

Dr. KALLESHAPPA C. M.**Professor and HOD**

Department of Chemical Engineering,
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WORK EXPERIENCE: 26 YEARS

- Trainee Engineer in Harihar Polyfibers Ltd, Harihar from 22.6 1989 to 22.6. 1989
- Production Engineer in Purex Laboratories Pvt Ltd, Bangalore from 1.6.1990 to 31.5. 1991.
- Trainee Engineer in Mysore Paper Mills Ltd, Bhadravati from 17.6.1991 to 16.12.1991.
- Project Engineer in Shogun organics Ltd, Kurkumbh, Pune District from 5.3 1995 to 19.4. 1998.
- Lecturer in Rural Engineering College, Hulkoti, from 18.8. 1998 to 5.1. 1999.
- Lecturer in Chemical Engineering Department, Bapuji Institute of Engineering & Technology, Davangere from 5.1.1999 to 1.3.2006
- Senior Lecturer in Chemical Engineering Department from 1.3.2006 to 1.9.2012
- Assistant Professor in Chemical Engineering Department from 1.9.2012 to 7.7.2018
- Associate Professor in Chemical Engg Department of Bapuji Institute of Engineering and Technology, Davangere from 2.7.2018 to 6.4.2022
- Promoted as Associate Professor & Head w.e.f 11.5.2020
- Professor & Head of Department, Chemical Engineering, Bapuji Institute of Engineering and Technology, from 6.4.2022 till date.

EDUCATIONAL QUALIFICATION:

- Ph.D [Faculty of Applied Sciences] from Visvesvaraya Technological University, Belgaum, 2011.
- M.E. [Chemical Engineering] from Rural Engineering College Hulkoti, Karnatak University, Dharwad in 1994.
- B.E [Chemical Engineering] from Rural Engineering College Hulkoti, Karnatak University, Dharwad in 1990.

DISSERTATION DETAILS:

- Ph.D: “Studies on fluoride status of soils and groundwater in fluorotic areas of Davangere district and its impact on soil properties and on selected crops”

ROLES AND RESPONSIBILITIES:

- Principal Investigator for VGST project “Pharmacological Screening of Traditional Medicines”. VGST, Govt. of Karnataka has sanctioned Rs 30 Lakhs to Chemical Engineering Department to establish “Centre of Innovative Science Education” (CISE).
- Convener, Student Academic Council, BIET, Davanagere.
- Research Guide in Chemical Engineering Research Center.

AWARDS:

- Recipient of Best Teacher Award for 100% results for the academic years: 2000-01, 2001-02, 2003-04, 2004-05, 2006-07, 2007-08.

MEMBERSHIP:

- Life Member of Indian Society of Technical Education (Membership No LM27481, Dated 7-6-1999)
- Annual Fellow, Indian Council of Chemists for the year 2003 & 2006
- Member of Institution of Engineers (India). Membership No M165624-9

CORE SUBJECTS TAUGHT:

Chemical Process Calculations, Mechanical Operations, Computer Aided Chemical Equipment Drawing, Chemical Engg. Thermodynamics, Mass Transfer, Process Equipment Design & Drawing, Transport Phenomena, Chemical Process Integration, Sugar Technology, Process Engineering Economics, Novel Separation Techniques, Solid Waste Management.

EXPERT LECTURES DELIVERED:

- Delivered Lecture on Heat Transfer in Evaporators & Mechanical Operations to MSc Food Technology Students of Davangere University During the year 2015
- Delivered Lecture on Heat Transfer in Evaporators & Mechanical Operations to MSc Food Technology Students of Davangere University During the year 2016
- Delivered Lecture on Heat Transfer in Evaporators & Mass Transfer Operations to MSc Food Technology Students of Davangere University During the year 2017
- Delivered lecture and demonstrated equipment ‘Super Critical Extractor’ and ‘Fourier Transform Infrared Spectrophotometer’ to participants of workshop on “Applied Biotechnology-Hands On” conducted on 16-22 January 2017, organized by Biotechnology department, BIET, Davangere
- Delivered a presentation on Scope & Opportunities in Chemical Engineering for 1st semester students during Student Induction Programme (SIP) 2020-21 on 18-12-2020 at BIET, Davangere
- Delivered a presentation on Scope & Opportunities in Chemical Engineering for 2nd semester students during Student Induction Programme (SIP) 2020-21 on 9-6-21 at BIET, Davangere

