




Kammavari Sangham (R) 1952, K. S. Group of Institutions
K. S. SCHOOL OF ENGINEERING & MANAGEMENT

No.15, Mallasandra, off. Kanakapura Road, Bengaluru-560109
Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, **Accredited by NAAC**

Faculty Name	Dr. Anitha R	
Designation	Assistant Professor	
DOB	08/01/1979	
DOJ	22/12/2021	
Educational Qualification	M.Sc., M.Phil., Ph.D	

Experience in Years	Experience in KSSEM : 3 Year Experience in Teaching : 18 Years 4 months Experience in Industry : Nil Total Experience : 18 Years 4 months
Subject Handled	Engineering Chemistry theory Engineering Chemistry lab Environmental studies Organic Chemistry (B.Sc.) Biochemistry (B.Sc.) Chemistry (PU)
Subject Handling	Engineering Chemistry theory Engineering Chemistry lab Environmental studies
Areas of Interest	Nanoscience, Biochemistry
E-mail	anithar@kssem.edu.in

EDUCATIONAL DETAILS: -

Examination / Degree	College/University	Year of Passing
UG	AVK College, Hassan, Mysore University.	1999
PG	Manasagangothri, Mysore University.	2003
M.Phil.	Bharathidasan University	2006
PhD	Bharathiar University.	2022

PUBLICATIONS:-**Journal Publications:**

SL.NO.	JOURNAL
1.	<p>Journal: (Web of Science) Indian Journal of Natural Sciences Impact Factor: ISI impact: 2.742 Article: Phase Transition, Molecular Polarizability and Histogram Equalization Studies on Two Liquid Crystals of Same Terminal Group and Different Linking and End Chains. ISSN number: 0976-0997</p>
2.	<p>Journal: (Taylor & Francis) Energy Sources, Part A: Utilization and Environmental effects. Impact Factor: SJR impact:1.49 IS impact:3.27 Article: Biodiesel synthesis from mixed non-edible oil feedstock using K₂CO₃ in NH₄OH catalyst mixture. ISSN number: 15567230-15567036 Link: https://doi.org/10.1080/15567036.2023.2216163</p>
3.	<p>Journal: (Scopus Indexed Journal) International Journal of Advanced Science and technology. Impact Factor: 0.48 Article: Synthesis, Characterization of CeO₂ nanoparticles via Eco-friendly green combustion technique and its antimicrobial, anticancer activities. ISSN number: 2005-4238 Link: http://sersc.org/journals/index.php/IJAST/article/view/428</p>
4.	<p>Journal: (Elsevier Journal) Journal of Science: Advanced material & Devices. Impact Factor: 5.469 Article: Cytotoxicity, antibacterial and antifungal activities of ZnO nanoparticles prepared by the <i>Artocarpus gomezianus</i> fruit mediated facile green combustion method. ISSN number: 2468-2179 Link: https://doi.org/10.1016/j.jsamd.2018.11.001</p>
5.	<p>Journal: (UGC recognized Journal) International Journal of Scientific Research & Review. Impact Factor: SIJF Impact:6.946 ISI Impact: 1.536 Article: Synthesis of hybrid ZnO@Ag core shell nanospheres and its antibacterial applications. ISSN number: 2279-543X Link:http://dynamicpublisher.org/ICTTSTM-2018/ DOI:16.10089.IJSRR.2018.V7I06.5245.2404</p>
6.	<p>Journal: (UGC recognized Journal) International Journal of Pharma and Bio Sciences. Impact Factor: Scientific Journal Impact: 7.446 RG Journal Impact: 0.36 Article: Anti-microbial activity of ZnO nanoparticles, Synthesis using <i>Artocarpus gomezianus</i> fruit mediated facile green combustion method. ISSN number:0975-6299 Link: http://dx.doi.org/10.22376/ijpbs.2017.8.4.b90-97</p>
7.	<p>Journal: (UGC recognized Journal) International Journal of Pharma and Bio Sciences. Impact Factor: Scientific Journal Impact: 7.446 RG Journal Impact: 0.36 Article: Photocatalytic activity of CeO₂ nanoparticles, synthesis using <i>Artocarpus gomezianus</i> fruit mediated facile green combustion method. ISSN number:0975-6299 Link: http://dx.doi.org/10.22376/ijpbs.2017.8.2.b933-936</p>

