

Smt. SHASHIKALA K J

Assistant Professor

Department of Chemical Engineering

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WORK EXPERIENCE: 9 YEARS

- Worked as Senior Research Associate in Syngene International Ltd., Bengaluru from February 2015 to July 2016.
- At present working as an Assistant Professor in the Department of Chemical Engineering, of Bapuji Institute of Engineering and Technology, Davangere from August 2016.

EDUCATIONAL QUALIFICATION:

- M.Tech [Chemical Engineering] from Dayananda Sagar College of Engineering, Bengaluru in 2014 with First Class with Distinction and secured 2nd Rank under VTU.
- B.E [Chemical Engineering] from Bapuji Institute of Engineering and Technology, Davangere, in 2012 with First Class with Distinction.
- Pursuing PhD under the guidance of Dr. C M Kalleshappa and Dr. G P Desai at research center Department of Chemical Engineering, BIET Davangere registered at VTU Belgaum.

DISSERTATION DETAILS:

- M.Tech: Study on Fabrication and Evaluation of Electrolyte Supported Solid Oxide Fuel Cell
- PhD: Egg shell as a low cost absorbent for removal of heavy metals and dyes from aqueous solution. (On going)

MEMBERSHIP OF PROFESSIONAL BODIES:

- Life Member of Institute of Engineers(India) **AM187482-1**
- The Indian Society for Technical Education **LM 135089**

PUBLICATIONS:

- Praveen Kumar D. G, Kalleshappa C.M, Amarnath P.C, Shashikala K. J, published a paper entitled “Bagasse fly Ash as Effective Adsorbent: Evaluation of Adsorptive Characteristics for 4-Nitroaniline Removal”, in International Journal for Modern Trends in Science & Technology, 7(05):155-161, 2021, ISSN: 2455-3778.

CORE SUBJECTS TAUGHT:

- Momentum Transfer, Process Heat Transfer, Mechanical Operations, Computer Aided Chemical Equipment Drawing, Energy Technology, Mass Transfer Operations, Process Control and Instrumentation, Process Engineering Economics and Management.

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

- “A study on Removal of Constituents from Rice Husk Ash (RHA) and its Application” during the year 2018-2019 funded by New Age Incubation Network (NAIN) Center, Govt. of Karnataka with an amount of Rs. 1,80,000 =00.
- “Extraction of Silver from used X-Ray films” during the academic year 2020 -2021, funded by VTU, Belgaum with an amount of Rs. 5000=00.
- “Removal of heavy metals from industrial and municipal waste water effluents using cyanobacteria biomass” during the academic year 2021-2022, funded by VTU, Belgaum with an amount of Rs. 5000=00.
- “Waste Management –Egg shell as a calcium supplement” during the academic year 2022-2023, funded by Institute funding scheme with an amount of Rs. 5000=00.

WORKSHOPS / STTP / SEMINARS/WEBINAR/FDP ATTENDED:

- Participated in two day workshop on “Plant Taxonomy” sponsored by Science Academies, Govt. of India i.e. INSA, IAS and NASI in Department of Biotechnology and Research Center, BIET, Davangere from 27th -28th January 2017.
- Participated a program on “Role of Women in Society” organized by Department of Information Science and Engineering in association with ISTE Faculty Chapter, ISTE Student Chapter, NSS, YRCW, BIET, Davangere on 10th March 2017.

- Attended training course on “Groundwater development management “held during 12th - 14th September 2017 at Davangere, Karnataka.
- Participated in three days Faculty Development Programme on “Recent Trends in Environmental Impact Assessment-Process and Procedures (RTEIA-PP) organized by PG Programme in Environmental Engineering, Dept. of Civil Engineering in association with KSPCB regional office, Davangere & IEI (India), Davangere Local Centre from 17th – 19th January 2019.
- Attended one week Short term training programme through ICT Mode on “Effective Teaching” organized by Dept. of Information Science and Engineering, BIET, Davangere in coordination with National Institute of Technical Teachers’ Training & Research, Kolkata from 15th July 2019 to 19th July 2019. **Certificate No. ICT/2019-20/7602.**
- Participated in National seminar on “New Trends in Biotechnology & 14th Conference of Society of Cytologists and Geneticists and Bio Entrepreneurship Summit” organized by Department of Biotechnology and Research Center, BIET, Davangere from 6th to 8th March 2019.
- Participated in one week online FDP on “NBA and NAAC Accreditation Process” organized by Internal quality Assurance Cell, M S Ramaiah Institute of Technology under AICTE Margdarshan scheme from 4th to 8th June 2020.
- Participated in webinar on “Smart Irrigation using Internet of Things” jointly organized by Department of Civil Engineering and Computer Science and Engineering, GMIT Davangere on 15th June 2020.
- Participated in four days live webinar on “Research Methodology and Data Analysis” organized by KSTA, Department of Science and Technology, Govt. of Karnataka with registration no. KSTARMW4FDP0094 from 17th -20th June 2020.
- Attended five days online FDP on “Recent Innovations in Chemical Engineering (RICE)” organized by Department of Chemical Engineering, BKIT, Bhalki from 29th June to 3rd July 2020.
- Participated in five days FDP on “Recent Advancements in Nanoparticles, Films and Membranes” organized by Department of Chemical Engineering, SIT, Tumkur from 10th to 14th August 2020.

