

Kings College of Engineering
Department of Science and Humanities

Dr.S.UDAYAKUMAR	
Designation:	Associate Professor
Qualification:	M.Sc., MPhil., Ph.D.,
Area of Specialization:	Chemistry
Experience:	Teaching: 23 years 6 Months
No. of workshop / Conferences / FDP / ATAL/ NITTR attended :	Workshop: 06
	Conference: National : 09
	International: 21
	FDP: 09
	STTP: 04
	ATAL: 07
	NITTR: 04
Publication :	6
Membership :	Life member in Indian Society for Technical Education (ISTE), New Delhi (LM 57947)
Achievements :	1. Received Best Teacher award, certificates for more than 90% results, appreciation for conducting Events. 2. Received Best YRC Club Award in the academic Year 2013-14.

Workshop / Conferences / FDP attended: 6 / 30 / 16

WORKSHOP: (06)

1. TEQIP II sponsored two days lecture workshop on chemistry for sustainable green environment on 11 & 12, 2016 conducted by department of chemistry, BIT campus Anna university Trichy.
2. A National level workshop on Advances in chemical Sciences on 18th July, 2016 at Sri Sai Ram institute of Technology, Chennai.
3. A National level workshop on Revealing Advances in Material Sciences on 18th July, 2016 at Sri Sai Ram institute of Technology, Chennai.
4. One day Sensitization workshop on National Technical Teachers Training on 24.02.2020 by NIITR – Chennai at Sri Krishna College of Technology, Coimbatore.
5. One Day Workshop on Patent Writing organized by CSIR-CECRI, Karaikudi on 27.07.2023.
6. Workshop on how do I bring real world in to class room organized by British Council held on 19.07.2023.

CONFERENCES: (30)

1. International seminar on Galloping Indian services towards global standards, Nov 2006, Muthayammal Engineering College, Rasipuram.
2. UGC sponsored National Seminar on Emerging Trends in Chemistry, Feb 2007, A.V.C. College, Mayiladuthurai.
3. National Conference on Frontiers of Chemistry, Jan 2008, SRM University, Kattankulathur.
4. Tamilnadu State Council for Higher Education sponsored State Level Seminar on Recent Advances in Chemistry, March 2009, Periyar E.V.R. College, Trichy.
5. International Conference on Recent Advances in Biomaterials, Dec 2010, Saveetha University, Chennai.
6. National Seminar on Societal Implication of Nanoscience and Technology, Dec 2010, Anna University of Technology, Tiruchirapalli.

7. CSIR and BRNS sponsored National Conference on Recent Applications of Nanomaterial in Chemistry and environmental research, July 2012, Kongu Engineering College, Erode.
8. National conference on Recent advances in chemistry on 7th august 2015 conducted by E.R.K Arts and Science College Erumiyampatti.
9. National conference on Chemistry of Heterogeneous Emerging Materials on 19th august 2016 conducted by E.R.K Arts and Science College Erumiyampatti.
10. TEQIP II sponsored two days National Conference Research Advances in Materials Science and Applications on 19 & 20, 2016 conducted by department of chemistry, BIT campus Anna university Trichy.
11. DST-SERB sponsored International Conferences on innovations in Science, Engineering and Technology for sustainable Development on 30 & 31 March, 2018 at Muthayammal Engineering College, Rasipuram.
12. A National level conference on Recent Advances in Chemical Sciences on 28th Oct, 2017 at Sri Ramakrishna institute of Technology, Coimbatore.
13. National seminar on Modern Trends in Chemistry on 20.12.17 at Sengamala thayaar Educational Trust Women's College, Mannargudi.
14. One day National Seminar on Recent Trends in Smart Materials (NSSM-2018) organized by Kings College of Engineering on 17.02.2018.
15. One day National Seminar on Recent Trends in Smart Materials (NSSM-2019) organized by Kings College of Engineering on 29.03.2019.
16. One Day seminar on Solar Cell For Carbon dioxide Emission Free Environment on 21.01.19 at E.G.S Pillay Engineering College, Nagapattinam.
17. International Conference on Recent Applications in Advanced Materials on 11 & 12th July 2019 organized by ERK Arts and Science College, Dharmapuri. .
18. A National level conference on Emerging trends in chemistry on 02.08.19 at jeppiaar SRR Engineering College, Chennai.
19. International Conference on Emerging Trends & Innovations in Chemistry (ETIC-209) on 20th August 2019.
20. National Conference on chemical environment energy and engineering research (NCCEEER-2021) on 17.12.2021 by Arasu Engineering College Kumbakonam.

