



# 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](http://www.stthomascollege.info)

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## Faculty Profile

### Dr. Sudheesh K V

Assistant Professor

Department of Chemistry

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### Personal Details

Date of Birth 05.11.1988

Nationality Indian

Permanent Address Vadakkedathu House, Ponnammavayal, Padiyottuchal PO : 670353, Kannur, Kerala, India.

### Higher Education

2011 – 2018 **Ph. D Chemical Sciences**, Academy of Scientific and Innovative Research, CSIR-NIIST, Trivandrum.

2009 – 2011 **M. Sc Chemistry**, Cochin University of Science and Technology.

2006 – 2009 **B. Sc Chemistry**, Payyanur College, Payyanur, Kannur.

### Professional Position

13 March 2020 to present **Assistant Professor, Department of Chemistry, St Thomas College, Kozhencherry**

### Teaching Experience

2019 – 2023 **Undergraduate students**

**Postgraduate students**

### Courses Taught

M.Sc **Statistical Thermodynamics**

**Coordination Chemistry**

**Analytical Procedures**

B.Sc **Analytical Chemistry, Chemical Bonding**

## Courses Taught (continued)

- Physical Chemistry
- Inorganic Chemistry

## Awards and Achievements

- December 2010     Junior Research Fellowship (JRF) and National Eligibility Test (NET) for college lecturer, from Council of Scientific and Industrial Research (CSIR), Government of India.
- July 2013         Senior Research Fellowship (SRF), CSIR, Government of India

## Research Experience

- Research Scholar , 1. July 2011 – June 2013: Junior Research Fellow (JRF) ; 2. July 2013 – June 2016: Senior Research Fellow (SRF) ; 3. July 2016 – December 2018: Project Assistant Gr. (II) at the Photo-sciences and Photonics Section, CSIR-NIIST, Trivandrum, Kerala, India  
Guide: Dr A Ajayaghosh, Former Director, CSIR-NIIST, Industrial Estate, Pappanamcode, Thiruvananthapuram  
Area of Research: Photochemistry

## Areas of Specialization and Interest

- Design and Synthesis of Organic Fluorophores for Sensing and Imaging Applications
- Development of Efficient Photosensitizers for PDT Applications
- Design and Synthesis of Water Soluble Theranostic Agents
- Functional Modifications in Cyclometalated Iridium(III) Complexes
- Organelle Targeted Imaging and Therapy

## Research Publications

- A protein–dye hybrid system as a narrow range tunable intracellular pH sensor .  
P. Anees, Karivachery V. Sudheesh, P. Jayamurthy, Arunkumar R. Chandrika, Ramakrishnapillai V. Omkumar, A. Ajayaghosh. Chem. Sci., 2016,7, 6808-6814
- An Unsymmetrical Squaraine Dye based Chemical Platform for Multiple Analyte Recognition .  
Divya S. Philips, Samrat Ghosh, Karivachery V. Sudheesh, Cherumuttathu H. Suresh, A. Ajayaghosh. Chem. -Eur. J., 2017,23, 17973-17980
- pH-Controlled Nanoparticles Formation and Tracking of Lysosomal Zinc Ions in Cancer Cells by Fluorescent Carbazole-Bipyridine Conjugates . . Karivachery V. Sudheesh, Manu M. Joseph, Divya S. Philips, Animesh Samanta, Koustabh K. Maiti, A. Ajayaghosh. ChemistrySelect, 2018, 3, 2416 – 2422.
- A Cyclometalated Ir(III) Complex as Lysosome Targeted Photodynamic Therapeutic Agent for Integrated Imaging and Therapy in Cancer Cells. Karivachery V. Sudheesh, Prasad S. Jayaram, Animesh Samanta, Kochan S. Bejoymohandas, Ramapurath S. Jayasree, A. Ajayaghosh. Chemistry A European Journal, 2018, 24, 10999 – 11007.

## Project Guidance

- M.Sc     Parvathy Anilkumar, Determination of quality of phosphoric acid (2019-21 Batch)

## Project Guidance (continued)

- **Riya Rajan.**, *Analysis of physiochemical parameters and heavy metal contents from different parts of Meenachil River* (2019-21 Batch)
- **Niviya Benny**, *The theoretical study of cyanide and trifluoromethyl derivative of triazacoronene for the application of drug delivery system* (2020-22 Batch)
- **Bismi Salim**, *The theoretical studies of amine and hydroxyl derivative of triazacoronene system for solar cell applications* (2020-22 Batch)
- B.Sc ■ **Devika D, Emy Thankam Abraham, Bhavana Babu**, *Comparative study and qualitative analysis of soft drinks available in markets* (2018-21 Batch)
- **Priya C. P., Silpa K mathew, Sreyas M S**, *Study of adulteration in food system* (2019-22 Batch)
- **B. Sc. Chemistry** , *MOOC on Organic Farming* (2020-23 Batch)

## Faculty Development Programmes Attended

- 23- 28 May 2020     ■ Short Term Faculty Development Programme on Chemistry, Payyanur College, Kannur University and KSHEC.

## Invited Talks

- Resource Person, Seminar on "The Chemical World" as a part of celebrating National Chemistry Week on 4th November, 2020 at the Department of Chemistry, T. K. Madhava Memorial College, Nangiarikulangara.
- Resource Person, Seminar on "Film and Society" for NSS volunteers of CMS College Kottayam during seven days special camp on 24th December 2020. .
- Resource Person, Seminar on "Socio-Political Space in Cinema" for NSS volunteers of Union Christian College, Aluva on 9 January 2021.
- Resource Person, Workshop on "Co-ordination Chemistry" Curriculum enrichment Programme series, for Post Graduate Students , Sree Sankara Vidyapeetom College, Valayanchirangara on 23 September 2021.
- Resource Person,"Media Literacy Campaign for College Students" at St. Thomas College, Kozhencherry organized by Website and Social Media Committee on 23 March 2022.