

FACULTY PROFILE- Dr. Kalyan Raj

	Dr. KALYAN RAJ Professor and HOD Department of Chemistry BMS College of Engineering Bull temple road, Bengaluru-19. Qualification: M.Sc., M.Phil., Ph.D. kr.chem@bmsce.ac.in Contact # 9448228548 Research experience: 15 years Teaching experience: 22 years Date of Joining this Institution (BMSCE): 11.10.1996 <u>Research Interests:</u> Electrochemical deposition, oxidation kinetics, corrosion and its control, Nanomaterial synthesis and characterization, Electrochemical synthesis and electrode design
About Myself	Current research interests are in the area of Electrochemical deposition and oxidation kinetics, corrosion and its control and Nanomaterial synthesis and characterization. Published 12 papers in refereed journals and 15 conference proceedings. Teaching experience of over 22 years. Received Best Presentation Award.
Education	Ph.D. (2009), Department of studies in chemistry, central college, Bangalore University, Bangalore. M.Phil. (1996), Department of studies in chemistry, central college, Bangalore University, Bangalore. M.Sc. (1995), Department of studies in chemistry, central college, Bangalore University, Bangalore. B.Sc. (1993), SJR college of science Arts and Commerce, Annand Rao circle, Bangalore
Personal web site/page if any then mention the Webpage link	Web: http://www.bmsce.in/faculty/chemistry/dr-kalyan_raj Researcher ID: http://www.researcherid.com/rid/O-8526-2015 ORCID: http://orcid.org/0000-0001-6822-3786 Google Scholar: https://scholar.google.co.in/citations/kalyan_raj
Selected Publications	1. Studies on Electroless Iron-Phosphorus alloy coatings, S.M. Mayanna, Kalyan Raj and L.Ramesh Ciencia & Tecnologia dos MATERIALS Vol.8 No. 3-4/ (1996)38-41.

	2. Electroless deposited Ni-B-Pt alloy as electrocatalyst for hydrogen evolution in alkaline medium. Kalyan Raj and M.F.Ahmed,J.Electrochem Soc.India Vol.55-2/3(2006) 77-80. 3. Corrosion characterization of Al 6061 / zinc metal matrix composites in different concentrations of sodium hydroxide solution. Kalyan Raj, et.al J.ElectrochemSoc.India Vol.56-1/2(2007) 25-28. 4. Open circuit potential studies of Al6061/ Zircon metal matrix composites in neutral chloride medium Kalyan Raj, et.al J.ElectrochemSoc.IndiaVol.56-3/4(2007) 101-10. 5. Mechanistic Investigation of Oxidation of Rizatriptan Benzoate by Chloramine-B: A Kinetic Spectrophotometric study,Kalyan Raj et.al.Int.J.Pharm.SciRev.Res.,Mar-Apr2014;Article No.49,pages 290-294. 6. Spectrophotometric study of Oxidation kinetics and Mechanism of Losartan Potassium Using N-Chlorosuccinimide.Kalyan Raj et.al.International Research Journal of pure & Applied Chemistry 9(2):1-16, 2015, Article no.IRJPAC.18332 ISSN: 2231-3443. 7. Kinetic Spectrophotometric Method for quantitation of Rizatriptan Benzoate in Pharmaceutical formulations Kalyan Raj, et.al.International Research Journal of pure & Applied Chemistry 9(1):1-11, 2015, Article no.IRJPAC.17935 ISSN: 2231-3443. 8. Cyclic voltammetric studies of the interaction of Rizatriptan Benzoate with copper in aqueous solutions, Kalyan Raj, et.al, International Research Journal of Pharmacy ISSN 2230-8407. 9. Electrochemical and Spectroscopic studies of Interaction of Clopidogrel Bisulphate with Calf thymus DNA. Kalyan Raj et.al Asian Journal of Chemistry.AJC 18664. 10. Ruthenium (III) catalyzed and uncatalyzed oxidation of Pregablin by acidic chloramine-T: Kinetic and Mechanistic approach Kalyan Raj et.al International Research Journal of Pharmacy.ISSN 2230-8407. 11. Cyclic Voltammertic Studies of Invitro Interaction of Clopidogrel Bisulphate and Aspirin. ELSEVIER Materials Today: Proceedings 5 (2018) 22390–22398.
Courses Handled	Engineering Chemistry (Theory and Laboratory) Institutional Elective- Corrosion science and Engineering Technical Chemistry(Theory and Laboratory)

