

Name	Irudaya Antonat Sophia
Qualification	M.Sc., M.Phil., Ph.D.,
Designation	Head & Assistant professor
Year of Joining	01-08-2014
Specialization	<ul style="list-style-type: none"> ▪ Polymer Chemistry ▪ Nanochemistry ▪ Electrochemistry
Email id	iasophiaraja75@gmail.com



Seminars/Workshops/FDP

Title of Workshop/ Seminar/ FDP/ Conferences	Type	Paper Presented/ Participated	Title of the Paper	Organized By	Date
Navigating Consultancy, Filing Patent and Designing Research Article: Insights and Strategies	National seminar	Participated	-	Marian Research Forum and IQAC, St.Mary's College (Autonomous), Thoothukudi	20.01.2024
11 th International Tamil Research Conference Kuala Lumpur, Malaysia.	International Conference	Presented	"Synthesis of Novel Intrinsically Conducting Polymer Metal Nanocomposites, Their Electrochemical Behaviour and Corrosion Study"	International Association of Tamil Research	21.7.2023-23.7.2023

In-service Teacher Training Programme in Physical Sciences	Training Programme	Participated	-	Tamilnadu State Council for Higher Education at Rani Anna Government College for Women Tirunelveli	05.05.2022 & 06.05.2022
One Day Workshop on “Chemist as Entrepreneur cum Hands on Training on “House Hold Articles	State level workshop	participated	-	Department of chemistry, St. Mary’s College, Thoothukudi	18.07.2019
Indian Higher Education: Current Status and Leadership Challenges	National Seminar	participated	-	Centre for Education Beyond Curriculum (CEDBEC), Christ (Deemed to be university), Bangalore	11.06.2019-13.06.2019
Hands on Training on Data Analytics using SPSS	Workshop	Participated	-	Research Forum St.Mary’s College (Autonomous) Thoothukudi	24.08.2018
Fostering Transparency: Routing out Plagiarism A to Z	National Seminar	Participated	-	Research Forum and Department of Library, St.Mary’s College (Autonomous) Thoothukudi	20-07.2018
Academic and Research Integrity in the Digital World	National Seminar	Participated	-	Research Forum and Department of Library, St.Mary’s College (Autonomous) Thoothukudi	09.12.2017
Green Chemistry for Clean Environment	National Conference	Presented	Synthesis and Characterisation of a novel poly(diphenylamine)-TiO ₂ composite	Department of Chemistry St.Mary’s College (Autonomous) Thoothukudi	07.12.2017 & 08.12.2017

A One day Research Orientation Programme for Research Supervisors of Manonmaniam Sundaranar University		Participated	-	IQAC & Centre for Research, Manonmaniam Sundaranar University, Tirunelveli.	01.11.2017
Human Values Development Programme	Workshop	Participated	-	St.Mary's College (Autonomous) Thoothukudi	02.02.2017
Cosmic concerns: An interdisciplinary Dialogue in Applied ethics	National Seminar	Participated	-	St.Mary's College (Autonomous) Thoothukudi	27.01.2017 28.01.2017
Capacity Building Workshop on E-Content Development	Workshop	Participated	-	St.Mary's College (Autonomous) Thoothukudi	11.04.2016 to 16.04.2016
Micro scale Analytical and FT-IR techniques	Workshop	Participated	-	Department of Chemistry, St. Xavier's College (Autonomous) Palayamkottai	14 10. 2016 And 15.10.16
Quality Enhancement in Higher Education: Teaching, Learning & Evaluation	National Seminar	Participated	-	St.Mary's College (Autonomous) Thoothukudi	7.01.2016 & 8.01.2016
International conference on Nanomaterials for Energy, Environment, Catalysis and Sensors (ICNEES-15)	International conference	Participated	-	Madurai Kamaraj University, Madurai	11.12.15 & 12.12.2015
Electrochemical Methods for Evaluation of	National Seminar	Participated	-	National Institute of Technology Tiruchirappalli	20.11.2014 & 21.11.2014

Nano materials					
Institutional Quality Improvement: Role of Information and Communication Technology	National Seminar	Participated	-	St.Mary's College (Autonomous) Thoothukudi	31.01.2014 & 1.02.2014
National conference on Advanced Materials NCAM-2013	National conference	Paper Presented	Synthesis of novel copolymer metalnanocomposites, its electrochemical and anti corrosion study	In collaboration with Indian Association For Crystal Growth St.Mary's College (Autonomous) Thoothukudi	15.02.13 & 16.02.2013
XXI Triennial Convention of The Xavier Board of Higher education in India	National Seminar	Participated	-	St.Philomena's College(Autonomous) , Mysore	27.04.2013 & 30.04. 2013
National Symposium on Nanoscience (NSN-2012)	National Symposium	Participated	-	St.Mary's College (Autonomous) Thoothukudi	29.11.2012
Nanoscience and Applications	National Seminar	Participated	-	V.O.Chidambaram College, Thoothukudi	12.03.2012.
Emerging Trends In Chemistry	National Seminar	Poster presentation	Synthesis of intrinsically conducting polymer metal composites of p-aminobenzoic acid –its electrochemical behavior and corrosion studies	Department of Chemistry, VHNSN College , Virudhunagar	28.07.2011 & 29.07.2011
International Conference on Nanoscience and Nanotechnology (ICNN2011)	International Conference	Paper presented	Synthesis of polymer nano composites of anthranilic acid with metal oxides , its	Coimbatore Institute of Technology , Coimbatore, jointly with Center for	6.07.2011– 8.07.2011.

			electrochemical and anti corrosion studies	Research and Advanced Studies of IPN-Mexico	
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Webinar/ Online Workshop/ Online FDP attended

