

1 Name of Faculty Dr. S. SHYLAJA  
 2 Designation Assistant Professor  
 3 Nature of Job/Appointment Regular  
 4 Date of Joining 09-01-2006(Adhoc)  
 02-07-2007(Regular)  
 5 E-mail sshylaja\_biotech@cbit.ac.in



6	Education Qualifications	Name of the Degree	Class
	Ph. D	Doctor of Philosophy (Chemistry)	Awarded
	PG	M.Sc.	First
	UG	B. Sc. (BZC)	Second

7 **Work Experience**

Teaching	25 Years
Research	06 years
Industry	One month (Under Training)
Others	--

8 Area of Specialization Organic Chemistry

9 Professional Memberships --

10 Responsibilities held at Institution Level

1. Memberin Shurithi Committee (Annual day of CBIT)
2. Member in Sudhee Committee (Student Technical Fest)
3. As a mentor participating actively in the Induction programme for 1st year students
4. Member in Women Development Cell

11 Responsibilities held at Department Level

1. Member Board of Studies (In the department of Chemistry)
2. Course Co-Ordinator of Chemistry Subject
3. NBA-Coordinator of chemistry department
4. Course file auditor of Chemistry department
5. Time table in-charge in chemistry department
6. Faculty In-charge of I yr. students
7. Anti-Ragging duties
8. Squad duties under campus discipline

12 Research Guidance --

13 Awards Received --

14 Courses Handled at Under Graduate / Post Graduate Level. Engineering Chemistry, Applied Chemistry, General Chemistry, IPA-Chemistry, Organic Chemistry, Inorganic Chemistry and Bio-Organic Chemistry.

15 No. of Papers Published National Journals – 10 International Journals – 14

National Conference – 02 International Conference – 04

16 Projects Carried out --

17 Patents --

18 Technology Transfer --

19 Invited Speaker Delivered Lectures in the subject, "Chemistry and Pharmaceutical Analysis" as a resource person for the employees of Dr. Reddy's Laboratories Ltd Hyderabad during 2013 to 2015 for Two Executive and Three SMT batches during 2013 to 2015 for the training program on "Certificate in Pharma Technology".

20 No. of Books/Chapter Published with details --

21 Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (Attended and/or Organized).

**Faculty Development Programs attended**

1. Attended 5 Days Online STTP on "Recent Advancements in Medicinal Chemistry and Material Science" (RAMCMS-2023), from 24<sup>th</sup> April to 28<sup>th</sup> April, 2023, organized by Vardhaman College of Engineering, Hyderabad.

2. Participated in AICTE recognized Short Term Course on "2D Nanomaterials: Potential & Applications" through ICT conducted by Applied Science Department from 17.10.2022 to 21.10.2022 (One Week)
3. Attended One Week Online Faculty Development Program on "Role of Chemistry in Advanced Engineering Materials (RCAEM-2022)" from 10th to 15th October, 2022 organized by the Department of Chemistry, Vasavi College of Engineering (A), Hyderabad.
4. Participated in One Week Faculty Development Programme on Research Methodology and Data Analysis in Business Management organized by Department of Commerce and Business Management, Krishna University from 25-08-2022 to 01-09-2022.
5. Participated in the Two day Virtual National Seminar Organized by Department of Business Management & IQAC held on 29th and 30th July 2022.
6. Attended a Webinar on "Net Zero Carbon Emission Sustainable Pathways" organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram Campus, Chennai -89 on 04.06.2022.
7. Attended one week FDP on "ICT Tools for Effective Teaching Learning", from 23<sup>rd</sup> May to 28<sup>th</sup> May 2022, organized by Amar seva mandal's Kamala Nehru Mahavidhyalaya, Nagpur, Maharastra.
8. Attended one week International FDP on "Research Methodology" from 2<sup>nd</sup> to 7<sup>th</sup> May 2022, organized by Amar seva mandal's Kamala Nehru Mahavidhyalaya, Nagpur, Maharastra.
9. Successfully completed swayam online course "Accreditation for undergraduate engineering programmes" 8 Weeks course.
10. Attended FDP on "Role of Chemistry in Advanced Engineering Materials (RCAEM-2021)", organized by the Department of Chemistry, Vasavi College of Engineering (A), Hyderabad, from from 25th - 29th October, 2021
11. Attended FDP on "Innovative Practices In Chemical Sciences", Organized by Department of Chemistry in collaboration with Sarojini Naidu Vanitha Mahavidyalaya, Hyderabad, from from 23 - 28 September 2021
12. Attended One Week Online FDP on Materials for Photonic Applications-MPA2021, Organised by Dept.of Physics & Chemistry, MGIT, Hyderabad, from 9th to 13th August 2021.
13. Attended International Workshop on Stress & Coping: Strategies to De-Stress, Organized by Women Empowerment Cell, GITAM (Deemed to be University), Visakhapatnam, AP, India on 12th & 13th June 2021
14. Attended FDP on "IPR & Patent Prosecution" MVSREC, Hyderabad from 24th May to 28th May 2021
15. As a Coordinator Organized One Week Online FDP on "Recent Trends in Advanced Materials Science and Engineering Technology" at CBIT, from 8th -12th March, 2021.
16. Attended International webinar on Empowering women: A paradigmm shift in nep 2020, MGIT, Hyd, from 8th to 9th January, 2021
17. Attended ATAL-FDP One-week online ATAL FDP on "Molecular Manufacturing" organized by CBIT, from 19th - 23rd Oct.2020
18. Successfully Completed STTP "Assessment and Evaluation of Student's Performance" by NITTTR-

