

Habeeb R. Kallikkal, PhD

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Professor (Grade-II)

(Chemistry)

Highly motivated teacher with 20 years experience in teaching chemistry at higher education level. Served as faculty member in India and Saudi Arabia. Headed academic departments for 10 years and organized training program and short courses for teachers. Experienced in developing syllabus, teaching materials and evaluation tools. Has been involved in material science research and has published papers in peer reviewed international journals.

Experience:

Professor. Seethi Sahib Memorial Polytechnic College, Tirur, Kerala, 2013-present

- Taught applied chemistry theory and practical's for engineering students
- Headed the applied chemistry faculty team.
- Co-ordinated the student mentoring program
- Organized faculty development program funded by Government of India
- Presented papers in national and international conferences.
- Involved in nanomaterials research

Head of the Department. Higher Institute for Plastics Fabrication, Riyadh, Saudi Arabia, 2008-2013

- Monitored the academic activities at the department
- Imparted training program for faculty members
- Arranged motivational program for trainees
- Provided leadership for faculty in developing strong and attractive curricula
- Provided constructive suggestions to the institute management on quality enhancement
- Involved in the institute accreditation process

Selected Activities since 2010

- Attended around 18 National & International Seminars
- Presented papers in 6 National/International Conferences
- Attended as resource person in the Train the Trainer Programme for faculties at Higher Institute for Plastics Fabrication, Riyadh, Saudi Arabia
- Attended a seminar on Advanced Polymeric Materials at Saudi Petrochemical Development Co-operation, Tokyo, Japan
- Served as External Resource person on Students Mentoring at various professional colleges
- Delivered training Programme to school teachers on Project Based Learning, Flipped Class Room & Impact of AI on Education.
- Attended training in ISO/IEC 17025: 2005 Internal Auditing, Conducted by National Inspecting and Technical Testing Co.Ltd (FAHSS/TUV), Saudi Arabia
- Published Book in "Basic Plastics"
- Published Papers in Peer Reviewed International Journals

Paper Presentations-National Level

- **Stem education: Strategies for Enhancing Essential Skills in School Students**, First Kerala School Education Congress 2023, SCERT, Kerala (2023)
- **Students Self Motivation Deficit and its Impact on Employability**, National Seminar on *Importance of Skills Education* at State Institute for Technical Teachers Training & Research, Kerala.
- **Hybrid Learning: Essential Pedagogical Modifications for Effective Teaching-Learning Processes at Tertiary Level**, National Conference on Engineering Education, National Institute for Technical Teachers Training & Research, Kolkatta (2021).
- **Learning for Understanding: Towards Developing Employability Skills**, National Conference on Curriculum Innovations and Challenges in Technical Education at National Institute for Technical Teachers Training & Research, Chandigarh.
- **Towards Inculcating Entrepreneurship Culture Among Technical Students**, National Seminar on *Creativity, Innovation & Entrepreneurship* at State Institute for Technical Teachers Training & Research, Kerala.

Paper Presentations-International Level

- **Mentoring: A tool for Professional & Ethical Accomplishment**, International Conference on Existence & Expression: Science, Philosophy and Art Organized by MES Mampad College(Autonomous), Kerala

Staff Development Programme Co-ordinated

- AICTE-ISTE Sponsored 6 days Faculty Development Programme(FDP) on **Planning & Preparation for Teaching** for Technical Teachers
- National Institute for Technical Teachers Training & Research, Chennai, sponsored, 5 days FDP on **Life Skills** for Technical Teachers
- Fifteen days teacher training programme for teachers at BenchMark International School, Tirur

Invited Lectures

- **Future Readiness: Bridging Your Major with Tomorrows Challenges**, Scholar Mentor Programme for Advanced Learners, Al-Shifa College of Arts and Science, Perinthalmanna, Kerala.
- **Quality Assurance & Technical Education Leadership**, Higher Education Leadership Summit, at Al-Shifa Arts & Science College Perinthalmanna 2023 in Collaboration with Kerala Higher Education Council.
- **Creativity & Lateral Thinking**, for engineering teachers in FDP sponsored by NITTTR and organized at Seethi Sahib Memorial Polytechnic College, Tirur
- **Outcome Based Education**, for engineering teachers in FDP sponsored by AICTE-ISTE and organized at Seethi Sahib Memorial Polytechnic College, Tirur
- **Teaching –Learning Process**, for engineering teachers in FDP sponsored by AICTE-ISTE and organized at Seethi Sahib Memorial Polytechnic College, Tirur
- **Student Mentoring**, for the faculty members at Government Polytechnic College, Perinthalmanna.

- **Plastics for Youth**, for students from various Saudi colleges, at Higher Institute for Plastics Fabrication, Riyadh, Saudi Arabia
- **Lesson Planning** for faculty members at Higher Institute for Plastics Fabrication, Riyadh, Saudi Arabia
- **STEM Curriculum** for teachers of BenchMark International School, Tirur, Kerala
- **Strategic Plastics** in a short course on Advanced Plastics Materials, for Engineers and Technicians from Saudi Petrochemical Industries, organized at Higher Institute for Plastics Fabrication, Riyadh, Saudi Arabia

Publications

- Cure Characteristics and Mechanical Properties of Styrene Butadiene Rubber/ Acrylonitrile Butadiene Rubber Blends: K. Habeeb Rahiman, G. Unnikrishnan, A. Sujith, C.K. Radhakrishnan; Materials Letters; Volume-59; Page 633-639
- The Behaviour of Styrene Butadiene Rubber/Acrylonitrile Butadiene Rubber Blends in the Presence of Chlorinated Hydrocarbons: K. Habeeb Rahiman, G. Unnikrishnan; Journal of Polymer Research; Volume-13; Page; 297
- Basic Plastics, Plastics Fabrication, Volume 2, 1st Edition: ISBN : 978-603-504-167-6; K. Habeeb Rahiman, Virgilio Calpe Jr, Pradeep Bhaskar
- Dynamic Mechanical Properties of Styrene Butadiene Rubber/ Acrylonitrile Butadiene Rubber Blends: Emerging Trends in Chemistry (EMTIC-2005) at University of Calicut, Kerala, India
- Refinement of contaminated water using various nanomaterials; Ecologies of the new: Matter, Mind and Body, volume-1, ISBN: 978-93-528188-8-4

Research Interests

- Nanomaterials
- Polymer composites
- STEM Education at Schools
- AI Integrated Education

Education

- PhD in Chemistry, with Polymer Blends as Specialisation; **National Institute of Technology (NIT), Calicut, Kerala, India- 18/01/2008**
- M.Sc in Chemistry, **University of Calicut, Kerala, India, April 1997**
- Bachelor in Education, with Physical Science as Specialisation, **University of Calicut, January 1998**