3-25 to 29-3-25
3	International conference	Treasurer	23-3-26 to 25-3-26

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

S.No.	Name of the event	Organized by	Dates
1	International conference	RGM College of Engineering & Technology, Nandyal, India.	21-22nd December-2018
2	National seminar	PB Siddhartha College of Arts & Science, Vijayawada, India.	22nd, March-2018
3	National seminar	JKC autonomous College, Guntur, India.	21st February-2018
4	National symposium	JKC autonomous College, Guntur, India.	18th September-2017
5	International Symposium	SRKR Engineering College, Bhimavaram, India.	31st August-2017

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Best teacher award	Bapatla Engineering College, Bapatla	2019
2	BOS Member	PACE Institute of Technology and Sciences, Ongole	2023

Details of project proposals submitted/sanctioned/completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration
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Consultancy contribution

S.No.	Year	Amount	Details
1	--	--	--

Student Project/research guidance

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

Administrative experience

S.No.	Role	Duration (From – to)
1	Timetable & Result Analysis In-charge	2014-16
2	Website coordinator	2015-16, 2025-till date
3	Examination officer	2016-19 & 2023-24
4	Class Coordinator ¼ B Tech ECE-A	2018-19 to 2020-21
5	Discipline committee member	2019-till date
6	BOS member	2014- till date
7	MOOCS coordinator	2019-20 to 2022-23
8	Canteen In charge	2022-till date
9	BCAP Coordinator	2022-23
10	Class Coordinator ¼ B Tech CSE-A	2023-2024
11	Class mentor ¼ B Tech CSE-B	2025-26
12	IQAC member	2024- till date

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com/citations?hl=en&user=zaKbyZ0AAAAJ
SCOPUS	https://www.scopus.com/authid/detail.uri?authorId=57191622391
Web of Science	HHT-0966-2022
Vidwan ID	https://vidwan.inflibnet.ac.in/profile/47692

Any other relevant information

1. Life Member in “International Society for Research and Development” (ISRD), 8A Kapteinsvigein, LONDON, UNITED KINGDOM (Membership ID: M4150902469)
2. Member in “Science Research Association” SCIREA Journal of Chemistry
3. Member in “International Journal of Latest Engineering Science” (Membership ID: IJLES-201836)
4. Reviewer in Journal of Emerging Technologies and Innovative Research (JETIR)

(Dr. S. Mohan)
(20-8-2026)