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|  | **Title** | **First Name** | **Last Name** | **Photograph** |
| **Name** | Dr. | JACKSON | GURUNG |  |
| **Designation** | Assistant Professor |
| **Educational Qualification** | * B.Sc. (Chemistry Hons.), St. Joseph’s College, Darjeeling.
* M.Sc. in Chemistry, University of North Bengal (NBU).
* Ph.D. in Chemistry, National Institute of Technology Mizoram (NIT Mizoram).
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| **Date of Joining** | 1st October 2020 |
| **Department** | Chemistry |
| **Address** |
| Local | North Bengal St. Xavier’s College, Rajganj, 735134. |
| Permanent | Phoobsering T.E, Village No. 03,P.O Lebong, Dist.-Darjeeling,West Bengal, 734105, India. |
| **Phone Numbers**  |
| Cell Phone | 8787759536 |
| **Email** | jack\_gurung\_chem@nbxc.org  |
| **Teaching Experiences****(Present & Previous)** | * Working as an assistant professor at North Bengal St. Xavier’s College since 1st Oct 2020 to till present.
* Appointed as an Academic counselor (UG Chemistry & Lab Classes) for Indira Gandhi National Open University (IGNOU) at Study centre: North Bengal St. Xavier’s College (45015) since 17th February 2022 to till present.
* Research assistantship during PhD course: Taught Chemistry for 1st year B. Tech students (2017) and provided mentorship to B. Tech students for the final year project.
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| **Research Interests** | * Chemical Thermodynamics, Colloids and Interface science.
* Drug–Surfactant/additives system and Soft condensed matter.
* Materials chemistry, Waste water treatment and Food chemistry.
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| **Others**  | * Worked as Project staff (JRF) in SERB–DST sponsored project on “Physicochemical properties of amphiphilic drugs: Effects of addition of organic solvents” at the Dept. of Chemistry, NIT Mizoram (Since 27th July 2015 to 31st August 2017).
* One year certificate course in “ORGANIC FARMING” under Career Oriented Program, St. Joseph’s College, Darjeeling affiliated to University of North Bengal (NBU), 2008.
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| **Awards**  | * Awarded for the best poster presentation and won a cash award at **“International Winter School 2018 on Frontier in Materials Science”**, in December 2018.

Title of the paper: “*Role of Ethanol–Water Mixed Media in Micellization of Amphiphilic Drug Amitriptyline Hydrochloride and its Phase Separation in Presence of Cationic Surfactants*”Awarding Agency: Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India.Award was given by Bharat Ratna, Prof. C. N. R. Rao.* Received Young Scientist Award for the Best Oral Presentation at **“International Chemical Congress- Chemistry for Sustainable Development”**, Chitwan, Nepal in March 2018.