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- KOLKATA from 21st to 25th Sep 2020
19. Attended One Week Online FDP on "Student Induction and Universal Human Values" organized by Department of Physics, CBIT from 26th to 30th Aug 2020
  20. Attended FDP One week online National FDP on "Unlockdown 3.0: A period of reorienting the Teaching & Learning" from 17th to 23rd Aug 2020
  21. Successfully Completed One Week Online International FDP on "Latest trends in engineering, science and technology: nanomaterials" from 10th to 15th Aug 2020
  22. Successfully Completed One Week Online FDP on "Recent developments in chemical research for societal applications" from 3rd to 8th Aug 2020
  23. Successfully Completed One Week Online FDP on "Engineering Physics and Materials Science" at CBIT, from 3rd to 7th Aug 2020.
  24. Attended Two day international webinar on "EMPOWERING WOMEN: A PARADIGM SHIFT IN NEP 2020 from 8th to 9th Jan.2021
  25. Successfully Completed The science of Success: What Researchers know that you should know, an online non-credit course authorized by University of Michigan offered through Coursera, received certificate on 26th July, 2020
  26. Attended Three-day International virtual conference on impact of chemical disasters on biota, organised by Andhra University, Visakhapatnam and Andhra Pradesh Akademi of Sciences from 24th to 26th July 2020.
  27. Attended FDP on 'Tools for online teaching, learning & evaluation' from 20th -24th July 2020.
  28. Attended Webinar on "Employability post covid Era:Expectations of Industry Vs Education systems preparedness" Organised by Assocham, India, on 07-11-2020
  29. Aattended Webinar, 'In Sync with Industry,' with Dr. Madhuri Dubey – Founder, National Skills Network – NSN on 07-07-2020
  30. Attended one-week Refresher course on "Bharateeya Chaitanyam" at CBIT during 29-06-2020 to 05-07-2020.
  31. A Two-Day National Level Virtual Workshop on "The Role of Chemistry in Modern Healthcare" Organized by Department of Physics and Chemistry, Mahatma Gandhi Institute of Technology, Hyderabad during 03-07-2020 to 04-07-2020
  32. Successfully Completed One Week Online FDP on "Materials: Recent Trends & Engineering Applications" at Gokaraju & Rangaraju Institute of Engineering & Technology, Hyderabad during 02 - 07 June 2020
  33. Successfully Completed Faculty Development Program on "Outcome based Education and NBA-accreditation process (UG)" at CBIT during 28-05-2020 to 01-06-2020
  34. Successfully Completed "Introduction to Psychology" an online non-credit course authorized by Yale University and offered through Coursera on 01-06-2020
  35. A-5 days hands on workshop on "Patent searching, drafting and filing" (online mode) during 29-05-2020 to 02-06-2020 In Association with Turnip Innovations and Exilyze Intellectual Services, IEEE computer society & computer society of India
  36. Successfully Completed "Organic Solar Cells - Theory and Practice" an online non-credit course authorized by Technical University of Denmark (DTU) and offered



- through Coursera on 26-05-2020
37. Successfully Completed "Introduction to Molecular Spectroscopy" an online non-credit course authorized by University of Manchester and offered through Coursera on 19-05-2020
  38. Successfully Completed "Advanced Chemistry" an online non-credit course authorized by University of Kentucky and offered through Coursera on 18-05-2020
  39. Attended the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work. 'Effective and Efficient Online Teaching in the Age of Corona, A Hands-on Workshop' organized by the Teaching Learning Centre (ICT) at IIT Bombay on 16-05-2020
  40. one-week online Faculty Development Program on "Outcome Based Education: A Step towards Excellence" from 11-05-2020 to 15-05-2020 under Margdarshan Scheme of AICTE, New Delhi.
  41. Successfully completed STTP through ICT mode on NBA Accreditation, 22-04-2019 to 26-04-2019 (One Week) sponsored by National Institute of Technical Teachers Training and Research, Kolkata, organized by Chaithanya Bharathi Institute of Technology.
  42. A 5-day "Faculty training Programme (Workshop on Induction programme)" launched by AICTE at JNTU Hyderabad during 27-06-2017 to 01-08-2017.