SEMINARS/WORKSHOPS/EVENTS ORGANIZED:

- Two day workshop for setting of Syllabus for III and IV Semester Chemical Engineering of Visvesvaraya Technological University in April 2003.
- Two day workshop on “Biochemistry for teachers of Biotechnology of Visvesvaraya Technological University” on 25th and 26th August 2003.
- A two day National workshop on “Vermicompost”, Dept. of Chemical Engg., B.I.E.T., Davangere on 23rd and 24th December 2003.
- Two Day National Level Students Symposium “Biochemexcel-2005”, Dept. of Chemical Engg., B.I.E.T., Davangere on 24th and 25th November 2005.

- National Level Students Symposium “Medi-Bio-Chemexcel-2007”, Dept. of Chemical Engg., B.I.E.T., Davangere on 13th April 2007.
- National Level Students Symposium “Chemexcel-2007” Dept. of Chemical Engg., B.I.E.T., Davangere on 31st October 2007.
- National Level Students Symposium “Chemexcel-2009”, Dept. of Chemical Engg., B.I.E.T., Davangere on 6th March 2009.
- One Day Training Programme on Waste Management, Dept. of Chemical Engg., B.I.E.T., Davangere on 8-02-2011.
- National Level Students Symposium “Chemexcel-2018”, Dept. of Chemical Engg., B.I.E.T., Davangere on 23rd March 2018.
- National Level Students Symposium “Chemexcel-2019”, Dept. of Chemical Engg., B.I.E.T., Davangere on 22nd March 2019.
- National Level Students Symposium “Chemexcel-2019”, Dept. of Chemical Engg., B.I.E.T., Davangere on 25th October 2019.
- Five days Training workshop on “Unisim Process Simulation Software for Chemical Engineering Students was organized from 20.12.2021 to 24.12.2021. Mr Babukannan Shankar , Honey well gave hands on training.
- National Level Students Symposium “Chemexcel-2022”, Dept. of Chemical Engg., B.I.E.T., Davangere on 29th June 2022.
- **SEMINAR/ WORKSHOPS ATTENDED:**
 - Setting of Model Question papers for VTU-7th semester B.E. and the demonstration of software related to computer lab in chemical Engineering held at RVCE, Bangalore-59 on 17-10-2001. Setting of Model Question papers for VTU-7th semester B.E. and the demonstration of software related to computer lab in chemical Engineering held at RVCE, Bangalore-59 on 17-10-2001.
 - AICTE sponsored National seminar on Recent Trends in Liquid Crystals, Polymers and Composite materials held at Ghousia College of Engineering, Ramanagaram from 18-20 September ,2003
 - Workshop on Vermi-compost and actively participated in the deliberations held at Bapuji Institute of Engineering & Technology, Davangere on 23rd and 24th December-2003

- Thermodynamics Training Workshop for B.E. Biotechnology course organized by the Department of Biotechnology, Bapuji Institute of Engineering & Technology, Davangere from 20 -21 February 2004
- AICTE-ISTE sponsored Short-Term Training Programme on Green Manufacturing strategies for process Industries held at Bannari Amman Institute of technology, Satyamangalam during March 29-April 3, 2004.
- Short time training programme “Recent trends in Analytical Instrumentation” held at Bapuji Institute of Engineering &Technology, Davangere from August 30th to September 3rd 2004.
- ISTE 35th Annual Convention and National Seminar on “Disaster Prediction, Prevention & Management” organized by B.I.E.T., Davangere on 15-17 December 2005.
- “Teachers Orientation Programme” conducted by Mission Alma Mater at Bapuji Auditorium, Davangere on 20.09.09.
- National Conference o Nano-Bio-Technology-Applications in Medicine. Nano-Bio-Tech 2009, 28-11-09 to 30-11-2009 at SSIMS & RC, Davangere
- Three VTU Sponsored faculty development programme “Reengineering on Environmental Impact Assessment” 5-7 March 2011, Department of Chemistry, B.I.E.T., Davangere.
- “5th Bangalore Nano” conference organized by Vision Group on Science & Technology , Government of Karnataka on 5-7 December 2012 at Hotel Lalit Ashok, Bangalore
- Two day National workshop on “Industry-Institution Interaction for the Prospects in the field of Chemical Engineering” on 29-30th November 2013 organized by Dept. of Chemical Engineering, SDM College of Engineering, Dharwad.
- “6th Bangalore India Nano” conference organized by Vision Group on Science & Technology , Government of Karnataka from 4-6thDecember 2013 at Hotel Lalit Ashok, Bangalore
- Training of evaluators on outcome based education and accreditation”. 5-3-2014 (Phase-I) & 21st -23rd March 2014 (Phase-II). Organized by B.I.E.T., Davangere and NBA, New Delhi.

