

MUHAMED SAJEER K

M.Phil., M.Sc., B.Ed., SET, Ph.D. Research Scholar

Lecturer in Physics

Profile

Mr. Muhamed Sajeer K is an accomplished Physics educator, researcher, and academic administrator with over **15 years of experience** in teaching, research, student mentoring, and institutional administration. He is currently serving as **Lecturer in Physics at SSM Polytechnic College, Tirur, Kerala**. Throughout his career, he has been committed to academic excellence, innovative teaching practices, scientific research, and holistic student development.

He began his academic career as a **Lecturer in Physics at Majlis Arts and Science College, Valanchery**, where he taught undergraduate Physics courses and guided students in both curricular and co-curricular activities. He later joined **M.E.S. College of Engineering, Kuttippuram**, where he served as **Assistant Professor in Physics** for more than a decade. During this period, he played a significant role in teaching Engineering Physics, supervising laboratories, mentoring students, coordinating academic activities, and contributing to various administrative and quality assurance initiatives.

Mr. Sajeer has consistently demonstrated excellence in classroom teaching by integrating ICT-enabled learning, outcome-based education, laboratory-oriented instruction, and student-centered pedagogical approaches. His passion for teaching extends beyond academics, as he actively encourages students to develop scientific curiosity, analytical thinking, research aptitude, and professional ethics.

Educational Qualifications

- **Ph.D. (Research Scholar) in Physics**
Vels University, Chennai
- **M.Phil. in Physics**
Bharathidasan University, Tiruchirappalli, Tamil Nadu
- **Master of Science (M.Sc.) in Physics**
Aligarh Muslim University, Aligarh, Uttar Pradesh
- **Bachelor of Science (B.Sc.) in Physics**
University of Calicut, Kerala
- **Bachelor of Education (B.Ed.) in Physical Science**
University of Calicut, Kerala
- **State Eligibility Test (SET) Qualified**
Government of Kerala

Professional Experience

Lecturer in Physics

SSM Polytechnic College, Tirur, Kerala

Present Position

- Teaching Diploma Engineering students in Physics.
- Conducting laboratory sessions and practical demonstrations.
- Mentoring students for academic excellence and professional development.
- Participating in curriculum implementation, institutional development, and accreditation activities.

Assistant Professor in Physics

M.E.S. College of Engineering, Kuttippuram, Kerala

January 2011 – July 2021

- Taught Engineering Physics to undergraduate engineering students.
- Managed Physics laboratories and experimental learning.
- Developed course materials, lesson plans, and laboratory manuals.
- Guided student projects and academic activities.
- Organized seminars, workshops, social outreach programmes, and cultural events.
- Participated actively in academic administration and institutional quality improvement.

Lecturer in Physics

Majlis Arts and Science College, Valanchery, Kerala

July 2009 – January 2011

- Taught undergraduate and post graduate Physics courses.
- Served as Student Advisor and mentor.
- Conducted practical sessions and examinations.

HSA and HSST (Physics)

BYKVHSS, Valavannur.

July 2021- July 2026

Graduate Trainee

HLL Lifecare Limited, Thiruvananthapuram

Worked in Quality Control Laboratory involving analysis of raw materials, chemicals, boiler water, process water, latex compounds, and sophisticated analytical instruments including spectrophotometers, viscometers, pH meters, melting point apparatus, and other laboratory equipment.

Research Profile

Mr. Sajeer's research interests are primarily focused on **Crystal Growth and Materials Science**, particularly the synthesis and characterization of functional crystalline materials for optical and electronic applications.

His areas of research include:

- Crystal Growth Techniques
- Materials Characterization
- Optical Materials
- Dielectric Studies
- Nonlinear Optical Materials
- Semiconductor Physics
- Functional Materials

His research contributions include:

- International Journal Publications
- Papers presented at International Conferences
- Papers presented at National Conferences
- More than four years of active research experience

Areas of Teaching

- Engineering Physics
- Applied Physics
- Materials Science
- Crystal Growth
- Semiconductor Physics
- Engineering Mechanics (Basic Concepts)
- Modern Physics
- Optics
- Waves and Oscillations
- Electronics
- Laboratory Physics

Administrative Responsibilities

Throughout his academic career, he has successfully handled several important academic and administrative positions including:

- Programme Officer, National Service Scheme (NSS)
- Convener, Student Grievance Redressal Cell
- First Year Academic Coordinator
- Staff Advisor
- Student Advisor
- Question Paper Setter
- University Examination Valuation Member
- Organizer of Technical, Social and Cultural Programmes
- Academic Mentor

Professional Contributions

- Member of Question Paper Setter Panel
- University Answer Script Evaluator
- Academic Coordinator
- Student Mentor and Counselor
- Laboratory Coordinator
- Organizer of Academic Seminars, Workshops and Extension Activities

Research and Professional Interests

- Crystal Growth and Characterization
- Advanced Functional Materials
- Physics Education
- Outcome-Based Education (OBE)
- Engineering Education
- Scientific Research
- Laboratory Development
- Student Mentoring
- Academic Leadership

Technical Skills

- ICT-enabled Teaching
- Laboratory Instrumentation
- Scientific Documentation
- Academic Content Development
- Data Analysis and Presentation

Languages Known

- English
- Malayalam
- Hindi
- Arabic

Vision

Mr. Muhamed Sajeer K believes that quality education is the foundation of societal progress. His mission is to inspire students through innovative teaching, meaningful research, and value-based education while contributing to institutional excellence and nurturing scientifically competent, ethically responsible, and socially committed professionals.