

## Profile

<b>Name of the Faculty</b>	Dr. K.Shashikala	
<b>Designation</b>	Professor	
<b>Department</b>	Freshman Engineering	
<b>Area of Interest</b>	Synthetic Organic Chemistry, Materials chemistry	
<b>Subjects Taught</b>	Engineering Chemistry, Environmental Science	
<b>JNTUH Registration Id</b>	54150402-101940	
<b>College Staff Code</b>	SC0162	
<b>Official Mail</b>	Shashi.fe@gcet.edu.in ,	

### Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	Ph.D.	Organic Synthesis	JNTUH	2018
2	M.Sc.	Physical Chemistry	Andhra University	1994
3	B.Sc.	Maths, Physics, Chemistry	Kakatiya University	1992

### Research Publications:

1	Synthesis of 2-cyclopropyl-3-(5-aryl-1H-pyrazol-3-yl)-1,8-naphthyridine and derivatives; Mallaiah Bucha, Giri Tharikoppula, T hirimala Chary Mariganti and <b>Shashikala Kethireddy</b> . <i>Organic and Medicinal Chemistry Letters</i> 2014, <b>4</b> :16; ISSN 21912858
2	Synthesis and Antibacterial Activity of Novel 5,6, 7,8-tetrahydroimidazo[1,2-a]pyrimidine-2-carbohydrazide Derivatives; <b>Shashikala K</b> , Thirumala Chary M and Laxminarayana E; <i>Chemistry Central Journal</i> , 2015, <b>9</b> :51; ISSN: 1752-153.
3	Synthesis and antibacterial activity of novel Imidazo[1,2-a]pyrimidin-2-yl)methylene)benzo hydrazides; <b>Shashikala K</b> , Thirumala Chary M and Laxminarayana E; <i>Indian Journal of Heterocyclic Chemistry</i> , 2015, 25 (4), 119; ISSN: 2456-4311 Print ISSN: 0971-1627.
4	A new facile and efficient synthesis of 2-((5-aryl -1,3,4-oxadiazol-2-yl) methoxy) -3-methyl quinoxaline and 3-methylquinoxalin-2-yl-2-(5-aryl-2Htetrazol-2-yl)acetate derivatives. <b>Shashikala Kethireddy</b> , Hemalatha Kotakommula, Laxminarayana Eppakayala and Thirumala Chary Mariganti, <i>European Journal of Chemistry</i> 8 (2) (2017) 125-129; ISSN 2153-2249
5	Conventional and Microwave assisted synthesis of quinoxaline carboxamide derivatives; <b>K. Shashikala</b> , E. Laxminarayana and M. Thirumala Chary <i>Asian Journal of Chemistry</i> 29 (11), 2017, 2463

6	A Facile Synthesis of N'-Arylidene-2-((7-bromo-2-methylpyrido[2,3-b]pyrazin-3yl)oxy) acetohydrazides; Hemalatha Kotakommula, <b>Shashikala Kethireddy</b> , Laxminarayana Eppakayala, Thirumala Chary Mariganti; Der Pharma Chemica, 2018, 10(2): 114-117; ISSN 0975-413X
7	Microwave Assisted Synthesis of 3-Chloro-N-(2-(5-chloro-1-tosyl-1H-benzo [d] Imidazol-2-yl) ethyl)-N-Substituted Quinoxalin-2-Amine Derivatives Using DCQX <b>K.Shashikala</b> , E.Laxminarayana, M. Ramesh, M.Thirumala Chary <i>Organic Chemistry Plus</i> 1 (2), 2020, 39; ISSN: 2717-5960 (Print) 2717-5979 (Online)
8	FeF <sub>3</sub> mediated synthesis of 3,4-Dihydro-3-pyridyl-2H-Naphtha[2,1-E][1,3]oxazine derivatives; <b>Shashikala K</b> , Praveena D, Ramesh M and <b>Laxminarayana E</b> , <i>Heterocyclic Letters</i> 11(1), 59-62 2021; ISSN : (print) 2231–3087 / (online) 2230-9632
9	An efficient Synthesis of Novel Anti influenza Viral and Cytotoxic Derivatives of 4-oxothiazolidin-3-yl)-3-hydroxyquinoxaline-2-carboxamide: <b>Shashikala Kethireddy</b> , Thirumala Chary Mariganti, Srilalitha Sapram, AIP proceedings, 2021, 327.
10	Synthesis, Biological Evaluation and Docking studies of 1,2,4-Oxadiazole Linked 5-Fluorouracil Derivatives as Anticancer Agents Ravi Kumar B, <b>Shashikala K</b> , Rajeshwar Reddy G and Laxminarayana E <i>BMC Chemistry</i> <b>15</b> , 30 (2021) <a href="https://doi.org/10.1186/s13065-021-00757-y">https://doi.org/10.1186/s13065-021-00757-y</a>
11	Microwave assisted synthesis of Thieno(3,2-d) pyrimidine amino derivatives and their molecular docking studies;T.Giri, <b>K. Shashikala</b> , D. Ramesh M. Siddhartha and E. Laxminarayana;Indian Journal of Heterocyclic Chemistry, 2021, 31 (03), 397-404
12	Anti bacterial and anticancer activities of quinoxaline-2-carbohydrazideN-oxide compounds, Swarupa Ketha, <b>Shashikala Kethireddy</b> , Sudhakar Chithaluri, Laxminarayana Eppakayala, Materials today proceedings, 49(2022), 1804-1809.
13	Synergetic synthesis of (4-((E)-but-1-en-3-ynyl)-1-methyl-1H-indol-3-yl)0-tert-Butyl dimethyl silyl hydroxy methane , Ravi Kumar B, Kishore Kumar, M. Srinivas Reddy, <b>Shashikala K</b> and Laxminarayana E, Russian Journal of Chemistry, November 2021 (Accepted for publication)
14	Anti – cancer docking investigations of Quinoxaline phenyl thiazolidinones, <b>Kethireddy, Shashikala</b> , Ketha Swaroopa, Eppakayala Laxminarayana, Chinthaluri Sudhakar, Vietnam Journal of Chemistry, November 2021; ISSN:2572-8288 60(3), 346-353.
15	Synthesis and molecular docking studies of new aryl isoxazoles embodying chromenone, Bhargavi Lakshmi Jadimenu, <b>Shashikala Kethireddy</b> , Murali Malleli Laxminarayana Eppakayala, Materials today proceedings, March 2022; Ref. No. MATPR-D-2-01147
16	Environmentally Benign Synthesis of 2,3,7-Substituted 1,8-Naphthyridines Devoid of Catalyst; Materials today proceedings; July 2022;Volume 80, Part 2, 2023, Pages 681-684.
17	Development of methodologies for synthesis of 4-hydroxy-[1,5] naphthyridine-3-carbonitriles; Materials today proceedings; April 2023; <a href="https://doi.org/10.1016/j.matpr.2023.03.598">https://doi.org/10.1016/j.matpr.2023.03.598</a> .