- “7th Bangalore India Nano” conference organized by Vision Group on Science & Technology, Government of Karnataka on 5-6, December 2014 at Hotel Lalit Ashok, Bangalore.
- Workshop on Intellectual Property Rights organized by BIET on 6TH April 2017
- One Day workshop on “AICTE Model Curriculum” for UG & PG Programmes held on 12th March 2018 at BMS College of Engineering, Bangalore.
- Joint Board of Studies meeting of VTU on 29th December 2018 at VIAT Muddenahalli, Chikkaballapura
- Recent Trends in Environmental Impact Assessment –Process & Procedures (RTEIA-PP held at BIET, Davangere from 17th to 19th January 2019.
- National seminar on “New Trends in Biotechnology” & 14th Conference of Society of cytologists and Geneticists held at BIET, Davangere during 6th to 8th March 2019.
- Recent innovations in chemical engineering (RICE) organized by Department of Chemical Engineering, BKIT, Bhalki during 29th June to 3rd July 2020.
- “Recent Advances in Nano Particles, Films and Membranes” organized by department of Chemical Engineering, SIT, Tumkur from 10th to 14th August 2020
- Faculty development programme on Virtual Labs for Affiliated Engineering Colleges under VTU Belagavi conducted on 19th October 2020 organized by VTU, Belagavi with NITK, Surathkal
- NBA Awareness Webinar on “Outcome Based Education and Accreditation” conducted on 16.02.2021 by NBA, New Delhi, & VTU, Belagavi
- Three day online workshop on Future of Chemical Engineering (19th -21 March 2021), Department of Chemical Engineering, IIT Dhanbad.
- FDP on “Recent Advancement in Waste Water Treatment and R from 16-19 November 2021 organized by Department of Chemical Engineering, SDMCET, Dharwad
- Five day invited talk series virtually on “ Biotechnology vs COVID: Challenges, Opportunities and Ethics for the Research & BT Industries conducted on 24th-28th May 2021 by Department of Biotechnology, BIET, Davangere.
- Interactive session on National Assessment and Accreditation Council (NAAC)-Prospects, procedures and process delivered by Dr RC Hiremath, Former Principal, KLE, Bengaluru on 22.7.2021 at SSM Cultural Centre BIET, Davangere.

- Workshop on “Assessment Reforms and Practices under NEP-2020 on 29.10.21 at Dr APJ Abdul Kalam Auditorium, VTU, Belgavi. Prof Gopal Krishna Joshi, Executive Director at Karnataka State Higher Education Council, GoK was resource person.
- Five day FDP on Data Analytics and Data Science organized by department of ISE , BIET Davangere from 30.1.2023 to 3.2. 2023
- 5 day online faculty development program on “Recent Trends in Chemical and Petrochemical Industries” conducted by JCT college of Engineering & Technology, Coimbatore on 21.11.2022 to 25.11.2022
- One week online FDP on “Myriad Regimes Possessing the Potentiality for Chemical Engineers during 14-19 February 2022 organized by department of Chemical Engineering, MSRIT, Bangalore .
- One day workshop on “Industry Connect” organized by VTU at Nagarbhavi, Bangalore Various companies like NASSCom, Auto Desk, L&T EduTech participated in the workshop.

