



ADDRESS

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RESIDENCE

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Dr. SAJAN JEROME

ASSISTANT PROFESSOR

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY THIRUCHIRAPPALLI

2024
Ph.D. IN MECHANICAL ENGINEERING

T K M COLLEGE OF ENGINEERING KOLLAM

2004 - 2006
M TECH IN INDUSTRIAL REFRIGERATION AND CRYOGENIC ENGINEERING

COLLEGE OF ENGINEERING ADOOR

1998-2002
B TECH IN MECHANICAL ENGINEERING

TEACHING EXPERIENCE

MAR BASELIOS COLLEGE OF ENGINEERING & TECHNOLOGY, THIRUVANANTHAPURAM

January 2007 to FEBRUARY 2008

LBS COLLEGE OF ENGINEERING, KASARAGOD

February 2008 to June 2012

LBS INSTITUTE OF TECHNOLOGY FOR WOMEN THIRUVANANTHAPURAM

June 2012 to July 2018

NATIONAL INSTITUTE OF TECHNOLOGY THIRUCHIRAPPALLI

July 2017 to July 2021

LBS INSTITUTE OF TECHNOLOGY FOR WOMEN THIRUVANANTHAPURAM

July 2021 to August 2021

LBS COLLEGE OF ENGINEERING, KASARAGOD

September 2021 to Till date

RESEARCH INTERESTS

Energy policy, Renewable energy, Alternate fuels, Electric vehicles

MEMBERSHIP IN PROFESSIONAL BODIES

ISTE, IEI, ECS, ISHMT

FACULTY DEVELOPMENT PROGRAMME ATTENDED

- "Induction Training Programme", LBS Institute of Technology for Women, Poojappura, Trivandrum
- "Simulation Software and Loco Engineering", Department of Electrical & Electronics Engg., LBS College of Engg., Kasaragod
- "Research Orientation Programme on Numerical Simulation", Department of Mechanical Engg., Govt. Engg. College Batron Hill, Thiruvananthapuram
- "Automobile Technology-Status and Challenges", Department of Mechanical Engg., College of Engg., Thiruvananthapuram
- "Research Methodology", Department of Mathematics, LBS Institute of Technology for Women, Poojappura, Thiruvananthapuram
- "Information Technology and Green IT", TATA Constancy Services
- "Trends and advancements in Aerospace Engg.", Department of Mechanical Engg., SCT College of Engg., Pappanamcode, Thiruvananthapuram
- "Outcome Based NBA Accreditation ", Department of Computer Science & Engg., LBS Institute of Technology for Women, Poojappura, Thiruvananthapuram
- "Pedagogical Training.", Teaching Learning Centre., Indian Institute of Technology, Madras
- "Research Methodology for Science, Engineering & Management.", Department of Mechanical Engg., National Institute of Technology, Calicut
- "LATEX- A Tool for Effective Documentation.", Department of Electronics & Communication Engg., LBS Institute of Technology for Women, Poojappura, Thiruvananthapuram
- "Engineering Graphics.", Department of Mechanical Engg., Marian Engg. College, Thiruvananthapuram
- "Timeless Leadership-Ignite the Spark in your Heart.", Translational Research & Professional Leadership Centre (TPLC), Govt. Engg. College Batron Hill, Thiruvananthapuram
- "Installation Testing and Maintenance of Solar Thermal Systems." , APEX Hi- Tech Institute, Govt. of India, Bangalore
- "Technology Enabled Teaching & Learning." , Indian Institute of Management, Kozhikode
- "Research Scope in Thermal Engineering." Department of Mechanical Engg., Government College of Engg. Salem
- "Solar Energy Technologies.", GIAN Course, Department of Mechanical Engg., National Institute of Technology, Tiruchirappalli
- "Recent Trends in Solar Energy and Instrumentation.", Department of Mechanical Engg., National Institute of Technology, Tiruchirappalli
- "E-Vehicle: A Green Approach for Sustainable Development (EV-GASD'19).", Department of Electrical & Electronics Engg., Mar Baselios College of Engg. & Technology, Nalanchira, Thiruvananthapuram
- "E-Mobility.", Department of Mechanical Engg. & Division of Electrical Engg., SCT College of Engg. & Technology, Pappanamcode, Thiruvananthapuram

- "Combustion Generated Pollution Control.", Department of Mechanical Engg., National Institute of Technology, Tiruchirappalli
- "Emerging Trends in Alternative Energy Resources." Department of Mechanical Engg., St. Thomas Institute for Science & Technology. Trivandrum
- "Machine Learning and Deep Learning using Python." Department of Electronics & Communication Engg., St. Thomas Institute for Science & Technology. Trivandrum
- "Outcome Based Education and Essential AI Tools for Teachers." The Internal Quality Assurance Cell, Department of Computer Science, St. Albert's College (Autonomous) Ernakulam in association with The Kerala State Higher Education Council (KSHEC).
- "Research Methodology using ChatGPT & AI tools and Funding Opportunities for Research." PG Department of Computer Applications, The Internal Quality Assurance Cell and Lincoln University College Marian Research Centre (LUC MRC) of Marian College (Autonomous in association with The Kerala State Higher Education Council (KSHEC).