21. CSIR Sponsored National Conference on Chemical, Environment, energy and Engineering Research organized by Arasu Engineering College, Kumbakonam on 17.12.2021.
22. A Two day International Conference on "Current Trends in Advanced Functional Materials" organized by Saranathan College of Engineering on 28th & 27th September 2023.
23. One day seminar entitled " The Fascinating World of Chemical Bonds" on 20.09.2023 by Annai Velankanni Arts and Science College, Thanjavur.
24. National Conference on Recent Trends in Smart Materials (NCRTSM – 2023) organized by Kings College of Engineering on 06.10.2023.
25. International Conference on "Molecular Basics of Cancer and Prevention " organized by Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur on 07-02-2024 to 08-02-2024.
26. International Conference on Recent Advancement and Multidisciplinary in Science and Humanities(ICMRSH-2023) organized by SNS College of Technology, Coimbatore on 23.02.24.
27. International Conference on "Recent Trends in Engineering, & Science (ICRTES-2024) organized by CPR, Kings College of Engineering on 02-05-2024 to 03-05-2024.
28. One day seminar entitled " Developing Entrepreneurial Mindset Among Chemist" organized by Annai Velankanni College of Arts and Science on 29.08.24.
29. One day international Conference on Recent Trends in Chemistry and Energy Science (RTCES-2024) on 13.09.2024 organized by Saraswathi Narayan College, Madurai.
30. One day seminar entitled " Computational Tools for Smarter Molecular Design in Drug Delivery" organized by Annai Velankanni College of Arts and Science on 23.07.25.

ATAL FDP: (02)

1. Attended AICTE Training And Learning Academy **(ATAL)** Faculty Development Programme on "The Digital: Innovation in Neurodegenerative Disorder Diagnostics" organized by SASTRA Deemed University, Thanjavur" during 16th – 21th December, 2024.

2. Attended AICTE Training And Learning Academy **(ATAL)** Faculty Development Program on “Artificial intelligence for Science and Engineering” organized by National Institute of Technology Nagaland during 17th – 22th February, 2025.

NITTTR STTP: (04)

1. STTP through ICT mode on NBA Accreditation organized by NIITR Kolkata from 22.04.19 – 26.04.19.
2. Attended Short Term Training Programme through ICT Mode on “Drinking Water Purification Technologies” organized by NITTTR, Kolkata during 20th- 01st October, 2021.
3. Attended Short Term Training Programme through ICT Mode on NEP-2020” organized by NITTTR, Kolkata during 08th-12th August, 2022 .
4. Attended Short Term Training Programme on “NEP 2020” (ICT Mode) organized by NITTTR, Kolkata during 08th -12th September, 2022.

FDP (07)

1. One day faculty development Programme on FACT ENRICHGRAM- 2003 organized by Bharath College of Science and Management, Thanjavur on 02.03.2003.
2. A three day virtual FDP on ‘Emerging Trends in Chemistry’ from 13.12.2021 – 15.12.2021 at kongu Engineering College Erode.
3. SIX Days FDP on Advances in Analytical Techniques by SRM institute of science and technology, Ramapuram. from 25.07.22 – 30.07.22.
4. Five days FDP on Recent Trends in Chemical and Petrochemical industries from 21.11.22 – 25.11.22 in JCT College of Engineering and Technologies, Coimbatore.
5. Faculty development programme on Free/ libre open source software for Education in NAAC/ NBA Accreditation and NIRF Ranking organized by Spoken Tutorial, IIT Bombay’s Nodal Resource Centre Hindustan College of Arts and Science Coimbatore on 23.03.2023.
6. Faculty Development Programme on "Outcome Based Education" IQAC Cell, Kings College of Engineering on 27th August, 2024.
7. Attended Five days Faculty Development Programme on "Renewable and Non Renewable Energy Sources and their Impact on Current Energy Scenario" organized by Nehru Institute of Technology, Coimbatore during 27th- 3rd August , 2024.