PUBLICATIONS IN JOURNALS:

- Kalleshappa, C.M., Manjappa, S., Aravinda, H.B., Pujar, B.G., and Shanmukhappa, S. “Studies on occurrence of fluoride in groundwaters used for irrigation in Harihar taluk situated in central part of Karnataka” Indian Journal of Environmental Protection. 28 (1), 2008: 38 - 44 (An international monthly journal dealing with all aspects of environmental pollution and control)
- Kalleshappa, C.M., Manjappa, S., Aravinda, H.B., Pujar, B.G., and Shanmukhappa, S. “Study of groundwater quality for irrigation in Honnali taluk, Davangere, Karnataka (India)” Pollution Research. 27 (3), 2008: 411 - 418 (A Quarterly International Journal)
- Shamala.T, Krupanidhi.A.M, Kalleshappa C.M “Investigation on Antioxidant Activity of Bioactive Molecules of Bauhinia Purpurea (L) Bark” International Journal of Engineering Research and Development e-ISSN: 2278-067X, p-ISSN: 2278-800X, www.ijerd.com Volume 11, Issue 11 (November 2015), PP.60-62
- A.M. Krupanidhi, Kalleshappa C.M., Ashok R.Chanchi, Prakash Dabadi, Akshara “Antihyperlipidemic Activities of Isolated bio Compounds of Aegle Marmelos” IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS) e-ISSN:2278-3008, p-

- Praveen Kumar D.G, Kalleshappa C.M and Aravinda H.B
Fixed-Bed column studies on adsorption of 4-nitroaniline from aqueous solution by bagasse fly ash, 7 (9) Ver. II, [2018], 39-46. International Journal of Engineering Science Invention (IJESI)
- Praveen Kumar D.G, Kalleshappa C.M and Aravinda H.B
Adsorption of picric acid onto granular activated carbon from aqueous solution: parametric, kinetic, equilibrium and thermodynamic study”, 03 Issue 08, [2018], 19-29. International Journal of Latest Engineering and Management Research (IJLEMR)
- Praveen Kumar D. G, Kalleshappa C.M, Amarnath P.C, Shashikala K. J
Bagasse fly Ash as Effective Adsorbent: Evaluation of Adsorptive Characteristics for 4-Nitroaniline Removal. International Journal for Modern Trends in Science & Technology, 7(05):155-161,2021ISSN:2455-3778 online

PUBLICATIONS IN CONFERENCE PROCEEDINGS:

- Desai., G.P., Kalleshappa, C.M., and Shanmukhappa, S. “Studies on accumulation of fluoride in soils and its bio-chemical effects on agricultural crops in some fluoride affected villages of Davangere district in central part of Karnataka” Abstracts, Twenty Second National Conference of Indian Council of Chemists, Roorkee, Uttaranchal , India, 2003, pp 243 - 244.
- Shanmukhappa, S., Desai., G.P., Kalleshappa, C.M., and Basavarajappa, K.S. “Effect of fluoride ion concentration in water, surface soils and vegetables of three fluoride affected villages of Davangere district in southern part of India” Proceedings of International Conference on Water and Health (WAH - 05), SJCE, Mysore, India, 22 – 23 January, 2005, pp 128 - 129.
- Kalleshappa, C.M., and Shanmukhappa, S. “Fluoride status of groundwater, soils and some vegetables grown in fluorotic areas of Davangere district” Abstracts of Silver Jubilee Conference of Indian Council of Chemists, Birla College of Arts, Science and Commerce, Kalyan, Mumbai, India, 27 - 29 December, 2007 , p 188.

- Kalleshappa, C.M., Pujar, B.G., and Shanmukhappa, S. “Investigations on fluoride in groundwater and its impact on soils and some plants in the fluorotic areas of Davangere district” Proceedings of International Conference on Cleaner Technology and Environmental Management (ICCTEM - 2007), Pondicherry Engineering College,\
- Kalleshappa C.M, Kulkarni B.M, Subhanalla NS, Sunil GM, Mousami Nath, Shruti, “Production of Synthetic zeolites and study of their properties” Student Project Programme (Engineering Sciences) Technical Record of 35th series 2011-12, KSCST, IISc , Bangalore held at SDMIT, Ujire-574240

BOOKS AUTHORED:

- A Course material entitled “ A Modern Approach to Mechanical Separations in Chemical Industries” is prepared under AICTE-CEP, for the year 2000- 2001, Sponsored by Ministry of Human Resources and Development, Government of India, New Delhi.
- “Mass Transfer Laboratory Manual”, Department of Chemical Engineering, B.I.E.T., Davangere.
- “Pollution Control & Instrumental Analysis Laboratory Manual”, Department of Chemical Engineering, B.I.E.T., Davangere.