- Attended 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.
- Participated in Three day online workshop on Future of Chemical Engineering sponsored by TEQIP-III and jointly organized by Department of Chemical Engineering, IIT (ISM) Dhanbad and IChE, Dhanbad Regional Center from 19th -21st March 2021.
- Participated and Secured place in “Blog-a-Thon: Boot Camp and Competition” organized by Department of Computer Science and Engineering, BIET on 25th March 2021.
- Participated in Five day workshop on “Biotechnology vs COVID: Challenges, Opportunities and Ethics for the Research & BT Industries” organized by Department of Biotechnology, BIET, Davangere, Virtually from 24th-28th May 2021.
- Attended two –days workshop on “Implementation of Nation Education Policy -2020” organized by BIET, Davangere in association with VTU Belagavi on 10th and 11th December 2021 at SSM cultural center, BIET Davangere.
- Participated in one week online FDP on “ Myriad Regimes Possessing the Potentiality for Chemical Engineers” organized by Department of Chemical Engineering, M S Ramaiah Institute of Technology, Bangalore from 14th to 19th February 2022.
- Participated in tech talk on “Innovate for India” organized by Department of Information Science and Engineering in association with NAIN on 20th May 2022.
- Participated in five days online FDP on “Recent advances in Chemical Engineering-2022(RACE-22)” organized by Department of Chemical Engineering, Rajalakshmi Engineering College from 8th to 12th November 2022.
- Participated in five days online FDP on “Recent trends in Chemical and Petrochemical industries” organized by JCT College of Engineering and Technology from 21st to 25th November 2022.
- Participated in five days FDP on “Data Analytics and Data Science” organized by the Department of IS and E, BIET Davangere in association with VTU , Belguam from 30th January 2023 to 3rd February 2023.

- Successfully completed the NPTEL –AICTE faculty development programme funded by the MoE, Govt. of India on the course “Data Analytics with Python” with a consolidated score of 61%. Roll No. NPTEL23CS08S53420098 for duration of 12 Weeks from January to April 2023.

WORKSHOPS/SEMINARS/ WEBINARS ORGANIZED:

- Organized National Level Students Symposium “Chemexcel-2018”, Dept. of Chemical Engg., B.I.E.T., Davangere on 23rd March 2018.
- Organized National Level Students Symposium “Chemexcel-2019”, Dept. of Chemical Engg., B.I.E.T., Davangere on 22nd March 2019.
- Organized National Level Students “Chemexcel-2K19”, Dept. of Chemical Engg., B.I.E.T., Davangere on 25th October 2K19.
- Organized Webinar on “Computational Fluid Dynamics(CFD)” by Dr. Vinod Kallur, Prof.& Head, Dept. of Chemical Engineering RVCE Bengaluru organized by Dept. of Chemical Engineering BIET Davangere on 24th June 2021.
- Organized Webinar on “Environment Management at JSW Steel Ltd.” By Dr. R T Srinivasa Rao, General Manager M/s JSW Steel Ltd. Toranagallu, Bellary organized by Dept. of Chemical Engineering BIET Davangere on 1st June 2021.
- Five days software training workshop on “Unisim Process Simulation software for Chemical Engineers” organized for students of Chemical Engineering Department. Mr. Babukannan Shankar, Honey well, Chennai gave hands on traing from 20th to 24th December 2021.
- Organized a webinar on “Innovations through Design Thinking” by Dr. Jagadish H Patil, Associate Professor Dept. of Chemical Engineering, RVCE Bangalore in association with ISTE and IQAC BIET on 9th May 2022.
- Organized National Level Students Symposium “CHEMEXCEL-2022”, at Dept. of Chemical Engg., B.I.E.T., Davangere on 29th June 2022.

AWARDS:

- Secured 2nd rank and Silver Medal under Visvesvaraya Technological University, Belgaum for Master of Technology in Chemical Engineering, Dayananda Sagar College of Engineering, Bangalore.
- Secured Second prize in poster contest conducted during National Safety week -2016 organized by Syngene International Limited, Bangalore.
- Secured spot recognition of Excellence in Process Development and Team work at Syngene International Limited, Bangalore.
- Secured certificate of excellence in recognition of significant contribution towards demonstrating excellent process development and engineering of a critical intermediate involving thermal cracking process at Syngene International Limited, Bangalore.
- Secured place in “Blog-a-Thon: Boot Camp and Competition” organized by Department of Computer Science and Engineering, BIET on 25th March 2021.

SWAYAM COURSES:

- Successfully completed the NPTEL online certification funded by the MoE, Govt. of India on the course “Data Analytics with Python” with a consolidated score of 61%. Roll No. NPTEL23CS08S53420098 for duration of 12 Weeks from January to April 2023 secured 4 credits.