



DR S ALFRED CECIL RAJ

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Dean & Member Secretary - IQAC
Associate Professor of Physics
(Working since 1986)



SKILLS

- **CORE COMPETENCIES** : ICT-enabled Teaching, Research, Man Power Planning & Animation
- **STRENGTH:** Goal setting, Initiative & Innovative, Independent & Team person, Creative, Documenting, Generating Course Materials
- **DUTIES:** Administration, Teaching, Curriculum Designing, Guiding and Supervising: Theses & Dissertations, Mentoring & Counselling, Organizing and Manpower animation
- **COMPETENCIES:** Analytic aptitude, Problem solving, Teaching Physics courses with Mathematical orientation; Research in Solid State Physics - Crystal Growth

ADMINISTRATIVE DISTINCTION

- **Dean cum Member Secretary, Internal Quality Assurance Cell;** since 2012
- **Dean, Faculty of Sciences, St. Joseph's College** 2007- 2010
- **Additional Chief Supdt:** Company Secretaryship, India, Trichy Chapter 2000-03
- **Additional Chief Superintendent:** St. Joseph's Examinations College 2002
- **Additional Camp Officer:** Bharathidasan University, Tiruchirappalli 2 times
- **Chief / Chairman of UG & PG Board in Physics**

ASSESSEE / CONSULTANCY

- Indian Institute of Space Science and Technology, Trivandrum for the preparation of Self Study Report for NAAC, 2-5, Dec 2011.
- Pre-NAAC *cum* Academic Audit at Annai Velankanni College, Tholayavattam (2016)
- Pre-NAAC *cum* Academic Audit at KSR College of Arts & Science Thiruchengodu (2016).
- Pre-NAAC *cum* Audit at Muthiyammal Arts & Science College Nammakal (2015).
- Pre-NAAC *cum* Audit at Scott Christian College, Nagercoil (2014)
- Pre-NAAC *cum* Audit at PSG College of Arts & Science College Coimbatore(2013)
- Academic Audit, PSG Krishnammal College for Women Coimbatore(2013)
- Academic Audit, Ayya Nadar Janaki Ammal College ,Sivakasi (2016)
- External Expert for IQAC and NAAC Preparation, St. Mary's College, Thoothukudi (2016)
- Expert Member, Board of Studies in Physics and Electronics : Bharathidasan and Bharathiar Universities and many Affiliated Autonomous Colleges
- Doctoral Committee Member for Ph D scholars
- Member, IQAC, St. Joseph's College, Tiruchirappalli since 2006
- Academic Audit and Inventory Audit , St. Joseph's College, Tiruchirappalli since 2007
- Bharathidasan University Nominee in Faculty Recruitment Panel of AVVM Sri Pushpam

College (Autonomous), Poondi, 02-04-2016

- Member in Faculty Recruitment Panel of Syed Hameedha Arts and Science College, Kilakarai, 27-06-2016

RESEARCH OUTPUT

Specialization : Crystal Growth and Phonon Physics

Publications

- **48** research articles published in **referred journals**
- **h index: 4, citation index: 50**
- **5 Ph.D. Theses declared; 4 Scholars are underway; 40 M. Phil. Scholars supervised**
- **Executive Editor of RETELL** (campus Research Publications) 2007-2010

Extramural funded Projects (Rs. 21,68,000)

- DST, Rs.17,03,000/- 2016–18. Exploration of endowed properties of DAST NLO crystals for THz generators.
- DST, Rs.3,25,600/- 2014–15. Nonlinear optical effects of Organic materials stepping towards to Quantum Computing
- UGC, 1,40,500/- , 207-2009. Synthesis, structural and non-linear optical studies for the design of optoelectronic material using 4 aminopyridine.

Technical expertise

- Modern Optics and Quantum Physics, 23-Jan to 10-Feb-1995.
- Question Bank in Physics (Phase I, UGC Workshop. 30-Jan to 01-Feb, 1997.
- Statistical Physics, DST Sponsored Workshop 20.03 to 01.04.1997
- Question Bank in Physics (Phase II, UGC Workshop). 03-Feb to 06-Feb-1999.
- Functional Nanomaterials: Synthesis and characterization, FDP. 19–20, December 2011

Organizing Colloquia (Conference / Workshop / Seminar)

- Convener: 4-day Workshop - Capacity Building on e-content, 9th & 12th June 2016
- Convener: National conference on Higher Education in the Knowledge Age: Techno-Pedagogical Perspectives and Innovations, 24-25 Feb 2016
- Conducted the In-service Training to the Secondary Grade Science Teachers of Tiruchirappalli District **funded by TNSCST** from 6 -10 Jan 2009
- Conducted 3 days workshop for PG Physics Teachers funded by TNSCST
- Research Day Lectures for Physics Scholars was organized on 28 Jan 2012
- Organizing Secretary: **UGC Sponsored National Conference** on Higher Education and National Development: The Challenge of Expansion, Quality and inclusion conducted on 30 – 31 Jan 2009

Achievements / Awards / Recognition

- **Awards:** Dr. R. Srinivasamoorthy Cash Award for the best Research Publications by faculty of Physics during the year: 2008, 2009, 2010, 2011, 2012 & 2013
- **College Management Cash Award for the Book Writing:** 2008, 2015
- **Recognized by the College with Special Award for cent per cent attendance:** 2009,

2011, 2012, 2013, 2015

Books / Manuals / Course materials created

- Lab manual for PG Physics students titled **Advanced Physics Experiments/** 2005 ☞
- Course material for UG Physics titled **Mathematical Methods /** 2008
- **Appendix and Corrections & Modification** made in UG Physics Lab Manual – 2004
- Course material for PG Physics **Introduction to Tensor Analysis, General Theory of Relativity and Simulation Modeling /**2008
- **Winner in the Making:** An introduction to Soft Skills, Co-author Tiruchirappalli / 2013

Member : Indian Association of Crystal Growth

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