Title of the paper: “*Effects of Cationic Surfactants on Clouding Action of the Drug Amitriptyline Hydrochloride in Ethylene Glycol–Water and Glycerol–Water Mixed Media*” Awarding Agency: Nepal Chemical Society. |
| ***Some Major Research Articles In Journals*** | 1. R. Singh, **J. Gurung**, A. J. Gogoi & A. K. Pulikkal, Molecular interactions of cationic/anionic surfactants in presence of anionic antibiotic drug Cloxacillin sodium at different temperatures: Micellization and thermodynamics studies, ***Journal of Molecular Liquids***, 2024, 395,123807. <https://doi.org/10.1016/j.molliq.2023.1238072>
2. J. Rozamliana, **J. Gurung** & A. K. Pulikkal, Exploring the interactions of anionic dye tartrazine with cationic surfactants in aqueous solution: Insights into micellization and interfacial properties, ***Inorganic Chemistry Communications***, 2024, 159, 111740. <https://doi.org/10.1016/j.inoche.2023.1117403>
3. J. Rozamliana, **J. Gurung** & A. K. Pulikkal, Conductometric, tensiometric and spectroscopic studies on the interaction of congo red with dodecyltrimethylammonium bromide: Effects of electrolyte and non-electrolyte, ***Journal of Molecular Liquids***, 2023, 390, 123094. <https://doi.org/10.1016/j.molliq.2023.123094>
4. Y. G. Devi, A. K. Pulikkal & **J. Gurung**, Research progress on the synthesis of different types of gemini surfactants with functionalized hydrophobic moiety and the space, ***ChemistrySelect****,* 2022, 7, e202203485. <https://doi.org/10.1002/slct.202203485>
5. J. Rozamliana, **J. Gurung** & A. K. Pulikkal, Interaction of metanil yellow dye with cationic surfactants: Conductometric and spectroscopic studies, ***Journal of Molecular Liquids***, 2022, 368, 120653. https://doi.org/10.1016/j.molliq.2022.120653
6. D. Saha, **J. Gurung**, B. Roy, A. K. Pulikkal, A. Bhowmik & S. Pattanayak, Optimizing pyrolysis process parameters of plastic grocery bag, with mass–energy assessment and characterization of oil at optimal condition, ***Clean Technologies and Environmental Policy***, 2022, 24 (6), 1927–1944. <https://doi.org/10.1007/s10098-022-02298-x>
7. J. Lalthlengliani, **J. Gurung** & A. K. Pulikkal, Solubilization of aqueous-insoluble phenothiazine drug in TX-100 micellar solution and interactions of cationic/anionic surfactants with phenothiazine–TX-100 system, ***Journal of Molecular Liquids***, 2022, 354, 118823. <https://doi.org/10.1016/j.molliq.2022.118823>
8. Y. G. Devi, **J. Gurung** & A. K. Pulikkal, Micellar Solution Behavior of Cetylpyridinium surfactants in 2-Propanol–Water Mixed Media at Different Temperatures, ***Journal of Chemical & Engineering Data****,* 2021, 66 (1), 368–378. <https://doi.org/10.1021/acs.jced.0c00734>
9. C. Parvathiraja, S. Shailajha, S. Shanavas & **J. Gurung**, Biosynthesis of silver nanoparticles by Cyperous pangorei and its potential in structural, optical and catalytic dye degradation, ***Applied Nanoscience****,* 2021, 11, 477–491. <https://doi.org/10.1007/s13204-020-01585-7>
10. **J. Gurung**, J. Anjudikkal & A. K. Pulikkal, Amphiphilic drug–additive systems in aqueous and organic solvent–water mixed media: A comprehensive account on physicochemical properties, ***Journal of Molecular Liquids***, 2020, 318, 114221. <https://doi.org/10.1016/j.molliq.2020.114221>
11. **J. Gurung** & Ajmal Koya Pulikkal, Thermodynamic Parameters of Amitriptyline Hydrochloride–Additives at Cloud Point: Effects of the Ethanol–Water Mixed Media, ***Chemical Engineering Communications***, 2020, 207 (10), 1462–1473. <https://doi.org/10.1080/00986445.2019.1657421>
12. S. Pattanayak, L. Mishra & **J. Gurung**, Investigation of various maintenance parameters for auxiliaries in a coal‐handling plant aided by a Visual Basic 6.0–based scheduled program, ***Engineering Reports***, 2019, 1, 1-13 (e12049). <https://doi.org/10.1002/eng2.12049>
13. **J. Gurung** & A. K. Pulikkal, Self-Assembly and Thermodynamic Parameters of Amitriptyline Hydrochloride in Polar Organic Solvent–Water Mixed Media, ***Journal of Chemical & Engineering Data***, 2019, 64 (10), 4493–4500. <https://doi.org/10.1021/acs.jced.9b00542>
14. **J. Gurung** & A. K. Pulikkal, Phase Separation of Amphiphilic Drug Amitriptyline Hydrochloride in the Presence of Additives: Role of Ethanol, ***Journal of Chemical & Engineering Data***, 2018, 63 (10), 3829–3838. <https://doi.org/10.1021/acs.jced.8b00463>
15. A. K. Pulikkal & **J. Gurung**, Clouding Behavior of Antidepressant Drug-Additive System in Ethylene Glycol/Glycerol-Water Mixed Media and Their Thermodynamic Parameters at Cloud Point, ***New Journal of Chemistry***, 2018, 42 (6), 4402–4411. <https://doi.org/10.1039/C7NJ04369D>
16. **J. Gurung** & P. A. Koya, Effects of Cationic Surfactants on Clouding Action of the Drug Amitriptyline Hydrochloride in Ethylene Glycol-Water and Glycerol-Water Mixed Media, ***ChemistrySelec****t*, 2017, 2 (28), 9193 – 9200. <https://doi.org/10.1002/slct.201701772>
 |
| **PAPER PRESENTED IN SEMINARS/ CONFERENCES** | * Oral Presentation in “International seminar on “Frontiers in Chemistry 2023” held at Department of Chemistry, University of North Bengal, West Bengal, India (13th – 15th March 2023).