PROJECTS SPONSORED BY KSCST/DST/VGST/NAIN/INSTITUTE

- “Process Optimization of Diethyl Sulphate” during the year 1999-2000, funded by KSCST, Bangalore: Rs 5000=00.
- “Evaluation of Phosphorous Content in Indian Soybean varieties and its association with Oil Characteristics”. 2005-06, funded by KSCST, Bangalore: Rs 3,000=00.
- “Production of Synthetic Zeolites and Study on their Structural Properties” during the year 2011-12, funded by KSCST, Bangalore: Rs 4000=00.
- “Extraction of Essential Oils”, during the year 2013-14, funded by KSCST, Bangalore: Rs 5500=00.
- “Vision group on Science & Technology, Govt. of Karnataka has sanctioned Rs 30,000,00=00 (Thirty Lacs) to chemical engineering department to establish “Centre for Innovative Science Education” (CISE) on the theme “Pharmacological Screening of Traditional Medicines” vide letter No VGST/P-8/CISE/2011-12/1147 Dated 22.12.2011

- Ecofriendly biodegradable plastics during the year 2018-19;Institute funding Rs 6000
- Super Critical Extraction of Oleoresins from Chillies was selected for funding by NAIN Center , BIET, Davangere. 2,30,000
- Extraction of cellulose fiber from areca husk and its application in manufacturing Rayon during the year 2021-22.Institute Funding Rs 5000

PHD GUIDED

1.PhD thesis entitled “Removal of Benzene Derivatives from Aqueous Solution by Adsorption on Low Cost Adsorbents” submitted to VTU, Belagavi by Praveen Kumar DG bearing USN4BD11PGN03. The degree was awarded in the year 8.2.2020

2. Smt Shashikala KJ bearing USN 4BD20PCH01 registered for PhD under VTU Belagavi on topic “Egg shell as a low cost adsorbent for removal of heavy metals and dyes from aqueous solutions. Qualified the entrance test. Completed two course work examinations.

ADMINISTRATIVE EXPERIENCE

- Executive Staff Member, Staff Association, BIET. Participated in arranging Farewell functions, Institute Annual Day, Sports Day, ISTE conventions etc.
- Treasurer, ‘Association of Chemical Engineers’, forum of Chemical Engineering students, B.I.E.T., Davangere.
- Member, BOE, Kuvempu University during the year 2002-2004.
- Organizing Secretary, Chemexcel 2007, B.I.E.T., Davangere.
- Co-ordinator, VTU Examinations, BIET for the year 2012.
- Member BOE, Siddaganga Institute of Technology, Tumkur , 2010-11, 2011-12.
- Member BOE, VTU, Belgaum 2011-12, 2012-13.
- External DCS ,VTU Examinations, 2014-15
- Member BOS, VTU, Belgaum 2016-17
- Member, Editorial Board,Technowave-30 and Technowave -31
- Placement Co-ordinator, Chemical Engg. Department, B.I.E.T.2019-20
- Subject Expert, KPSC, Bangalore (2016 & 2018)

- Member , Press & Media Committee, BIET (2020)
- Head, Chemical Engineering, Dept from 11.5.2020
- Convener, Student Association, BIET, (2020)
- Member Secretary, Water Committee, BIET (2020)
- ISTE Faculty Advisor, BIET, Students Chapter, BIET Chapter 2020
- NIRF Nodal Officer, BIET, 2021, 2023
- External Expert for Academic Audit, SDM College of Engineering
- BOE Chairman Chemical /Petrochem Board, VTU Belagavi
- BOS Chairman, Chemical /Polymer Board (2022-25), VTU , Belagavi

CONSULTANCY WORK:

- Analysis of construction admixtures for specific gravity, viscosity, chlorides etc
- Analysis iron ore for Fe, Si and Mn contents.
- Analysis of water for pH, EC, TDS, fluoride, hardness, sulphates, nitrates, phosphates, carbonates and bicarbonates.
- Analysis of body fluids for iodine content,
- Analysis of dental samples & soft drinks for fluoride content.

OTHER DETAILS

- Successfully completed the continuing education course with 2:0 credits on “Principles and Practice of Industrial Effluent Pollution Control” conducted during January-May 1991 under the Proficiency Programme conducted by IISc, Bangalore.
- Successfully completed “Certificate Course in computing” with ‘A’ Grade (83%) conducted by IGNOU, New Delhi, on June 2002.
- Successfully completed the course in ‘C’ Language with ‘A’ Grade on 20th March 2012 conducted by LCC Infotech Limited, Davangere.

