



St Thomas College, Kozhencherry

Established in 1953 | Reaccredited by NAAC with Grade A | ISO 9001:2015 Certified | ISO 21001:2018 Certified

Affiliated to Mahatma Gandhi University, Kottayam

www.stthomascollege.info

Kozhencherry P.O., Kerala State, Pincode: 689641 Phone: +91-9497445575, 0468-2214566

Faculty Profile

Dr. Lekha P K

Assistant Professor

Department of Chemistry

Mobile No. +91 8921167253

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Personal Details

Date of Birth	20.05.1983
Nationality	Indian
Marital Status	Married
Permanent Address	Varamannil House, Eraviperoor P O, Thiruvalla PO: 689542, Pathanamthitta, Kerala, India.

Higher Education

2003 – 2005	M.Sc CHEMISTRY, St.Thomas College Pala.
2000 – 2003	B.Sc CHEMISTRY, DB College Parumala.

Professional Position

1st June 2015 to present	Assistant Professor, Department of Chemistry, St Thomas College, Kozhencherry
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Teaching Experience

2015 – 2023	Undergraduate students
	Postgraduate students

Courses Taught

M.Sc	Organic Reaction Mechanism
	Modern analytical Techniques and Green Chemistry
	Organometallic Chemistry
	Organic Chemistry Practicals
B.Sc	Organic Chemistry
	Co-Ordination Chemistry

Courses Taught (continued)

- Food Additives (Open Course)
- Human Rights
- Organic Chemistry Practicals
- Volumetric Analysis
- Inorganic Chemistry Practicals
- Physical Chemistry Practicals

Awards and Achievements

- December 2007 CSIR-UGC NET
March 2007 GATE

Research Experience

- Postdoctoral Research Fellow (Oct 2012 – Aug 2014)**, Project Title: Diagnosis of lung cancer from exhaled breath with silicon based biophotonic device.
Adviser: Prof. Suresh Valiyaveetil, Department of Chemistry, National University of Singapore (NUS), Singapore
- Doctor of Philosophy (2008-2012)**, Thesis Title: Design, synthesis and photophysical study of tunable light emitting systems based on peripherally modified PAMAM dendrimer.
Adviser: Dr. E. Prasad, Department of Chemistry, Indian Institute of Technology Madras (IITM), India

Areas of Specialization and Interest

- Photochemistry
- Hyperbranched Polymers


Research Publications

- Aggregation controlled excimer emission from anthracene modified PAMAM dendrimers..**
P. K. Lekha and E. Prasad. Chem. -Eur. J., Vol. 16, 3699-3706, 2010.
- Tunable Emission of Static Excimer in a Pyrene- Modified Polyamidoamine Dendrimer Aggregate through Positive Solvatochromism..**
P. K. Lekha and E. Prasad. Chem. -Eur. J., 17 , 8609-8617, 2011.
- Utilising Dendritic Scaffold for Feasible Formation of Naphthalene Excimer, .** P. K. Lekha, T. Ghosh, E. Prasad. J. Chem. Sci., 123, 919-926.

Faculty Development Programmes Attended

- August 2022 Refresher Course in Material Science, UGC HRDC, University of Kerala.
October 2019 Orientation Course, UGC ASC, University of Kerala.

Skills

Languages known  English, Malayalam, Tamil, Hindi.