## 22 Details of Journal Publications/ Conferences (National and International)

### National Journals from the Year 2017

1. K Durga Malleswar, B Venugopala Rao, K Venkateswara Rao and S Shylaja (2019) "A Validated chiral HPLC method for the enantiomeric purity of Trelagliptin", Indo American Journal of Pharmaceutical Research, Volume 9, Issue 11 pp 582-587.
2. K Durga Malleswar, B Venugopala Rao and S Shylaja, (2019) "A Validated chiral HPLC method for the enantiomeric purity of Anagliptin", Indo American Journal of Pharmaceutical Research, Volume 9, Issue 7 pp 3096-3101.
3. K Ramesh, S Shylaja, S Ramgopal, A Sambasiva Rao and KC Rajanna (2019) "Polyethylene glycol Supported Metal Nitrates as Well-Organized Reagents for Hunsdiecker Conversion of  $\alpha,\beta$ -Unsaturated Acids to  $\beta$ -Nitrostyrenes under Solvent and Acid-Free Conditions", Asian Journal of Chemistry, Volume 31, Issue 8 pp 798-800.

### International Journals from the Year 2017

4. Sangeetha Povari, Shadab Alam, Shylaja Somannagari, Lingaiah Nakka, and Sumana Chenna (2023) "Oxidative Dehydrogenation of Ethane with  $\text{CO}_2$  over the Fe-Co/  $\text{Al}_2\text{O}_3$  Catalyst: Experimental Data Assisted AI Models for Prediction of Ethylene Yield" Journal of Industrial & Engineering Chemistry Research, <https://doi.org/10.1021/acs.iecr.2c04002>
5. S. Shylaja, (2021), "Catalytic Oxidation of Certain Xanthine Alkaloid Compounds under Conventional and Non-Conventional Conditions", *Journal of Science and Technology, ISSN: 2456-5660 Volume 6, Issue 3, May-June 2021.*
6. Rajitha Nampally, Shylaja Somannagari, Chinna Rajanna Kamatala, \*, Yadagiri Bhongiri, Umesh Kumar Utkoor (2020), "Micellar effects on the kinetics and mechanism of ceric ammonium nitrate oxidation of bicyclic monoterpenes under acid free conditions" International Journal of Chemical Data Collections, Vol.31, doi:<https://doi.org/10.1016/j.cdc.2020.100645>.
7. N Rajitha, S Shylaja, KC Rajanna, and B Yadagiri (2018) "Polyethylene Glycols as Efficient Catalysts for the Oxidation of Bicyclic Monoterpenes by Ceric Ammonium Nitrate in Acetonitrile under Acid-Free Conditions: Kinetic and Mechanistic Approach", International Journal of Chemical Kinetics, Volume 50, Issue 6 pp 383-396.

### National Conference

8. S. Shylaja has presented a paper titled "Oxidation of Biomolecules in the Presence of Polyethylene Glycols under Conventional and Non-Conventional Conditions" in a National Conference on "Recent Advances in Green & Sustainable Chemical Sciences" organized by Department of Chemistry, St

Pious X Degree & PG College for Women, Hyderabad held on 20-21 January,2023

9. K Ramesh, S Shylaja and KC Rajanna (2018) "Poly (ethylene glycol) Supported Metal Nitrates for nitro decarboxylation of  $\alpha$ ,  $\beta$ -Unsaturated carboxylic Acids under Solvent free Conditions", National seminar RTMREA-2018,pp 9.

#### International Conferences:

10. Dr.S.Shylaja has presented a paper "Micelle mediated - Kinetic study of Oxidation of Xanthine Derivatives by Ru(III) in Acetonitrile" at International conference on Advances in science, Engineering & Technology (ICASET-2021) KSRM College of Engineering, Kadapa, Andhra Pradesh, from 21st to 22nd May-2021.
11. Dr.S.Shylaja has presented a paper "Oxidation of Xanthine Derivatives in the presence of Micelle forming surfactants by Ceric Ammonium Nitrate in Acetonitrile – A Kinetic study" at International Virtual Conference on Materials and Nanotechnology (IVCMN-2021) , Guru Nanak College of Science, Ballarpur, Maharastra , from April 29-30, 2021.
12. Dr.S.Shylaja has presented a paper(**earned Best Oral Presentation Award**) "Catalytic activity of polyethylene glycols on oxidation of biomolecules under conventional and non conventional conditions" at Sixth International Conference on Advances in Materials Science (Online), Raje Ramrao Mahavidyalaya, Jath, Maharastra, from 23rd – 24 th April 20 21 (ICAMS - 20 21).
13. Dr.S.Shylaja has presented a paper (**earned Best Oral Presentation Award**) on "Micelles as efficient catalysts for the oxidation of xanthine alkaloids under conventional and non conventional conditions" at International conference on Advances in science & Technology, Tiruvannamalai,Tamilnadu, from 2nd to 3rd April,2021.