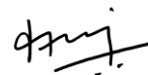
Additional Responsibilities	Coordinator, Autonomous Exams of BE, B.Arch, MBA, MCA of. SEE, BMSCE.2014-2016 • NBA Coordinator • Core committee member, Graduation day, cultural fest-UTSAV • Core committee member-Anti-Ragging committee • Organizer for various function's in the college • Chief coordinator-FDP-RACMEA-2016 • Coordinator-FDP-pedagogy-2016 • Organizing chair-REDIND-2019
Research Profile	• Area of Research: Electrochemical deposition, oxidation kinetics, corrosion and its control • Research Guidance: Ph.D. Completed: 01, Pursuing: 04. (Guide to Visvesvaraya Technological university) • Research papers in National & International Journals: 14 • No. of papers in Proceedings of conferences: 8 • No. of papers presented in National & International Conferences: 18 • Funded Research Projects: 01 No. of Invited Talks delivered: 02 • Technical sessions chaired in conferences: 2 • Participation in Conferences & Workshops: 18 • Visits abroad: 02
Awards/ Achievements/ Responsibilities	• Merit Scholarship for M.Sc • Member, Ph.D. Scrutiny Committee, VTU. • Member,BoE and BoS, Autonomous Colleges (RVCE, DSCE,Bangalore, Dr AIT, Bangalore, Organising Chair for 1 faculty development programs and 1 national conference in the sree siddaganga college for science,arts and commerce. • Resource person for Invited talks in the college and other institutions
Reviewer National / International Journals	Journal of Scientific & Industrial ResearchCSIR-National Institute of Science Communication & Information ResourcesDr K S Krishnan Marg, Near Pusa Gate, New Delhi -110012, India.
Membership of Professional Organizations	• The Indian Society for Technical Education (ISTE)

LIST OF SHORT TERM COURSE ATTENDED(from 2012-2018)

Sr. No	Name of Course/Summer/Winter School	Place	Duration	Sponsoring Agency
01	Department of Science and Technology, Govt. of India sponsored FDP on “Entrepreneurship Development” , Organized by Department of MBA, BMSCE, Bangalore.	BMSCE Bangalore	19 th – 30 th , March,2012 2 Weeks	Department of Science and Technology, Govt. of India sponsored
02	ISTE approved Short term training programme on “Project Management” , Organized by BMSCE, Bangalore.	BMSCE Bangalore	20 th – 25 th , August ,2012 1 week	ISTE
03	ISTE Workshop on “Engineering Thermodynamics ” , conducted by Indian Institute of Technology Bombay, held under the National Mission on Education through ICT (MHRD)	BMSCE Bangalore	11 th – 21 st , December, 2012 2 Weeks	ISTE
04	ISTE sponsored short term training program on “Brain & Cognition: Neuroscience-signal & Image Analysis’ , Organized by Department of Medical Electronics, BMSCE, Bangalore.	BMSCE Bangalore	7 th – 12 th , January ,2013 1 Week	ISTE
05	TEQIP-II sponsored FDP on “ Biostatistics-Statistical Analysis through Software Tools” , Organized by Department of Medical Electronics & Department of Mathematics, BMSCE, Bangalore.	BMSCE Bangalore	11 th – 16 th , February , 2013 1 Week	TEQIP-II
06	TEQIP-II sponsored one week workshop on “MEMS and Nano Technology , Organized by Department of Mechanical Engineering, BMSCE, Bangalore.	BMSCE Bangalore	19 rd Sep-24 th , August, 2013	TEQIP-II

			1 Week	
07	TEQIP phase-II sponsored FDP on “Engineering Design” Organized by Department of Mechanical Engineering, UVCE, Bangalore.	UVCE Bangalore	23 rd Sep - 5 th , October, 2013 2 Weeks	TEQIP-II
08	TEQIP-II sponsored Technology transfer & FDP on “ Non-Traditional Machining and Materials Characterization (NTMMC) ” “Organized by Department of Mechanical Engineering, BMSCE, Bangalore.	BMSCE Bangalore	23 rd – 27 th , May , 2016 1 Week	TEQIP-II
09	TEQIP-II sponsored Technology transfer & FDP on “Conducting Polymer Composites, Synthesis and Characterization ” “Organized by Department of Physics, BMSCE, Bangalore.	BMSCE Bangalore	6 th – 10 th June , 2016 1 Week	TEQIP-II
10	TEQIP-II sponsored FDP on “Recent Advances in Chemistry of Materials for Engineering Applications(RACMEA)” Organized by Department of Chemistry, BMSCE, Bangalore.	BMSCE Bangalore	11 th – 15 th July , 2016 1 Week	TEQIP-II
11	TEQIP-II sponsored Quality Improvement Programme on “ ESSENTIALS OF PEDAGOGY ” Organized by Department of Chemistry, BMSCE, Bangalore.	BMSCE Bangalore	25 th – 29 th July , 2016 1 Week	TEQIP-II
12	TEQIP-II sponsored FDP on “3M-Modeling, Materials and Manufacturing)” Organized by Department of Mechanical Engineering, BMSCE, Bangalore.	BMSCE Bangalore	13 th – 23 rd , December, 2016 2 Weeks	TEQIP-II
13	AICTE-ISTE short training programme on “Advances in Finite Element Methods	BMSCE Bangalore	17 th – 28 th , July, 2017	AICTE-ISTE

	and Applications” jointly Organized by Department of Mechanical Engineering, Department of Civil Engineering and Department of Electrical & Electronics Engineering BMSCE, Bangalore.		2 Weeks	
14	TEQIP-III sponsored FDP on “Advanced Manufacturing “Organized by Department of Mechanical Engineering, BMSCE, Bangalore.	BMSCE Bangalore	16 th – 27 th , July, 2018 2 Weeks	TEQIP-III



Dr. Kalyan Raj
Professor and Head
Department of Chemistry,
BMSCE, Bengaluru-19