Conference Papers:			
SL.NO.	CONFERENCE		
1.	International Conference: Green technology, agriculture information technology, business management & social sciences, Centurion University, Odisha. Article: Phase transition, molecular polarizability and histogram equalization studies on two liquid crystals of same terminal group and different linking and end chains.		
2.	International Conference: "Frontiers in Engg., Management & Science"- APSCE, Bangalore. Article: Antibacterial and antifungal activities of Ag nanoparticles prepared by <i>Artocarpus gomezianus</i> fruit mediated facile green combustion method.		
3.	International Conference: "Accelerating innovations in material science"- BMSIT, Bangalore. Article: Antibacterial and antifungal activities of Ag nanoparticles prepared by <i>Artocarpus gomezianus</i> fruit mediated facile green combustion method.		
4.	International Conference: "Topical Transcends in Science, Technology & Management"- SVIT, Bangalore. Article: Synthesis of hybrid ZnO@Ag core shell nanospheres and its antibacterial applications.		
5.	National Conference: "Recent Advances in Materials"- APSCE, Bangalore. Article: Photocatalytic activity of ZnO nanoparticles, synthesis using <i>Artocarpus gomezianus</i> fruit mediated facile green combustion method.		
6.	National Conference: "Advanced Functional Materials"- DSATM, Bangalore. Article: Green synthesis of ZnO nanoparticles, Characterization and its Anti microbial activities.		
7.	National Conference: "Emerging Trends in Nano Applications"- BMSIT, Bangalore. Article: Eco-friendly spherical ZnO nanoparticles and its Antimicrobial activities.		
8.	National Conference: "The Indian Science Congress Association"- Acharya N.G. Ranga Agricultural University, Hyderabad. Article: Studies in the enzyme alkaline phosphatase from <i>Bacillus subtilis</i> .		
9.	National Conference: "The Indian Science Congress Association"- Acharya N.G. Ranga Agricultural University, Hyderabad. Article: Studies in the enzyme alkaline phosphatase from <i>Physcia orbicularis</i> .		
10.	National Conference: "The Indian Science Congress Association"- Acharya N.G. Ranga Agricultural University, Hyderabad. Article: Biochemical studies in leaves and galls of <i>Ficusglomerata</i> , Roxb. By <i>Pauropsylla depressa</i> , Crwf.		
11.	National Conference: "The Indian Science Congress Association"- Acharya N.G. Ranga Agricultural University, Hyderabad. Article: Molecular Biological studies in leaves and galls of <i>Ficusglomerata</i> , Roxb. By <i>Pauropsylla depressa</i> , Crwf.		
Sl.No.	PATENTS		
1	10 th , October 2023	Durable and high-performance Lithium ion batteries with nanostructured cathode materials.	Application under process (waiting for Technical Examination) Published date: 20/10/23
2	4 th , February 2022	Agricultural Land Pollution Identifying Device. Application Number: 357961-001 Applied in Intellectual Property India Patents	Application under process (waiting for Technical Examination)

AWARDS: -

1. Teacher of Excellence for 100% results in VTU Examination for Engineering Chemistry in the year 2008-2009.
2. Teacher of Excellence for 100% results in VTU Examination for Engineering Chemistry in the year 2013-2014
3. Teacher of Excellence for 100% results in VTU Examination for Engineering Chemistry in the year 2018-2019
4. Teacher of Excellence for 100% results in VTU Examination for Engineering Chemistry in the year 2023-2024

OTHER ACCOMPLISHMENT: -

Online Certificate Courses:

NPTEL-AICTE course on Plant development biology: Completed the course.

Text book Publication:

Title of the Book: Applied chemistry for EE stream

Publication: Astitva Prakashan

ISBN: 978-93-5838-917-3

Date: 20th September 2024

Chapters published in Book:

SL.NO.	DATE	BOOK TITLE WITH ISBN	TITLE OF THE CHAPTER
1.	30 th , September 2021	Research and Innovations in Chemical Sciences: An Approach towards in qualitative & quantitative studies and applications. Bharathi Publications, National Publisher. ISBN: 978-93-91681-17-3	Research Experimental Instruments – A Study of Liquid Crystal.
2.	5 th , August 2021	Role of Basic Sciences in Modern Engineering Education. Weser Books Publications. ISBN: 978-3-96492-286-1	Photocatalytic activity of CeO ₂ nanoparticles, synthesis using <i>Artocarpus gomezianus</i> fruit mediated facile green combustion method.

