SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
(Deemed to be University u/s 3 of UGC Act, 1956)

Dr. KRISHNA MURTHY POTLA

Designation : Assistant Professor
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Contact at : S&H-I,Department of Chemistry,
Siddhartha Academy of Higher Education
(Deemed To Be University)
Kanuru, Vijayawada, Andhra Pradesh 520007.

Education

Ph. D (Analytical Chemistry)
2014, SRI VENKATESWARA UNIVERSITY, Tirupati.

M.Sc (Analytical Chemistry)
2009, SRI VENKATESWARA UNIVERSITY, Tirupati.

B.Sc (Computer Science and Engineering)
2006, Acharya Nagarjuna University, Guntur.

Experience

Period	Designation	Institution / Organization	Key Responsibilities
2022- Till date	Assistant Professor	Siddhartha Academy of Higher Education (Deemed To Be University), Vijayawada.	Teaching, Research publications, Funding projects, Counselling
2015-2022	Assistant Professor	Bapatla Engineering College (Autonomous), Bapatla.	Teaching & Research
2014-2015	Research Chemist	TCG Life Sciences PVT LTD, Kolkata.	

Research Interests

Broad Area of Research:

Crystal Engineering , Machine Learning, Computational studies.

Honors and Awards

- Recipient of TARE fellowship from Science and Engineering Research Board, Govt. of India, India.
- Recipient of Young Scientist Award in 2020 from Andhra Pradesh Akademi of Sciences, A.P., India.
- Honour as associate fellow in 2020 from Andhra Pradesh Akademi of Sciences, A.P., India.
- Member of American Chemical Society.
- Associate member of Royal Society of Chemistry.
- Qualified in State Eligibility Test in 2012 conducted by Govt. of Andhra Pradesh.

Courses Taught

S.No	Course Name	Level (UG/PG)
1	Engineering Chemistry	UG

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.com/citations?user=_FNv_U4AAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57189640271
ORCID	https://orcid.org/0000-0002-5600-1489
dblp	-
Publons	-
Research Gate	https://www.researchgate.net/profile/Krishna-Potla
LinkedIn	https://www.linkedin.com/in/krishna-potla-750b37112/

Recognized Research Supervisor

S.No.	Department	University
01.	Chemistry	Siddhartha Academy of Higher Education (Deemed to be University), Vijayawada

Funded Research Projects

S. No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
01.	Funded	Design and synthesis of cocrystals/salts of anticancer drugs to improve physicochemical and pharmacokinetic properties: crystal engineering approach	Completed	SERB (ANRF)	18,30,000/-	3 Years
02	Funded	Scaffolds, library synthesis of [4.5/5.6] novel anticancer spiro compounds: a study of theoretical, docking and crystallography applications.	Completed	UGC	1,60,000/-	2 Years
3.	Funded	Effective treatment of neurological disorders through enhancing blood-brain permeability: a joint machine learning and crystal engineering approach.	On-Going	AICTE	2,00,000/-	2 Years
4.	Funded	Accelerating Cocrystal Discovery and Prediction Using Machine Learning.	On-Going	Industry	1,10,000/-	18 months
5.	Funded	Development of an Improved Industrial Process for the Manufacture of Diclofenamide	Applied	MSME IDEA HACKATHON 5.0	15,00,000/-	1 year
6.	Funded	Cocrystal Prediction in Drug Design and Development Using Interpretable AI	Applied	ANRF	25,00,000/-	5 Years

Administrative Roles

S. No.	Role	Institution	Duration	Responsibilities
1	R&D Departmental Coordinator	SAHE	2022-Present	R&D

Certifications/MOOC Courses Completed

S.No.	Title	Platform	Duration	Year
-	-	-	-	-

Consultancy / Industry Projects

Completed	00
On-going	02
Applied	02

Patents

S.No	Title	Status	Application No.	Year
1.	Computer-aided molecular docking, physicochemical and ADMET properties of novel bromopyrimidine analogues as potential anti-cancer agents.	Granted	2021106703	2021
2.	Computer-aided drug design and green synthesis of novel pyrazole analogues as potential sars-cov-2 main protease inhibitors against anti-covid-19 protein targets.	Granted	2021106444	2021
3.	In silico screening, physicochemical and pharmacokinetic analysis of novel sulfonamides as potential antimicrobial drugs docked with protein targets: PDB: 2VF5, 1KZN and 1JIJ	Granted	2021105099	2021
4.	In silico evaluation and synthesis of novel sulfonamides as promising anti-viral drugs docked against anti-COVID-19 protein targets: SARS-CoV-2 main protease	Granted	2021105627	2021
5.	Green Synthesis, computer aided drug design, physicochemical, and ADMET properties of novel sulphonamides as potential antimicrobial drugs	Granted	WO 2022/180443 A1	2022

Ph.D

Awarded	00
Guiding	01

Invited Talks

No. of Invited Talks	02

Professional Service / Reviewer

- ★ Reviewer for ACS OMEGA.
- ★ International Journal of Quantum Chemistry
- ★ Reviewer for Journal of Molecular Liquids.
- ★ Reviewer for Journal of Non-Crystalline solids Elsevier.
- ★ Reviewer for Journal of Molecular Structure
- ★ Reviewer for ChemistrySelect, Wiley Online Library.
- ★ Reviewer for Crystal Research & Technology
- ★ Reviewer for Colombian Journal of Chemistry.
- ★ Reviewer for ActaChimicaSlovenica.

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	2
International / National Level Seminars	3
International / National Level Conferences	-
Workshops	1
Instructor Led / Self-Paced Courses	-
Webinars	-

Professional Bodies Membership Details

S.No.	Membership No.	Society Name
1.	31976875	Member of American Chemical Society, USA.
2.	671998	Member of Royal Society of Chemistry, London.
3.	-	Associate member of Andhra Pradesh Akademi of Sciences, Amaravathi.

Date: 09-09-2025 **(Dr. Krishna Murthy Potla)**

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