**Title:** *“Solubilization of aqueous-insoluble phenothiazine drug in TX-100 micellar solution and interactions of cationic/anionic surfactants with phenothiazine–TX-100 system”** Oral Presentation in “National Conference on Functional Materials and Applications-2019 (NCFMA-2019)” held at National Institute of Technology Mizoram, India (22nd & 23rd November 2019).

**Title:** *“Micellization of antidepressant drug in different compositions of polar organic solvent−water mixed media”** Poster Presentation in “International Winter School 2018 on Frontier in Materials Science” held at JNCASR, Bangalore, India (3rd – 7th December 2018).

**Title:** *“Role of Ethanol–Water Mixed Media in Micellization of Amphiphilic Drug Amitriptyline Hydrochloride and its Phase Separation in Presence of Cationic Surfactants”* * Oral Presentation in National Seminar on “Technical Education: Quality not Quantity − Need of the Nation” held at National Institute of Technology Mizoram, India (25th & 26th June 2018). **Title:** *“Clouding behavior and Thermodynamics of Micellization of Amphiphilic Drug Amitriptyline Hydrochloride in Ethylene Glycol*−*Water and Glycerol*−*Water Mixed Media”*
* Oral Presentation in “International Chemical Congress- Chemistry for Sustainable Development”, an International Conference Organized by Nepal Chemical Society at Sauraha, Chitwan, Nepal (8th – 10th March 2018).

**Title:** “*Effects of Cationic Surfactants on Clouding Action of the Drug Amitriptyline Hydrochloride in Ethylene Glycol–Water and Glycerol–Water Mixed Media*” * Poster Presentation in “National Symposium on Nano Science & Technology (NSNST-2016)” at Centre for Nano Science and Engineering (CeNSE), IISc Bangalore, India (29th & 30th June 2016).

