



**E.G.S. PILLAY ENGINEERING COLLEGE**  
**(An Autonomous Institution, Affiliated to Anna University,**  
**Chennai)**

**NAGAPATTINAM - 611002**

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**FACULTY PROFILE**



**Name** : M. Irshad Ahamed  
**Designation** : Associate Professor  
**Department** : Electronics and communication  
**Specialization** : Optoelectronics, Nanotechnology  
**Qualification** : B.Tech., M.Tech., Ph.D.  
**Date of Birth** : 07-12-1986  
**Date of Joining** : 28-06-2010

**ACADEMIC QUALIFICATION**

**Doctoral Degree**

Degree and Specialization : Ph.D., Semiconductor and Nano Photonics  
Year of Passing : June 2020  
Institution Name : Anna University

**Postgraduate Degree**

Degree and Specialization : M.Tech., Nanotechnology  
Year of Passing : May 2010  
Percentage/CGPA : 8.14  
Institution Name : Anna University Coimbatore  
Affiliation : Anna University Coimbatore  
Institute/University:

**Undergraduate Degree**

Degree and Specialization : B.E., ECE  
Year of Passing : 2008  
Percentage/CGPA : 7.70  
Institution Name : Bharathiyar college of Engineering and technology,  
Affiliation : Pondicherry University  
Institute/University:

## WORK EXPERIENCE AND POSITIONS HELD

Total Experience

Teaching **12**

Industry Experience

**Nil**

Research Experience **03**

## EXPERIENCE DETAILS

### Publications

#### Journal :

National - NIL

International -15

#### Conference

National -NIL

International -4

### List of publications

- ✓ M Irshad Ahamed, Mansoor Ahamed, Sathish Kumar, A. Sivaranjani  
“Comparative energy bandgap analysis of Zinc and Tin based Chalcogenide Quantum dots”2022. Revista Mexicana de fisica , 68 041601, 1–8 (SCI Expanded)
- ✓ P.J.S. Babu, T.S. Padmanaban, M.I. Ahamed, A. Sivaranjani, “Studies on copper indium selenide/Zinc sulphide semiconductor quantum dots for solar cell applications”, 2021, Chalcogenide Letters, 18, 11, pp. 701-715 (SCI- Expanded))
- ✓ M Irshad Ahamed, Mansoor Ahamed, A.Sivaranjani, S. Chockalingam  
“Energy Bandgap studies on copper chalcogenide semiconductor nanostructures using cohesive energy”, 2021, Chalcogenide Letters, 18, no. 5, pp. 245-253 (SCI- Expanded)
- ✓ M Irshad Ahamed, K Sathish Kumar, E.Edward Anand, A. Sivaranjani,  
“Optical Attenuation modelling of PbSexS1-x Quantum dots with Vegard’s law and Brus equation use”, 2020, Journal of Ovonic Research, 16, no. 4, pp. 245-252. (SCI- Expanded)
- ✓ M Irshad Ahamed, K Sathish Kumar, Studies on Cu<sub>2</sub>SnS<sub>3</sub> Quantum dots for O band wavelength detection, 2019, Materials science – Poland, 37, no. 2, pp. 225-229. (SCI-Expanded))
- ✓ M Irshad Ahamed, K Sathish Kumar “Modelling on electronic and optical properties of Cu<sub>2</sub>SnS<sub>3</sub> quantum dots for optoelectronic applications”, 2019, Materials science – Poland, 37, no. 1, pp. 108- 115. (Anna University Annexure -7795, (SCI-Expanded))
- ✓ M Irshad Ahamed, Mansoor Ahamed, E.Edward Anand, A. Sivaranjani, Modelling of Cu<sub>2</sub>SnSeS chalcogenide quantum dots for optoelectronic applications, Under review- Revista Mexicana de fisica (SCI Expanded)
- ✓ Geetha Gayathri, S. Vennila Preethi, M. Irshad Ahamed, A. Sivaranjani

"Cinnamon encapsulated ZnO nanoparticles for effective biomedical applications" Under Review- Journal of Nano Research (SCI-Expanded)

**Patent Published / Granted**

NIL

**Awards / Honors / Memberships**

NIL

**Research Interests**

Optoelectronics material modeling, fiber optic sources LEDs/Laser diodes modeling, O-band wavelength

**Contact Details**

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**Researcher Profile Page**

Google Scholar-

<https://scholar.google.com/citations?user=XEEqrWsAAAAJ&hl=en>

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