



# 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)

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

## Faculty Profile

### Dr. Jijoy P Mathew

Assistant Professor

Department of Physics

Mobile No. +91 9446195900

✉ [jijoypmathew@stthomascollege.info](mailto:jijoypmathew@stthomascollege.info)



### Personal Details

Date of Birth	15.02.1983
Nationality	Indian
Marital Status	Married
Permanent Address	Puthookallel House, Karimpanakuzhy, Pathanamthitta P.O 689645 Pathanamthitta, Kerala, India .

### Higher Education

2018	Ph.D, Mahatma Gandhi University, Kottayam, Kerala.
2003-2005	M.Sc Physics, Mar Thoma College, Thiruvalla, Kerala.
2000-2003	B.Sc Physics, B A M College, Thuruthicad, Kerala.

### Professional Position

06 June 2019 to present	Assistant Professor, Department of Physics, St Thomas College, Kozhencherry
03 October 2011 to 31 July 2018	Assistant Professor, Department of Science and Humanities, MES College of Engineering and Technology, Kunnukara, Ernakulam

### Teaching Experience

2011 – 2018	Undergraduate students
2019 – 2023	Undergraduate students
2012 – 2023	Postgraduate students

## Courses Taught

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- M.Sc
  - Classical Mechanics
  - Statistical Mechanics
  - Digital Signal Processing
  - Nuclear Physics
- B.Sc
  - Material Science
  - Thermodynamics and Statistical Mechanics
  - Environmental Physics and Human Rights
  - Methodology and Perspectives of Physics
  - Modern Physics
  - Optics

## Other Important Responsibilities/Positions Held

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- Participated in the Question Bank Upgradation Initiative of Mahatma Gandhi University, Kottayam and Contributed to the Question Bank of IVth Semester PG CSS Physics Course. (During 2019-2020)
- Nodal Officer, State Central Scholarships
- Liaison Officer UGC-CSIR Scholarships
- Liaison Officer Research Advisory Committee
- President, Physics Association 2020 June- till date.
- Coordinator, Certificate Course in Nanoscience

## Areas of Specialization and Interest

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- Nanoscience
- 2D Materials

## Research Publications

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- **Effect of post thermal annealing on the structural and optical properties of ZnO thin films prepared from a polymer precursor.**  
Jijoy. P Mathew, George Varghese, Jacob Mathew Chin.Phys.B 21(078103)2012
- **Effect of doping concentration and annealing temperature on the structural and optical properties of Zn<sub>1-x</sub>Cu<sub>x</sub>O Films.**  
Jijoy. P.Mathew, George Varghese, Jacob Mathew SOP Transactions on Nanotechnology, 1(2374)2014
- **Structural and optical properties of Ni:ZnO thin films- Effect of annealing and doping concentration.**Jijoy. P.Mathew, George Varghese, Jacob Mathew, SOP Transactions on Applied Physics, 27(2372)2014
- **Effect of Cobalt Doping Percentage on Structural and Optical Properties of ZnO:Co Films Synthesized via Sol-Gel Method.**Jijoy. P.Mathew,Transactions on Innovations in Science and Technology, 5(49)2021

## Paper Presentations

- **Photoluminescence Properties of Co doped ZnO Thin Films: Effect of Doping Concentration and Annealing.** One day online International conference on “Zero Dimensional Materials” . Department of Physics, P C Jabin College, Huballi, Karnataka 27th August 2020.
- **Effect of Cobalt Doping Percentage on Structural and Optical Properties of ZnO:Co Films Synthesised via Sol-Gel Method .** International Conference on Recent Innovations in Science and Technology (RIST 2021). Ernad Knowledge City, Malappuram. 19th – 20th June 2021.
- **Effect of Anneling Period on Structural and Optical Properties of ZnO:Co Films Synthesised via Sol-Gel Method .** International Conference on Functional Materials for Advanced Technologies (ICFMAT-1). Central University of Kerala. 2-4 January 2023

## Faculty Development Programmes Attended

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|----------------------|--|
| 26June- 24 July 2020 | ■ Orientation ProgrammeRamanujan College, University of Delhi and MHRD.                      |
| 9- 15 September 2020 | ■ FDP on Research Ethics and Charecterisation Techniques in Material Science, PMMMNMMT, MHRD |
| 4 - 24 July 2021     | ■ Refresher Course in Recent Advance in Physics, UGC MHRD, STRIDE                            |

## Recent Seminars/ Conferences/ Workshops Attended

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|---------------------|---|
| 9 - 10 October 2020 | ■ International Web-Conference on “ Advanced Nanostructured Materials for Energy Generation, Storage and Smart Applications, Organized by Shardabai Pawar Mahila Arts, Commerce and Science College, Shardanagar, Baramati. |
| 27 August 2020      | ■ Online International Conference on “Zero Dimensional Materials”, Organized by PC Jabin Science College, Hubballi, Karnataka.  |
| 19-20 June 2021     | ■ International Virtual Conference Recent Innovations in Scienec and Technology (RIST 2021) Organised by Ernad Knowledge City, Malappuram   |
| 2-4 January 2023    | ■ International Conference on Functional Materials for Advanced Technologies (ICFMAT-1), Organized by Central University of Kerala .  |

## Recent Seminar/Conferences/Workshops Organized

- Coordinator, International webinar on “Gravitational Waves – A new window to the Universe” organized by the Department of Physics on October 28, 2020
- Coordinator, 3 Day workshop for Research Scholars organized by Research Advisory Committee, on 16th May-18th May 2022
- Coordinator, Workshop on Research and Publication Ethics organized by Research Advisory Committee, on 11 August 2022
- Coordinator, National Seminar on " Science and Technology for Sustainable Future"s organized by Department of Physics, on 4th March 2022
- Co convenor, National Seminar on " Advanced Materials and Applied Physics"s organized by Department of Physics, on 12th-13th January 2023