

ADIL MUHAMMED

Assistant Professor,
Dept. of Chemical Engineering,
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EDUCATION

- Master of Technology (M.Tech.), Chemical Engineering, Indian Institute of Technology, Kharagpur, India 2009 – 2011
- Bachelor of Technology (B.Tech.), Chemical Engineering Government Engineering College, Thrissur University of Calicut, Kerala, India 2005 – 2009

EXPERIENCE

- Assistant Professor, Department of Chemical Engineering, Government Engineering College, Kozhikode, Kerala, India July 2019-Present
- Assistant Professor, Department of Chemical Engineering, T.K.M College of Engineering, Kollam, Kerala, India Nov. 2015-July 2019
- Assistant Professor, Department of Chemical Engineering, Manipal Institute of Technology, Manipal, Karnataka, India July 2014-Nov. 2015

AREA OF INTEREST

- Carbon Capture and Conversion
- Reaction Engineering & Catalysis
- Fuel Cells
- Process Modeling & Simulation
- Process Equipment Design
- Energy Engineering

FUNDED PROJECT

- K.T.U CERD Research Seed Money project 'Cost effective packed bed column with zinc oxide coated regenerated spent FCC catalyst system for the water treatment' – Rs 200000
- TEQIP-II Research Seed Money project 'Kinetic and mass transfer study of CO₂ absorption in sodium hydroxide solution' – Rs 200000

PUBLICATIONS

- Nirmal, M. N., and Muhammed, A., (2021), Molecular Simulation of N₂-O₂ Adsorption on Zeolites. SSRN eJournal. Available at: <http://dx.doi.org/10.2139/ssrn.3991478>
- P., Anamika and Muhammed, A., (2021), Flow Limitation in High Pressure Amine Scrubber of Vacuum Gas Oil Hydro-Desulphurization Unit. SSRN eJournal. Available at: <http://dx.doi.org/10.2139/ssrn.3989523>
- Mohan, S. E., Shyja, M., & Muhammed, A., (2021) Production and characterisation of oxygenic photo granules for the aeration free wastewater treatment. In Dawane, V., Nakkela A. K., Manam V. K., (Ed(s).) *Amelioration of Environment and Biological Sciences with Technology*, p. 90-98, Immortal Publications, ISBN:978-93-5526-161-8
- Muhammed, A., et al., (2021), The oxygenic photogranule for wastewater treatment process, *IOP Conference Series: Material Science and Engineering*, 1114(1), p. 012090. Available at: [The oxygenic photogranule for wastewater treatment process - IOPscience](https://doi.org/10.1088/1757-1022/1114/1/012090)

- Muhammed, A. et al., (2021), Zinc oxide coated regenerated spent FCC catalyst for water purification, *Abstracts of International Conferences & Meetings*, 1(3), p. 15.
- Muhammed, A., et al., (2020), Kinetic study and mass transfer characteristics study of CO₂ absorption in sodium hydroxide solution using wetted wall column, *Proceedings of Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering (VICATRME-20)*, p. 31, ISBN: 978-93-5406-356-5

SOFTWARE PROFICIENCY

- | | | |
|----------|----------------|-------------|
| ▪ MATLAB | ▪ Ansys Fluent | ▪ MS Office |
| ▪ UniSim | ▪ Aspen Plus | ▪ DWSIM |

FDP/TRAINING PROGRAMS COORDINATED

- Convenor, International Conference on Process Engineering and Sustainable Technology (STEP 2021) under the aegis of YUKTHI 2021, International Conference on Emerging Trends in Engineering organized by Government Engineering College, Kozhikode, Kerala, India from 24/09/2021 to 26/09/2021
- TEQIP-II sponsored 6 days Online Faculty Development Programme on ‘Non-Conventional Energy Sources: Technologies and Trends’ organized by Government Engineering College, Kozhikode, Kerala, India from 26/08/2021 to 31/08/2021
- DTE sponsored 6 days Online Faculty and Staff Development Training Programme on ‘Fuel Cell Technology: Progress, Challenges and Future Prospects’ organized by Government Engineering College, Kozhikode, Kerala, India from 22/03/2021 to 27/03/2021
- TEQIP-II sponsored Industry Institute Interaction One-day Workshop on ‘Perspective, Prospects and Problems in value addition of Beach Sand Minerals’ organized by T.K.M College of Engineering, Kollam, Kerala, India on 5th February 2016

ADMINISTRATIVE DUTIES *(List of major duties)*

- Assistant Convenor, KTU Calicut Cluster, APJ Abdul Kalam Technological University from August 2021 onwards.
- Chief Superintendent of External Examination, Government Engineering College Kozhikode from September 2019 to August 2021.
- Member, Internal Quality Assurance Cell (IQAC), Government Engineering College Kozhikode from September 2019 onwards.
- Accreditation Coordinator, M.Tech Computer Aided Process Design – NBA Accreditation, Government Engineering College Kozhikode from September 2019 onwards.
- Lab in charge of Simulation lab, Department of Chemical Engineering, Government Engineering College Kozhikode from September 2019 onwards.
- Staff Advisor, B.Tech Chemical Engineering 2016-20 Batch, Government Engineering College Kozhikode from July 2019 to June 2020.
- Staff Advisor, B.Tech Chemical Engineering 2021-25 Batch, Government Engineering College Kozhikode from November 2021.