

**The American College, Madurai**  
**FACULTY PROFILE**

**Name** : L.R.LATHA  
**Date of Joining** : 18.06.2018  
**Designation** : ASSISTANT PROFESSOR  
**Department** : PHYSICS (S.F.)  
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**I. Education Qualification:**

Degree	Subject	College/University & Place	Year completed
B.Sc.	Physics	M.K.University / N.M.Christian College, Martandam.	1992
M.Sc.	Physics	M.S.University / N.M.Christian College, Martandam	1994
M.Phil	Physics	Pondicherry University, Pondicherry.	1995
Ph.D	Physics	M.S. University, Tirunelveli	Pursuing

**Qualified State Level Eligibility Test (SET)**

**Research Interests:**

Material Science : Crystal growth and Nano particle

**Any Other Work Experience:**

Designation	Institution / Company	Period
Asst. Professor	The American College, Madurai	Since 2018
Asst. Professor	Madurai Institute of Engineering Technology, Pottapalayam, Sivagangai Dist.	2009-12
Lecturer	Thiagarajar College, Madurai	2008-09
Lecturer	Meenakshi College, Madurai	2007-08

Lecturer	Fatima College, Madurai.	2005-07
Lecturer	Madurai. Rose Mary College of Arts & Sciences for Women, Tirunelveli.	2002-03
Lecturer	Madurai. Sun College of Engineering, Nagercoil.	1999-2000
Lecturer	Sun Polytechnic, Soorapallam, Kanyakumari District	1997-99
Lecturer	Gomathi Ammal Polytechnic, Malayadikurichi, Sankarankovil.	1996-97

### Membership in Professional Bodies:

(Include Board of Studies/ journal/ article)

Positions held / currently holding in Professional Body	<b>Year – From (month/year) To (month/year)</b>
<b>INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE), NEW DELHI</b>	<b>Life Member from 2009</b>

### Conference / workshop/ Seminar Participated:

Date	Institution	Title of paper
4 <sup>th</sup> to 10 <sup>th</sup> July 2020	Sathyabama Institute of Science and Technology, Chennai.	Materials Technology Advancement in current scenario – MTACS2020
9 <sup>th</sup> July 2020	Kamaraj College, Thoothukudi.	Smart Materials and Applications
8 <sup>th</sup> July 2020	The American College, Madurai.	Spectroscopic Techniques-II
30 <sup>th</sup> June 2020	The American College, Madurai.	Transition to Online Teaching : Challenges and preparation
29 <sup>th</sup> June 2020	St. Joseph Institute of Technology	Materials Characterization Techniques
26 <sup>th</sup> June 2020	Aditanar College of Arts and Science, Tiruchendur.	Recent Advances in material Science and Technology
18 <sup>th</sup> June 2020	Kamaraj College, Thoothukudi.	Advances in Crystal growth and Nano materials

**Papers Presented in Conference / Seminar:**

<b>Name of the Seminar/Conference/Symposia Workshop etc.,</b>	<b>Title of paper</b>	<b>Institution, Place and Date</b>
International Conference o Recent Innovations in Modern Science and Technology (ICRIMST – 2024)	Mechanical and frequency-dependent dielectric properties of cesium sulphate-doped L-arginine hydrochloride crystals	Department of Physics, KPR Institute of Engineering and Technology, Coimbatore, on 9-11, January 2024.
International Conference on Advances in Physics (ICARP – 24)	Effect of Cesium sulphate on the Physico chemical properties of L-Arginine hydrochloride Single Crystal	Department of PG Physics, The American College, Madurai on 10 <sup>th</sup> and 11 <sup>th</sup> January 2024.
Two Days International Conference on Functional Materials (ICFM-23)	Effect of added impurities on the properties of LAHCL Single crystals	Wavoo Wajeeha Womens College of Arts and Science, Thoothukudi on 28.02.2023.
Two Days International Conference on Smart Materials and Biomolecules – (ICSMB'23)	Synthesis and Characterization of Bioabsorbent Capsulated Titanium Dioxide (TiO <sub>2</sub> ) Nanoparticles	Department of Physics, The American College, Madurai on 9 <sup>th</sup> and 10 <sup>th</sup> January 2023.
Two Days International Conference on Smart Materials and Biomolecules – (ICSMB'23)	Mechanical and Frequency Dependent Dielectric Properties of L-Proline Potassium Iodide (LPPT) Single Crystal	Department of Physics, The American College, Madurai on 9 <sup>th</sup> and 10 <sup>th</sup> January 2023.
Two days National Virtual Conference on “The Role of IQAC in quality Sustenance and Quality Enhancement in the Context of Revised Assessment and Accerediton Framework (RAAF) in Higher Education Institution (HEI)	ICT in Innovative Teaching	The MDT HinduCollege ,Tirunelveli on 15.09.2022.
International Conference on Emerging Materials and its Applications - ICEMA -2022	Optial and Structural characterization of an NLO crystal, L-Proline Pottassium Iodide	St.Xavier’sCollege, Palayamkottai on 1 <sup>st</sup> March 2022

Two days International Conference on Advanced Materials – ICAM- 2022	Growth and characterization of a second-order NLO crystal L-proline potassium iodide crystal	St.Joseph' College (Autonomous) Tiruchirappalli, Feb. 11-12, 2022
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### Research activities of the student under guideship

Title	M. Phil / M.Sc/ B.Sc	Please tick if it is collaborative
Characterization of Synthesized ZnO and Cu doped ZnO and its photo catalytic dye degradation activities	M.Sc.	
Synthesis of ZnO nanoparticles Cu- doped ZnO nano particles from leaf extract of Pelroseliumcrispum (PARSLEY) and Ecliptaprostrata (KARISALANKANNI)	M.Sc.	
Synthesis and characterization of Fe <sub>2</sub> O <sub>3</sub> (Hematite) nanoparticle.	M.Sc.	
Synthesis and characterization of optical properties of L-Arginin Cobalt Sulphate sigle crystal.	M.Sc.	
Green Synthesis of Bio obserable Magnesuim dioxide particles and its antibacterial activities	M.Sc.	
Structural analysis on perovskite solar cell	M.Sc.	
Synthesis and characterization of (TiO <sub>2</sub> ) nanoparticles using Rice husk	M.Sc.	
Behaviour of silica Nanoparticles synthesized from Oryza sativa as a photo catalytic and antibacterial agent	M.Sc.	

### Academic Activities:

- NAAC - worked for the department, Criterion - V.
- Organizing Committee member International Conference on Advances in Physics (ICARP – 24)
- UG Association President PHOBOS-24.
- Organizing Committee member International Conference on Advances in Physics (ICSMB'23)
- Organizing Committee member in science Exhibition.
- PG Association President REVERBERATE- 23.
- Participated in organising extension programme at Chatrapatti Higher Secondary School on 7.02.2020.