

**The American College, Madurai**  
**FACULTY PROFILE**  
**(For IQAC)**



**Name** : S. SHARMILA RUTH EBENEZAR  
**Date of Joining** : JUNE 21, 2019  
**Designation** : Assistant Professor (SF)  
**Department** : Physics  
**Phone with Ext. No** :  
**Mobile** : 8124012716  
**Email** : sharmilaruth@americancollege.edu.in

**Education Qualification:**

<b>Degree</b>	<b>Subject</b>	<b>College/University &amp;Place</b>	<b>Year Completed</b>
B.Sc.	Physics with Computer Application	Lady Doak College, Madurai	2013
M.Sc.	Physics	Lady Doak College, Madurai	2015
M.Phil	Physics	Lady Doak College, Madurai	2016

**Qualified Tamil Nadu State Eligibility Test (TNSET) for Assistant Professor in the subject Physical Science Conducted by Mother Teresa Women's University, Kodaikanal in the year 2018.**

**Specialization in Research:**

Nano Science

**Research Interests:**

Nano Science, Crystal Growth

**Work Experience:**

<b>Designation</b>	<b>Institution / Company</b>	<b>Year – From (month/year) To (month/year)</b>
Assistant Professor	The American College, Madurai	Since June 2019
Lecture	The American College, Madurai	July 2017 – April 2018
Assistant Professor	Lady Doak College, Madurai	June 2016 – Nov 2016

**Publications:****Articles Published in International Journals:**

<b>S.No.</b>	<b>Title of the paper</b>	<b>Title of the proceedings of the conference</b>	<b>Name of the conference</b>	<b>Year of publication</b>	<b>ISBN/ISSN number of the proceeding</b>
1	Synthesis and Characterization of Amino Acid Doped KBr Crystals by Slow Evaporation Technique	Proceedings of the International Conference on Physics of Advanced Materials and Molecules	International Conference on Physics of Advanced Materials and Molecules	2020	

**Articles published in National Journals:**

<b>S.No.</b>	<b>Title of the paper</b>	<b>Title of the proceedings of the conference</b>	<b>Name of the conference</b>	<b>Year of publication</b>	<b>ISBN/ISSN number of the proceeding</b>
1	Preparation and Characterization of Zn doped MnO <sub>2</sub> nano particles for studying the electro chemical capacitor behaviour	National Conference on Energy Science and Technology (NCEST-2020)	National Conference on Energy Science and Technology (NCEST-2020)	2020	978-81-933793-3-2
2	Effects of Amino Acids Doped with KCL Crystal by Slow Evaporation Techniques	24th National Seminar on Crystal Growth and Applications	24th National Seminar on Crystal Growth and Applications	2020	

**Conference / workshop/ Seminar Presentations:**

<b>Name of the Seminar/Conference/Symposia Workshop etc.,</b>	<b>Name of the Sponsoring Agency</b>	<b>Title of paper</b>	<b>Institution, Place and Date</b>
National Conference on Empowerment of Rural Communities Through Innovations in Science and Technology	Indian Science Congress Association, Kolkata	Synthesis and Characterization of Activated Carbon From Tea Waste Using Chemical Activating Agent	Kongunadu Arts and Science College, Coimbatore, 21 <sup>st</sup> and 22 <sup>nd</sup> February, 2020.
24 <sup>th</sup> National Seminar on CrystalGrowth and Applications	Indian Association forCrystal Growth	Effects of Amino Acids Doped with KCl Crystalby Slow Evaporation Technique	Periyar University, Salem, 3 <sup>rd</sup> – 5 <sup>th</sup> February, 2020.
International Conference on Physics of Advanced Materials and Molecules	Indian Spectro Physics Association	Effects of Amino Acids Doped with KBr Crystalby Slow Evaporation Technique	Dr. Ambedkar Government Arts College, Chennai, 30 <sup>th</sup> & 31 <sup>st</sup> January, 2020.
National Conference on “SmartMaterials”		Synthesis of AgNPs of <i>Cuminumcyminum</i> seedextract, Characterization and Antimicrobial Activity	Lady Doak College, Madurai, 23 <sup>rd</sup> & 24 <sup>th</sup> February, 2016
Regional Interactive Seminar“Thrust Area in Radio Astronomy”		Radio Telescope	Lady Doak College, Madurai, 3 <sup>rd</sup> March, 2015.
State Level Students’ Seminar		Evolution of Universe Theories and Experiments	Thiagarajar College (Autonomous), Madurai, 28 <sup>th</sup> February, 2014.