PUBLICATIONS

- "Assessment of gasoline consumption and greenhouse gas emission reduction on using battery electric two-wheeler in India", Sajan Jerome, M Udayakumar. Journal of the Brazilian Society of Mechanical Sciences and Engineering. (2021) DOI: [10.1007/s40430-020-02756-x](https://doi.org/10.1007/s40430-020-02756-x)
- "A Study on Cost Effective Electric Vehicle Charging Infrastructure in India Through Open Access Power Procurement", Sajan Jerome, M Udayakumar. Arabian Journal for Science and Engineering. (2021) DOI: [10.1007/s13369-021-06012-9](https://doi.org/10.1007/s13369-021-06012-9)
- "An Economic Feasibility Study of Electric Vehicle Charging Stations in India", Sajan Jerome, M Udayakumar. In: Krishna, V., Seetharamu, K.N., Joshi, Y.K. (eds) Recent Advances in Hybrid and Electric Automotive Technologies. Lecture Notes in Mechanical Engineering. Springer, Singapore. (2022) DOI: https://doi.org/10.1007/978-981-19-2091-2_17
- "Theoretical Studies of Single Stage Orifice Pulse Tube Refrigerator", Proceedings of VII National Conference on Technological Trends 2006, (205-209), College of Engg., Thiruvananthapuram
- "A Comparison on Total Cost of Ownership for Internal Combustion Engine and Battery Electric Two-Wheelers in India", Proceedings of National Conference on Advances in Energy Efficient Technologies (NCAEET-2019), (205-209), Marian Engineering College., Thiruvananthapuram
- "Design and development of multi-functional wheelchair for physically challenged Persons", Proceedings of Second International Conference on Recent Advancements in Engineering & Technology (ICORETech-2024), LBS College of Engineering, Kasaragod, 8th to 9th February 2024
- "Automated crack detection system for railway tracks", Proceedings of Second International Conference on Recent Advancements in Engineering & Technology (ICORETech-2024), LBS College of Engineering, Kasaragod, 8th to 9th February 2024

ADMINISTRATIVE WORKS UNDERTAKEN

- Staff Advisor for class: LBSCE Kasaragod, LBSITW Thiruvananthapuram
- Faculty in Charge: Road Safety Club, LBSCE Kasaragod
- Faculty in Charge: Machine Shop, LBSCE Kasaragod
- Resident Tutor: LBSCE Kasaragod
- Secretary, Staff Club: LBSCE Kasaragod
- Faculty in Charge, Fluid Mechanics & Machinery Lab: LBSITW Thiruvananthapuram
- Assistant Placement Officer: LBSITW Thiruvananthapuram
- Member, Anti Ragging Squad: LBSITW Thiruvananthapuram
- Member, Time Table Committee: LBSCE Kasaragod, LBSITW Thiruvananthapuram
- Nodal Officer, Equity Action Plan, TEQIP II: LBSITW Thiruvananthapuram
- Member, University Exam Cell: LBSITW Thiruvananthapuram
- Member, Question Paper Scrutiny Committee: LBSITW Thiruvananthapuram
- Member, Committee for Building and Civil Work: LBSITW Thiruvananthapuram
- Co-Ordinator, Anti Ragging Squad: LBSITW Thiruvananthapuram
- Member, Internal Examination Cell: LBSCE Kasaragod

- Member, Career Guidance and Placement Cell: LBSCE Kasaragod
- Member, Internal Quality Assurance Cell: LBSCE Kasaragod
- Member, Grievances and Appeal Committee: LBSCE Kasaragod
- Member, Industry Institute Interaction Cell: LBSCE Kasaragod
- NSS Programme Officer: LBSCE Kasaragod
- Convener, Canteen Committee: LBSCE Kasaragod
- Faculty in Charge, Heat Transfer Lab: LBSCE Kasaragod
- Convener, ASAAD Sena: LBSCE Kasaragod

CONTRIBUTION TO SOCIETY

- Successfully Co-ordinated a seven-day special camp from 23/12/2022 to 29/12/2022 for the NSS volunteers of LBS College of Engineering, Kasaragod held at Govt. Mappila L P School, Muliya, Kasaragod. The camp involved the cleaning activities of the school campus Govt. Mappila L P School, awareness programs against drug abuse for the local people, collection of e-waste from the house holds of Muliya Grama Panchayat, cleaning of a canal passing through Ward numbers 1 and 2 of the Muliya Grama Panchayat.
- Successfully Co-ordinated a seven-day special camp from 22/12/2023 to 28/12/2023 for the NSS volunteers of LBS College of Engineering, Kasaragod held at Govt. HSS Patla, Madhur, Kasaragod. The camp involved the cleaning of the school campus of Govt. Higher Secondary School and Govt. High School Patla, awareness programs against drug abuse for the local people, initiated "Sneharaman" project (a flagship program under NSS) at Madhur Grama Panchayat.