

## CURRICULUM VITAE

PAULRAJ RAJENDRAN Ph.D.  
Associate Professor of physics  
St Joseph's College  
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**Vision:** Forming integral human souls with ideal principles to enhance better social life.

**Mission:** logically linking Life logics with physics concepts.

### Areas of Research Interest:

Hazardous vapor sensors.

### Education:

- Ph.D. - Bharathidasan university Tiruchirappalli - Dec 2017.
- M.Phil. - Bharathidasan university Tiruchirappalli - April 1988.
- PGDCSA - Bharathidasan university Tiruchirappalli - April 1987.
- M.Sc. - Bharathidasan university Tiruchirappalli - April 1984.

Refresher courses completed.

1. Orientation course: Dec 26 – Jan 24,1989, Academic staff college, Bharathidasan University, Tiruchirappalli.
2. Refresher course on: "Radiation and its applications" Sep 06 –Sep 26, 1996, Academic Staff College, Bharathiar University Coimbatore.
3. Refresher course on:" UGC – Refresher Course in physics" Dec 21,2001 – Jan 10 2002, Department of Physics, Annamalai University, Chidambaram.
4. Refresher course on "Recent trends in crystal growth and characterization" Nov 17 – Dec 07,2004, Anna University, Chennai.

### Administrative Experience:

1. Assigned to monitor the construction process of St. Joseph's Institute of Management (**JIM**)during 2004-2006.
2. Placement coordinator of the college during 2013-2016.
3. In-Charge of department placement coordinator 2017- till date.
4. Member of departmental curriculum committee.

## Publications:

### International Journal Publications:

1. **Rajendran Paulraj**, Ganesh Kumar Mani, Lawrence Nallathambi, and John Bosco Balaguru Rayappan., "A Room Temperature Methanol Vapour Sensor Based on Polyaniline Nanoparticles". American Scientific Publishers - Journal of Nanoscience and Nanotechnology Vol. 15, 1–7, 2015.
2. **Rajendran Paulraj**, Prabakaran Shankar, Ganesh Kumar Mani, Lawrence Nallathambi, John Bosco Balaguru Rayappan, "Fabrication of PANI-ZnO Nanocomposite Thin Film for Room Temperature Methanol Sensor", International Journal of Materials Science: Materials in Electronics (JMSE), JMSE-D-17-00228.
3. **Rajendran Paulraj**, Prabakaran Shankar, Ganesh kumar Mani, Lawrence Nallathambi, and John Bosco Balaguru Rayappan, "PANI-CdO Nanocomposite Thin Films as a Room Temperature Methanol Sensor", Journal of ELECTRONIC MATERIALS, doi.org/10.1007/s11664-018-6485-1.

### Department responsibilities.

Class mentor for MCA 1985-1988.

Class mentor for PGDCA 1986-1987.

Class mentor for B.Sc. Physics (1989-2002, 2005-2008).

Class mentor for M.Sc. Physics (2005 – 2007, 2012-2014-, 2016).

### Specialized Teaching Courses – on campus

1. Solid State Physics.
2. Material Science.
3. Statistical Mechanics.
4. Analog Electronics.
5. Classical Mechanics.
6. Spectroscopy.
7. Computer Programming C, C++, Pascal.
8. Computer Architecture and Organization.
9. Microprocessor Programming and Interfacing.
10. Digital Electronics and Microprocessor.

### Students Guidance:

At least 25 M.Phil. thesis guided.