## Webinars Attended

<b>S.No.</b>	<b>Name of the Webinar, Title, Place, Date</b>	<b>National / International</b>
1.	Indian Summer School on “Crystal Growth”, SSN Research Centre, SSN Institution Chennai, 14.05.2020 to 23.05.2020	International
2.	International level Covid-19 Pandemic webinar on “Functional Materials for Electrochemical Sensors and Energy Storage Devices”, Thiagarajar College, Madurai, 15.05.2020	International
3.	Webinar on “Supercapacitors: New Age Energy Storage Devices”, Department of Physics, AyyaNadarJanakiAmmal College, Sivakasi, 19.05.2020	National
4.	Online training on "Mathematical Skills for Competitive Exams", PG and Research Department of Mathematics, Raja Doraisingam Government Arts College, Sivagangai, 25.05.2020 - 31.05.2020	National
5.	National Webinar on “Nonlinear Optical behavior of Nanomaterials”, Department of Physics, Lady Doak College, Madurai, 28.05.2020	National
6.	Series of online lectures in "Solid State Physics - Series 1: Electrons in Solids", Department of Theoretical Physics" University of Madras, Chennai, 01.06.2020 - 04.06.2020	National
7.	Webinar on “Emerging Trends in Nano-Materials for Microwave Integrated Electronics and Cancer Applications”, Department of Basic Sciences & Humanities, GMR Institute of Technology, Rajam, Andhra Pradesh, 04.06.2020	National
8.	Webinar on “Women at Risk Blossoms!”, Ladies club of the American College, Madurai, 09.06. 2020	National

9.	International webinar on “Recent Trends in Advance Material Science”, PGand Research Department of Physics, The American College, Madurai, 19.06.2020	International
10.	Webinar on "Preparation of Files for NAAC Accreditation", IQAC Cell, Providence College for Women, Coonoor, 18.07.2020	National

### Research activities of the student under guideship

Title	M. Phil /M.Sc/ B.Sc	Please tick if itis collaborative
Synthesis and Characterization of Activated Carbon From Tea Waste Using Chemical Activating Agent	M.Sc.	
Growth and Characterization of KBr – KCl Doped Zinc Sulphide Crystal	M.Sc.	
Synthesis and characterization of amino acid doped CuCl Crystals	M.Sc.	
Solar Tracker And Soil Moisture Sensor Using Arduino	B.Sc.	
Smart Dust Bin	B.Sc.	
Study on thermal properties of different bad conducting materials	B.Sc.	

### Academic Activities:

- NAAC - worked for the department criterion - III.
- Organizing Committee member ‘PHOBOS’ (ICM).
- Organizing Committee member ‘REVERBERATE’ (ICM).
- Organizing Committee member in science Exhibition.
- Class Academic advisor.
- Accompanied both UG and PG students for Industrial Visit during the year 2019 & 2022.
- Participated in organising extension programme at Chatrapatti Higher Secondary School on 7.2.2020.
- Served as an Organizing Secretary in National Level Online Quiz on “Higher Order Thinking Skills in Physics – HOTS QUIZ 2020”, organized by Department of Physics (SF), The American College, Madurai, held during 9<sup>th</sup> and 10<sup>th</sup> July 2020.