

AMARNATH P.C

Assistant Professor

Department of Chemical Engineering

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RESEARCH INTEREST:

Environmental Sciences, Chemical Reaction Engineering, Bioprocessing Engineering, Novel Separation Techniques.

TEACHING EXPERIENCE:

- Worked as a Lecturer in Chemical Engineering Department of Bapuji Institute of Engineering and Technology, Davangere from August 2011.
- Working as Assistant Professor from September 2012 to till date in the Department of Chemical Engineering, Bapuji Institute of Engineering and Technology, Davangere.

INDUSTRIAL EXPERIENCE:

- Worked as Project Assistant for 1 year at Tadimety Aromatics from July 2010 to June 2011

EDUCATIONAL QUALIFICATION:

- M.Tech. [Chemical Engineering] from Siddaganga Institute of Technology, Tumkur in 2011 with First Class with Distinction.
- B.E [Biotechnology] from G.M Institute of Technology, Davangere in 2009 with First Class.

DISSERTATION DETAILS:

Title: Investigative studies in the area of Production of Higher Aldehydes (C-8, C-10 & C-12) from Higher Alcohols using Partial Oxidation Process.

Description: The fatty aldehydes like C-8, C-10, C-12 and C-14 are having a wide range of applications in the perfumery industries due to their pleasant odor. These products can be synthesized economically by using the Oxidative Dehydrogenation method using copper as

catalyst. Copper being the cheapest among other noble metals has proved its worth. The packed bed column reactor is used to carry out oxidative dehydrogenation. The various parameters like yield, conversion, selectivity and also the catalytic deactivation have been studied over a period of 10 months. The method is proved to be viable and showed good results.

CORE SUBJECTS TAUGHT:

Chemical Reaction Engineering I & II, Biochemical Engineering, Novel Separation Techniques, Mechanical Operations, Chemical Process Industries etc

SEMINAR/ WORKSHOPS ATTENDED/PRESENTED:

- Attended a VGST-VTU sponsored faculty development programme on NANOTECHNOLOGY from 11th to 15th April 2012 held at VTU, Belgaum.
- Attended FEEL TEACHER Workshop from 18th to 20th April 2013 at B.I.E.T., Davangere.
- Attended VTU-VGST Faculty Development Programme on “Sustainable Development through Sugar Industries” from 28th to 31st July 2013 at M/S Shamanur Sugars Ltd., Duggavathi, Davangere.
- Presented a paper on “Oxidative dehydrogenation of Decanol to Decanaldehyde (C-10 aldehydes) in a packed bed catalytic reactor in presence of copper catalyst” at CHEMCORE-2011 held at MVJ College of Engineering, Bangalore
- Attended a two week ISTE STTP on “**Environmental Studies**” conducted by IIT Bombay from 2nd to 12th June 2015.
- Attended a training course on “**Ground Water Development and Management**” conducted by Central Ground Water Board, South Western Region, Bengaluru on 12th to 14th September 2017.
- Attended 3 day FDP on “**Recent Trends in Environmental Impact Assessment- Process and Procedures (RTEIA-PP)**” conducted by KSPCB, Davangere and IEI local centre on 17th to 19th January 2019.
- Attended 3 day National Seminar on “**New Trends in Biotechnology & 14th Conference of Society of Cytologists and Geneticists**” conducted jointly by SSIMS, Davangere and BIET, Davangere on 6th to 8th March 2019.

- Attended 5 day online FDP on **“Recent Innovations in Chemical Engineering (RICE)”** organized by BKIT, Bhalki from 29th June to 3rd July 2020.
- Attended 5 day FDP on **“Recent Advancements in Nanoparticles, Films and Membranes”** organized by Siddaganga Institute of Technology, Tumkur from 10th to 14th August 2020.
- Attended 3 day online workshop on **“Future of Chemical Engineering”** sponsored by TEQUIP-III and jointly organized by IIT Dhanbad and IChE, Dhanbad regional centre during 19th to 21st March 2021.
- Participated in 5 day workshop on **“Biotechnology vs COVID: Challenges, Opportunities and Ethics for the Research and BT industries”** organized by BIET, Davangere between 24th to 28th May 2021.
- Attended FDP on **Recent Advances in Wastewater Treatment and Recycle** held from 16th - 19th November 2021 Organized by Department of Chemical Engineering, SDM college Dharwad.
- Attended a 2 days’ workshop on **“Implementation of National Education Policy-2020”** organized in BIET in association with VTU, Belagavi on 10th and 11th December.
- Attended one week online FDP on **“Myriad Regimes possessing the potentiality for chemical Engineers”** from 14th to 19th February 2022 organized by MSRIT.
- Attended 5 day FDP from 8th to 12th November on **“Recent Advances in Chemical Engineering-2022 (RACE-22)”** organized by Rajalakshmi Engg. College, Chennai.
- Participated 5 day online FDP from 21st to 25th November 2022 on **“Recent Trends in Chemical and Petrochemical Industries”** organized by JCT college of Engg, and Technology.
- Completed 12 weeks FDP course on **“Data Analytics and Python”** conducted by NPTEL during January to April 2023.
- Attended 5 day FDP on **“Data Analytics and Data Science”** organized by Department of IS&E, BIET, Davangere during 30-01-2023 to 03-02-2023.

SPONSORED PROJECTS:

Sl. No.	Year	Project title	Investigators	Funding Agency	Amount sanctioned Rs.
1	2022-23	Investigation of moisture retention properties of cotton fabric through biopolymer coating to grow saplings	Srinidhi R Kulkarni Amarnath P C	KSCST 46S_BE_3276	6000=00
2	2021-22	Decolourization and COD reduction of textile waste Water by advanced oxidation process	Srinidhi R Kulkarni Amarnath P C	KSCST 45S_BE_0050	10000=00
3	2019-20	Investigations on performance of adhesive produced from cashew nut shell	Amarnath P C	VTU	5000=00

PAPER PUBLISHED:

- 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.

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 training 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 Engineering., B.I.E.T., Davangere on 29th June 2022.

INSTITUTIONAL LEVEL RESPONSIBILITIES:

- Institute Sports Coordinator
- Member of Admission Committee
- Member of Entrepreneurship Development Cell
- Department ERP Coordinator
- Department Placement Coordinator
- Department Website Coordinator
- Department Internship Coordinator