18	Synthesis and in-silico studies of 4-(5-(2-(4-(5-aryl-1,2,4-thiadiazol-3-yl)phenyl)-1H-imidazol-4-yl)-1,3,4-thiadiazol-2-yl)pyridines; <b>Kethireddy S.</b> ;Eppakayala L.;Banu Syeda A., Results in chemistry; Dec 2023; <a href="#">Volume 7</a> , January 2024, 101303; <a href="https://doi.org/10.1016/j.rechem.2023.101303">https://doi.org/10.1016/j.rechem.2023.101303</a>
19	Highly Efficient Synthesis of 1,3,5-Oxadiazinan-4-one and 5-Methyl-1,3,5-triazinan-2-one Derivatives of Benzimidazolyl Pyrimidine and Their Activity Analysis through Docking Studies; Patolla S.;Kethireddy S.;Pittala B.;Eppakayala L.;Bireddy S.R.; Russian Journal of Organic Chemistry, <b>Volume 60, Year 2024, Pages 2446-2453.</b>
20	An efficient copper catalysed synthesis of 2-methoxy-3-(1H-1,2,3-Triazol-1-yl) Methyl) Quinoxalines under click conditions; <b>S.Kethireddy</b> ; Heterocyclic letters; Jan 2024; ISSN: 2231-3087; <a href="http://heteroletters.org">http://heteroletters.org</a>
21	Isolation, Characterization of Bioactive Compounds from Muntingia Calabura – A Pharmacological Study; Marupati S.; <b>Kethireddy S.</b> ;Eppakayala L.Pharmaceutical Chemistry Journal; March, 2024; Volume 57, pages 1941–1949.
22	Synthesis and docking studies of 1,3,4-oxadiazole, keto pyrazole, pyrrole and lactam derivatives of Thieno pyrimidines as EGFR tyrosine kinase inhibitors; Tharikoppula G.; <b>Kethireddy S.</b> ;Bairi S.;Malleli M.;Eppakayala L. South African Journal of Chemistry; Apr-24; ISSN 0379-4350, vol.78 ; <a href="http://dx.doi.org/10.17159/0379-4350/2024/v78a17">http://dx.doi.org/10.17159/0379-4350/2024/v78a17</a>
23	Synergetic and One-Pot Synthesis Of 2-Hydaziny 1,3-Thiaziny 2h- Chromen-2-One Derivatives; <b>K.Shashikala</b> ; Heterocyclic letters; May-24;14: issue.-2 (2024), 235-241
24	New chalcone incorporated structurally modified pyridine-pyrimidine derivatives as anticancer agents: Their design, synthesis, and in-vitro evaluation; Chemistry and Biodiversity ; August 2024 <a href="https://doi.org/10.1002/cbdv.202401122">https://doi.org/10.1002/cbdv.202401122</a>
25	A Mild and Efficient Copper Catalyzed Synthesis of 1,2,3-Triazolo Quinoxalines under Click Conditions; Bommera R.K.;Eppakayala L.; <b>Kethireddy S.</b> ;Vudari B.;Syeda A.B.Russian Journal of Organic Chemistry 2024; ISSN 1070-4280, Vol. 60, No. 7, pp. 1–3.
26	Design, synthesis, in silico ADME, toxicity prediction, molecular docking studies of 1,2,4-oxadiazole incorporated indolizine-thiadiazole derivatives and their biological evaluation as anticancer Agents; Swarupa Ketha, <b>Shashikala Kethireddy</b> , Sudhakar Chithaluria*, , Laxminarayana Eppakayala, Yahya I. Asirid; May-25; <a href="http://dx.doi.org/10.1016/j.tet.2025.134709">http://dx.doi.org/10.1016/j.tet.2025.134709</a>

**Books/Book Chapters Published:**

<b>S. No.</b>	<b>Publication details</b>
1	“A Text-book of Engineering Chemistry” with ISBN 9789390394333, Pearson publishers.
2	“ Strategies in synthesis of N-heterocyclic compounds” with ISBN : 979-8885305372, Notion press.

**Experience:**

<b>Teaching</b>	20 Years
<b>Industry</b>	-
<b>Research</b>	13 Years
<b>Total Experience</b>	20 Years