PUBLICATIONS (04)

1. **S. Udayakumar**, V. Renuga, K. Kavitha Synthesis and characterization of Ni-doped ZnO by chemical precipitation method. International Journal of Recent Scientific Research, Vol. 3, Issue, 2, pp.118 - 122, February, 2012, 3.908 impact factor.
2. **S. Udayakumar**, V. Renuga, K. Kavitha Synthesis and characterization of cobalt doped ZnO by chemical precipitation method. In the Journal of Chemical and Pharmaceutical Research, Vol. 4 Issue 2, pp. 1271-1280 (2012)0.467 impact factor.
3. **S. Udayakumar**, K. Pandian, V. Renuga, Synthesis and Characterization of PVP protected Mn doped ZnO Nanoparticles by Chemical Precipitation Method, Journal of Modern Chemistry & Chemical Technology, Volume 3, Issue 2, August 2012, Pages 45-55. Impact Factor:6.069.
4. **S.Udayakumar**, K.Kavitha "Optical studies of Transition metal ion doped ZnO Nanorods" International Recent Research journal on Science and Technology Vol. (3) Issue 1, Jan 2017, Pages 14-21.

PATENT(02)

1. Title of Invention: "Efficient Room-Temperature Synthesis Of Ethyl Acetate Using Vanadium-Enhanced Phosphomolybdic Acid Catalyst Supported On $ZrO_2.TiO_2$ Mixed Oxide" Application number -202441001222.
2. Title of Invention: Pd-Loaded Bismuth Ferrite ($BiFeO_3$): A Perovskite for Acetone Gas Sensing and Photocatalytic Dye Degradation Patent file under process.

EVENTS ORGANISED

1. A Five day Short-term Training Programme on “Pedagogy of 21st Century” under ISTE STAFF CHAPTER was organized at Kings College of Engineering from 08.12.2014 to 12.12.2014.
2. National Conference on Recent Trends in Smart Materials (NCRTSM – 2014) on 17.04.2014.
3. National Conference on Recent Trends in Smart Materials (NCRTSM – 2015) on 20.02.2015.
4. National Conference on Recent Trends in Smart Materials (NCRTSM – 2018) on 17.02.2018.
5. National Seminar on Recent Trends in Smart Materials (NSSM – 2019) *29th March 2019.*
6. organized e-International Conference on Recent Trends in Smart Materials (ICRTSM – 2022) on 25th June, 2022.
7. National Conference on Recent Trends in Smart Materials (NCRTSM – 2023) on 06.10.2023.
8. Guest Lecture on “Recent Innovation in Science and Technology” on 06.10.2023.
9. International Conference on "Recent Trends in Engineering, & Science (ICRTES-2024) CPR, Kings College of Engineering from 02.04.2024-03.04.2024.
10. International Conference on "Recent Trends in Engineering, & Science (ICRTES-2025) CPR, Kings College of Engineering from 08.05.2025-.09.05.2025.
11. Workshop on Cyber Security Safe Guarding your digital world on 23.03.24-28.03.24.
12. Many events organized under various clubs like ISTE, YRC, CCC, GSC, GEC.

Book Publication

S.No	Title	ISBN	Academic Year
1	Published a book in the title of Environmental Sciences and Sustainability	978-81-980760-3-8	2024-25
2	Published a book in the title of Engineering Chemistry	978-81-989778-3-0	2025-26

AS RESOURCE PERSON:

1. Resource person for one day seminar on " NANO TECHNOLOGIES INSPIRED BY NATURE". On 17th Feb'23. At on secours Arts and Science College for Women, Mannargudi.
2. Resource Person for invitee talk of NATIONAL CONFERENCE ON "RECENT ADVANCES IN CHEMISTRY" (NCRAC-2023) on 07.03.2023 at Sengamala Thayaar Educational Trust Women's College (Autonomous), Mannargudi.
3. A webinar on Loss of Biodiversity organized by Eco Club on 07.03.2024.
4. A webinar on Inculcating Universal Human Values in Technical Education held on 29.10.2020 organized by ISTE.