

The American College, Madurai
FACULTY PROFILE
(For IQAC)



Name : Dr.G.K.Priya Merline
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Date of Joining : 21.06.2019
Department : Physics
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I. Education Qualification:

Degree	Subject	College/University & Place	Year Completed
Ph.D	Physics	Anna University, Chennai	2019
M.Phil	Physics	Madurai Kamaraj University, Madurai	2007
M.Sc	Physics	The American College, Madurai	2006
B.Sc	Physics	The Yadava College, Madurai	2004

Specialization in Research:

Nonlinear optics, Crystal Growth, Nanomaterials

Research Interests:

Nonlinear optics, Crystal Growth, Nanomaterials

Any Other Work Experience:

Designation	Institution / Company	Year – From (month/year) To (month/year)
Assistant Professor	Jerusalem College of Engineering, Chennai	August 2006 to April 2018
Assistant Professor	The American College, Madurai	June 2019 to till date

Membership in Professional Bodies:

(Include Board of Studies/ journal/ article)

Positions held / currently holding in Professional Body	Year – From (month/year) To (month/year)
Member in the Indian Society for Technical Education (ISTE)	2011-Life time

Publications:

(List to be given with complete bibliography with impact factor if any) *mention: Peer Review Journals/ Non-Peer Review Journals/ e-Journals / Conference proceedings*

Articles Published in International Journals:

- A Paper titled "*Investigation on the crystal growth and characterization of an organometallic non-linear optical crystal - Antimony potassium tartrate* " was published in the Scopus indexed journal "**Optik**" (ISSN: 0030-4026) <https://doi.org/10.1016/j.ijleo.2015.09.247>
- A Paper titled "*Investigation on optical, thermal, dielectric and mechanical properties of Antimony potassium tartrate on L-alanine single crystals*" was published in the Scopus indexed "*Journal of materials science materials in electronics*" (ISSN: 0957-4522) <https://doi.org/10.1007/s10854-018-8519-0>

Conference / workshop/ Seminar Presentations:

Name of the Seminar/Conference/Symposia Workshop etc.,	Name of the Sponsoring Agency	Title of paper	Institution, Place and Date
National conference on Advanced Material Science - 2015		Ab-initio studies of L-Alanine organic molecule	Jerusalem college of engineering, Chennai on 22 nd July 2015 (ISBN : 978-81-89843-73-1).
National Conference on Nanomaterials (NCN 2017)		<i>Dielectric and mechanical properties of a non linear optical crystal: Antimony potassium tartrate</i>	Arignar Anna Arts College, Namakkal on 20-21 st July 2017. (e-ISSN : 2348-4470)
National Conference NCRNR 2012		<i>Synthesis and Characterization of Strontium Titanate using chemical Solution Deposition Method</i>	Anna University, Madurai Region on 24-25th August 2012 (ISSN: 2229-712X)

CONFERENCES ATTENDED:

- “National Conference on Nanomaterials (NCN 2017)” in Arignar Anna Arts College, Namakkal on 20-21st July 2017.
- National conference on “Emerging trends in Chemical Sciences” in Jerusalem college of engineering, Chennai on 6th January 2016.

- **“National Conference on Recent Advancement in Nanoscale Research (NCRNR 2012)” in Anna University, Madurai Region on 24-25th August 2012. • “Recent Trends in Crystal Growth” in Anna University Chennai on 30th March 2010.**

WORKSHOPS ATTENDED:

- **Workshop on ‘Low energy ion beam facility’ organized by Inter University Accelerator Centre, New Delhi on 03rd and 04th November 2015.**
- **National Workshop on “Materials in Research and development (NWMRD2014) in Jeppiar Engineering college on 28th July 2014**
- **“Asia –Pacific Workshop on Materials Characterization” in Anna University Chennai on 22nd-24th September 2011.**
- **Two day workshop on “Emerging Trends in nanotechnology Research, ETNR2011” in Jeppiar Engineering College on 20th and 21st July 2011.**
- **“International Workshop on Advances in Nanoscience and Technology” in Anna University Chennai on 28th to 30th October 2009.**
- **“DRDO sponsored Workshop on Nanotechnology” in SSN College of Engineering on 20th-21st August 2009.**

FDP ATTENDED:

- **Faculty development programme on “Recent advances in Physics” organized by SRM Institute of Science and Technology, (Ramapuram campus), Chennai on 03rd and 04th June 2020.**
- **Two-day online faculty development programme on “New Normal - Pedagogical tools for online teaching” on 11th and 12th May 2020.**

SEMINARS/WEBINARS ATTENDED:

- **International webinar titled "Experimental Biophysics-Organization of molecules in Biological Membranes" in St. Francis College for Women, Hyderabad on 03rd June 2020.**
- **Webinar On “Recent Advancements in Bio & Nanomaterials” organized by PG and Research Department of Physics, Vivekanandha College of Arts and Sciences for Women, Tiruchengode, Namakkal on 30th May 2020.**
- **National Webinar on “Figment of Imagination in Physics Via Simulations” organized by Sri GVG Visalakshi College for Women, Udumalpet on 29th & 30th May 2020.**

- “An Insight Into NAAC – RAF” in V.O.Chidambaram College on 22nd May 2020. • Energy, Energy Everywhere, How to harness it? in V.O.Chidambaram College on 21st May 2020.
- Webinar on “Supercapacitors: New Age Energy Storage Devices” in Ayya Nadar Janaki Ammal College, Sivakasi on 19 th May 2020.
- International Webinar on “Functional novel materials for Electrochemical sensors and Energy storage devices” in Thiagarajar College, Madurai in collaboration with Ming Chi University of technology, New Taipei City, Taiwan on 15 th May 2020.
- Webinar on “Micro & Nanotechnology and its Applications” organized by G.T.N. Arts College, Dindigul on 14th May 2020.
- International webinar on “Nonlinear Waves in Physics:From Solitary Waves and Solitons to Rogue Waves” organized by SRM Institute of Science and Technology, Ramapuram Campus, Chennai on 13th May 2020.
- Webinar on ‘Crystallography and its Applications’ organized by Department of Science & Humanities, Er. Perumal Manimekalai college of Engineering, Hosur - 635117 on 08th May 2020.
- Recent Trends in Advanced Materials” in MNM Jain College on 19th July 2013.

Research activities of the student under guideship

Title	M. Phil / M.Sc/ B.Sc	Please tick if it is collaborative
Study of Multipole method of TiSe ₂ using JANA	M.Sc	---
Study of Multipole method of MoS ₂ using JANA	M.Sc	---
Synthesis of Nb doped L-Valine single crystal	M.Sc	---
Synthesis of Nb doped L-Alanine single crystal	M.Sc	---
Characterization of L-Valine doped Nickel Chloride	M.Sc	---
Ab initio studies of L-Proline	M.Sc	---
Photocatalytic degradation of methyl orange dye in the presence of ZnO-Cr ₂ O ₃ nanocomposite	M.Sc	---
Green synthesis of iron nanoparticles	M.Sc	---

Any other activities / information / academic credentials you would like to mention:

- Organized National Conference on Advanced Materials Science on 22nd July 2015.
- Have been the Staff Coordinator for Youth Red Cross and Red Ribbon Club at Jerusalem college of Engineering, Chennai from the academic year 2006 to 2011. (5 years)
- Have served as an Assistant Staff Coordinator for National Service Scheme of the college during camps(3 years)
- Have organized several Blood donation camps and First Aid Training Programmes in college.
- Conducted several events on the event of Science day celebrations in college.
- Organized Extension activity programme in the Government higher secondary school, Chatrapatty, Madurai on 07th February, 2020.