**Title:** *“Design and synthesis of Cu, Ag and Au nanoparticles and their interaction with curcumin”*  |
| **PARTICIPATED IN SEMINARS/ CONFERENCES/RC/OP** | * Participated in the **“International seminar on “Frontiers in Chemistry 2023”** held at the Department of Chemistry, University of North Bengal, India (13th – 15th March 2023).
* Participated in a Five-days Capacity Building Workshop on **“Effective Research Methodology and Publication Strategies”**-Faculty Development Programme jointly organized by AIACHE, New Delhi, and Madras Christian College, Chennai, India (27th – 3rd Feb 2023).
* Participated in the AICTE sponsored 5-Day Online Faculty Development Program on **“Cognitive Skills, Design, and Critical Thinking”** organized by National Institute of Technology Mizoram (19th – 23rd September 2022).
* Participated in **"Synergistic Training Program Utilizing Advanced Research Instrumentation" under "Synergistic Training program Utilizing the scientific and Technological Infrastructure"** (STUTI) supported by the Department of Science & Technology (DST), Govt. of India, New Delhi held at the Department of Physics, Aligarh Muslim University (AMU) (6th –12th May 2022).
* Participated in a **Short-term training program on Surface Chemistry: Colloids and Interface Aspects with Applications** (SCCIA-2022), organized by Department of Chemistry, Sardar Vallabhbhai National Institute of Technology (SVNIT), Gujarat – India (3rd – 7th January 2022).
* Participation in the talk on **100 Years of Photoelectric Effect** by Prof. HC Verma Organized under the aegis of Decennial Year Celebration by Department of Physics, School of Basic Sciences, Manipal University Jaipur, Rajasthan, India (25th September 2021).
* Participated in the Two Days Virtual Workshop on **“Digital Evaluation: Methods and Processes”**, organized by Department of Computer Science & Applications, St. Joseph’s College Darjeeling, West Bengal, India (23rd & 24th July 2021).
* Participated in ACS Science Talk Virtual Lecture Series on **“Alternative Solvents for Sustainable Development”** (19th March 2021).
* Participated in ACS Science Talk Virtual Lecture Series on **“The Science of Science: Priority Research Needs in Environmental Science and Health”** (26th Feb 2021).
* Participated in the webinar on **“NEP (National Education Policy) 2020 – Its Implications on Higher Education in India"** organized by National Institute of Technology Mizoram, India (25th August 2020).
* Participated in the International Virtual Conference on **“Innovations in Chemical Sciences-2020: An International Meet for Quality and Quantity (ICSIMQQ-2020)”**, organized by the Division of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Chennai (21st & 22nd August 2020).
* Participated in a webinar on **“Full Agenda of American Chemical Society on Campus India Virtual Event”** (10th August 2020).
* Participated in Virtual Workshop on **"Mastering the Publishing Process"** organized by the Department of Science & Technology and American Chemical Society (DST-ACS) (28th July 2020).
* Participated in 1st International e-Conference on **“Recent Advances in Physics & Materials Science-2020 (IC-RAPMS-2020)”** organized by Kurseong College, Darjeeling, in collaboration with St. Joseph’s College, Darjeeling, West Bengal, India (9th & 10th July 2020).
* Participated in International Virtual Conference on **“Recent Advance in Organic Medicinal and Biological Chemistry (RAOMBC-2020)”** organized by the Division of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Chennai (8th & 9th July 2020).
* Participated in five days online lecture series (webinar) on **“Recent Advances in Fundamental & Applied Physics”** organized by the Department of Physics, University of Science & Technology Meghalaya (USTM), India (10th – 14th June 2020).
* Participated in **“National Conference on Functional Materials and Applications-2019 (NCFMA-2019)”** held at National Institute of Technology Mizoram, India (22nd & 23rd Nov 2019).
* Participated in the three days national level Workshop on **Quantum Science and Quantum Technology** held at Seminar Hall, Pachhunga University College, Aizawl, Mizoram Sponsored by the Department of Science & Technology (DST), Govt. of India (29th – 31st July 2019).
* Participated in the International Conference on **Chemistry and Environmental Sustainability (ICCES-2019)** held at Mizoram University, India (19th – 22nd February 2019).
* Participated in **International Winter School 2018 on Frontier in Materials Science** held at JNCASR, Bangalore, India (3rd to 7th Dec 2018).
* Participated in National Seminar on **“Technical Education: Quality not Quantity – Need of the Nation”** held at National Institute of Technology Mizoram, India (25th & 26th June 2018).
* Participated in GIAN course on **“Advanced Scientific Process Planning” in Manufacturing Processes”** at National Institute of Technology, Mizoram (07th –11th May 2018).
* Participated in the one-week short term course on **“Advances in Manufacturing Processes”** organized by the Department of Mechanical Engineering at National Institute of Technology, Mizoram (19th – 23rd March 2018).
* Participated in **“International Chemical Congress- Chemistry for Sustainable Development”**, an international conference organized by Nepal Chemical Society at Sauraha, Chitwan, Nepal (8th – 10th March 2018).
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| **MEMBERSHIP OF PROFESSIONAL AND ACADEMIC BODIES** | * ACS (American Chemical Society) Community Associate, Member No.: 32440285.
 |

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