Seminar/Workshops/Conferences/FDP Attended:

Conference attended:

SL.NO.	DATE	NATIONAL & INTERNATIONAL CONFERENCES
1.	15 th September, 2024	“International Conference on Recent developments in science, engineering and technology-2024 on the eve of national engineer’s day 2024”- Sidvi Foundation, AP
2.	26 th & 27 th , January 2024	“International Conference on Advancing knowledge from multidisciplinary perspectives in agricultural, life science, engineering and technology”-Divine mother college, Puducherry.
3.	30 th & 31 st October 2023	“International Conference on Multidisciplinary innovative research in technology and management”- Sidvi Foundation, AP
4.	16 th & 17 th , July 2022	“International Conference on Green technology, Agriculture information technology, business management and social sciences”- Centurion university, Odisha.
5.	27 th & 28 th , April 2022	“International Conference on Frontiers in Engg., Management & Science”- APSCE, Bangalore.

6.	4 th to 7 th , August 2020	“International Conference on Accelerating innovations in material science”- BMSIT, Bangalore.
7.	3 rd & 4 th , May 2019	“International Conference on Signal Processing, Communication and Embedded Control” –APSCE, Bangalore
8.	17 th & 18 th , August 2018	“International Conference on Topical Transcends in Science, Technology & Management”- SVIT, Bangalore.
9.	30 th , August 2017	“National Conference on Recent Advances in Materials”- APSCE, Bangalore.
10.	27 th & 28 th , March 2015	“National Conference on Emerging Trends in Nano Applications”- BMSIT, Bangalore.
11.	11 th , October 2013	“National Conference on Nano Science & Nano technology” – BMSIT, Bangalore.
12.	3 rd to 7 th , January 2006	“National Conference on The Indian Science Congress Association”- Acharya N.G. Ranga Agricultural University, Hyderabad.

Work shop attended:

SL. NO.	DATE	WORKSHOP
1.	6 th , August 2024	NPTEL E-awareness workshop.
2.	01 st to 02 nd , August 2024	Emerging trends in Applied sciences 2024.
3.	30 th , May 2024	“Logical thinking and problem solving”-KSSEM, Bangalore
4.	11 th , May 2024	“CO, PO and mapping”- KSSEM, Bangalore
5.	24 th , November 2023	“Insight from leaders”- KSSEM, Bangalore.
6.	24 th , November 2022	“Revised chemistry syllabus-2022”- JSS, Bangalore.
7.	4 th , November 2022	“Innovation Harvesting & IP protection” - KSSEM, Bangalore.
8.	10 th to 11 th , October 2022	“Creativity and Innovation for Engineers”- KSSEM, Bangalore.
9.	21 st , July 2022	“NPTEL E-Awareness workshop”-KSSEM, Bangalore.
10.	11 th , June 2022	“Chemistry syllabus in Engg. & B.Sc. course”- CEC, Bangalore.
11.	5 th , May 2022	“IP Awareness/Training Program”- NIPAM, India.
12.	22 nd , September 2021	“National Education Policy-2020”- APET, Bangalore.
13.	14 th to 18 th , September 2021	“Entrepreneurship Awareness Program”- Nagpur IT, Nagpur.
14.	29 th , May 2021	“OBE Concepts & Implementation and Digital preparedness for NBA” – Maharashtra IT, Aurangabad.
15.	26 th to 30 th , June 2006	“Advanced Instrumental Analysis” – BMS College, Bangalore.
16.	19 th , April 2005	“Recent trends in Nanotechnology and its Applications” – MVJ Engg. College, Bangalore.
17.	11 th , September	“Teaching methodology in Engg. Chemistry”- SDM College of Engg.,

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FDP attended:

SL. NO.	DATE	FDP
1.	12 th to 17 th , August 2024	“EV technology: Battery modeling, sensors, BMS, Motors and E-bus charging”-VVIT, Mysore.
2.	15 th January to 15 th February 2024	“Plant developmental biology”-NPTEL, AICTE.
3.	4 th to 9 th December 2023	“Current trends in applied sciences”-APSCE, Bangalore.
4.	21 st to 27 th September 2023	“Orientation Excellence: Empowering New Faculty for success”- KSSEM, Bangalore.
5.	14 th & 15 th September 2023	“Applications of Augmented reality and virtual reality in Engineering”- KSSEM, Bangalore.
6.	22 nd to 26 th May 2023	“Polymer composites for engineering applications”- BMSCE, Bangalore.
7.	15 th to 19 th May 2023	“Advanced functional materials for science and engineering-2023”- DBIT, Bangalore.
8.	17 th to 21 st October	“Challenges and opportunities for women in science, technology, engineering and mathematics”- KSSEM, Bangalore.
9.	1 st to 5 th August 2022	“Recent trends in Material frontiers: Chemical and Biological aspects”- Amity University, Kolkata.
10.	25 th to 28 th July 2022	“Next generation sequencing-from Genomics to Medicine”- PES University, Bangalore.
11.	22 nd to 26 th March 2022	“Water-A Precious natural resource”- BIT, Bangalore.
12.	21 st to 25 th February 2022	“Recent Developments in Advanced Materials Processing Techniques & Characterization”- Presidency University, Bangalore.
13.	20 th to 24 th December 2021	“An overview of Teaching Techniques in Scientific Foundation of Health”-VTU, Chikkaballapura.
14.	6 th to 10 th December 2021	“Recent trends in sustainable Energy management & Green chemistry”-GAT, Bangalore.
15.	16 th to 20 th August 2021	“Art of Effective Teaching” – SRMIT, Chennai.
16.	14 th to 25 th June 2021	“Communication skills: Theory & Practices” – Integral University, Lucknow.
17.	19 th October 2020	“Virtual Labs for affiliated Engg. Colleges under VTU Belagavi” - VTU Belagavi.
18.	9 th to 13 th November 2020	“Recent Trends in Engineering materials, Nano Science and Nano Technology”- GAT, Bangalore.
19.	13 th & 14 th , July 2020	“Applications of Nanotechnology in Biomedicine & Engg.” – RGMCE, Nandyal
20.	17 th to 19 th , June 2019	“Faculty Development Program for Student Induction (FDP-SI)”- CIT, Bangalore.
21.	16 th , February 2018	“CBCS and its implications”-APSCE, Bangalore.

Webinar attended:

SL. NO.	DATE	WEBINAR
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1.	7 th , December 2022	“Emotional Intelligence”-MCM, Bangalore.
2.	03 rd , June 2022	“Advanced Bio-based polymer blends for Engg.Applications”- Chickaballapur.
3.	16 th , March 2022	“Marvels of Indian Metallurgy from the bygone era”- KSIT, Bangalore.
4.	24 th , May 2021	“ABC of Personality Development for Social Engineers” – Tamil Nadu Teachers Education University, Chennai.
5.	30 th , April 2021	“X-Ray Diffraction and Crystallography” – Reva University, Bangalore.
6.	10 th , September 2020	“H-Cardanol: Synthesis and Applications” – Manasagangothri, Mysore.
7.	27 th , August 2020	“Application of green chemistry towards sustainable technology” – AIT, Bangalore.
8.	8 th , August 2020	“Basics of electron microscopy” – JIT, Bangalore.
9.	4 th , August 2020	“Alternate energy resources: Current scenario and future challenges” – VCE, Mysore.
10.	29 th , July 2020	“Multifunctional applications of nanometal oxides” – EWIT, Bangalore.
11.	28 th , July 2020	“Theory and Interpretation of IR Spectra” – DBIT, Bangalore.
12.	28 th , July 2020	“Peptide-based functional biomaterials for biomedical applications” – SJBIT, Bangalore.
13.	27 th , July 2020	“COVID-19: Ways to overcome challenges” - VCE, Mysore.
14.	24 th , July 2020	“Third generation biofuel, algae biodiesel - A potential future fuel” – SKIT, Bangalore.
15.	21 st , July 2020	“Recent advances in Porphyrinoid chemistry” – BIET, Davanagere.
16.	17 th , July 2020	“Metallic corrosion and Graphene based anti-corrosion coating materials” - VCE, Mysore.
17.	16 th , July 2020	“Nanotechnology & its applications” – VIT&C, Telangana.
18.	16 th , July 2020	“Thermoelectric nanomaterials for green energy applications” – SJRC, Bangalore.
19.	14 th , July 2020	“Carrier development and skill sets required for industries” – Cauvery IT, Mandya.
20.	14 th , July 2020	“Multifunctional materials for energy applications” - VCE, Mysore.
21.	13 th , July 2020	“Progress of nanomaterials& its applications in new technologies” – AMC, Bangalore.
22.	13 th , July 2020	“Advanced features of Microsoft Excel” – KSSEM, Bangalore.
23.	13 th , July 2020	“Corrosion testing of Materials” – CIT, Bangalore.
24.	9 th , July 2020	“Insights on writing an impactful manuscript & navigating through peer review process” – VIT, Bangalore.
25.	8 th , July 2020	“Optical Nanostructure in nature” – St.Joseph Engg. College, Mangalore.
26.	8 th , July 2020	“PXRD: A powerful tool for the characterization of nanomaterials” – Bangalore.
27.	3 rd , July 2020	“Solar photochemical water splitting: Principles and mechanisms” – Bangalore.

PROFESSIONAL MEMBERSHIP: -

1. Institute for Engineering Research and Publication (IFERP)-Membership No. PM29807631

2. IAAC-Membership No. FRTJQC-CE001273