Name	Department	Workshop/ Seminar/ Training/ FDP/ Journal	Paper Presented/ Participated	Title	Organised By	Date
Irudaya Antonat Sophia	Chemistry	Webinar	-	Glimpse on Open Education Resources	Department of Library, St. Mary's College (Autonomous) Thoothukudi	20.03.24
Irudaya Antonat Sophia	Chemistry	FDP	Participated	Preparing teachers for artificial intelligence driven education	Annammal College of Education, Thoothukudi	6.11.23 to 10.11.23
Irudaya Antonat Sophia	Chemistry	National Webinar	participated	Academic Visibility in the Digital World	Department of Library St. Mary's College (Autonomous), Thoothukudi	12Feb-2021 February
Irudaya Antonat Sophia	Chemistry	National Webinar	participated	Increasing Visibility in the Research World Using Academic and Social Media	Department of Library and Marian Research Forum, St. Mary's College(Autonomous), Thoothukudi	31-Oct-2020
Irudaya Antonat Sophia	Chemistry	A One Day Virtual Workshop	participated	Instrumental Analysis of Biochemical Constituents in Food	Marian Star Centre Department of Chemistry St. Mary's College (Autonomous), Thoothukudi	29-Oct-2020

Irudaya Antonat Sophia	Chemistry	Workshop	participated	“Online Teaching-Make It Easy”	Internal Quality Assurance Cell(IQAC), Government Arts And Science College (Women) Sathankulam	09-Aug-2020 .
Irudaya Antonat Sophia	Chemistry	Webinar	participated	An overview of Development of Drugs and Vaccines for the Current Pandemic”	Department of Chemistry St. Mary’s College (Autonomous), Thoothukudi	20-Jul-2020
Irudaya Antonat Sophia	Chemistry	National Level Workshop	participated	ICT Tools For Smart Teaching	Servite College of Education For Women	18-Jun-2020 to 20-Jun-2020
Irudaya Antonat Sophia		FDP		Digital Tools For Smart Teaching	Servite Arts And Science College For Women Thogamalai	16-Jun-2020 and 17-Jun-2020
Irudaya Antonat Sophia	Chemistry	National Webinar	participated	Intermolecular Bonding	Women’s Christian College Chennai	16-Jun-2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Google’s UI Toolkit	Department of Computer Science and Computer Applications Servite Arts And Science College For Women Thogamalai	13-Jun-2020

Irudaya Antonat Sophia	Chemistry	National Level Online Certificate Course	participated	Medicinal Chemistry	Sri Parasakthi College For Women(Autonomous) Courtallam	12-Jun-2020
Irudaya Antonat Sophia	Chemistry	International Webinar	participated	Lecture 1: Porous Carbon Based Nanocomposite For Energy Storage And Sensing Lecture 2: Chemical Biology of Covid 19	Jeyaraj Annapackiam College For Women Periyakulam	11-Jun-2020 and 12-Jun-2020
Irudaya Antonat Sophia	Chemistry	National Level Webinar	participated	Designing New Chiral Molecules For Asymmetric Organocatalysis	PG & Research Department of Chemistry V.O.Chidambaram College Thoothukudi	11-Jun-2020
Irudaya Antonat Sophia	Chemistry	International Webinar	participated	Evolution and Transformation of Chemistry: A Futuristic Approach	S.T.Hindu College Nagercoil	08-Jun-2020
Irudaya Antonat Sophia	Chemistry	National Webinar	participated	Nanomaterials	Sadakathullah Appa College(Autonomous) Tirunelveli	06-Jun-2020
Irudaya Antonat Sophia	Chemistry	National Webinar	participated	Biodiesel From Marine Algae	V.O.Chidambaram College Thoothukudi	05-Jun-2020
Irudaya Antonat	Chemistry	Quiz	participated	World Environment	Sarah Tucher College(Autonomous	05-Jun-2020

Sophia				Day) Tirunelveli	
Irudaya Antonat Sophia	Chemistry	National Level Online Course	participated	Five Days Online Course in “Chemistry In Our Day- To-Day Life”	Jamal Mohamed College Tiruchirapalli	04-Jun- 2020 - 08-Jun- 2020
Irudaya Antonat Sophia	Chemistry	International Webinar	participated	Effective Usage of ICT Tools For Higher Education	Servite Arts And Science College For Women Thogamalai	03-Jun- 2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Introduction to Geographic Information System(GIS)	Department of Physics, St. Mary’s College (Autonomous), Thoothukudi	02-Jun- 2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Graphene Based Nanocomposit es For Energy Storage	V.O.Chidambaram College Thoothukudi	01-Jun- 2020
IrudayaAnt onat Sophia	Chemistry	Quiz	participated	Fundamentals of Rechargeable Batteries	RajapalayamRajus’ College Rajapalayam	01-Jun- 2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Laboratory Safety Practices	SIES College of Arts , Science & Commerce(Autonom ous) Mumbai	31- May- 2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	An Overview of E- content Development	Department of Visual Communication(SSC) St. Mary’s College (Autonomous), Thoothukudi	29- May- 2020

Irudaya Antonat Sophia	Chemistry	Webinar	participated	Three Questions That Lead You To Success	Aditanar College of Arts and Science Tiruchendur	28- May- 2020
Irudaya Antonat Sophia	Chemistry	Quiz	participated	Physics in Daily Life	Department of Physics, St. Mary's College (Autonomous), Thoothukudi	26- May- 2020.
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Energy, Energy Everywhere, How to harness it?	Department of Chemistry, V.O.Chidambaram College	21- May- 2020.
Irudaya Antonat Sophia	Chemistry	webinar	participated	"Taking Research Forward During the Pandemic"	Loyola Institute of Frontier Energy (LIFE), Loyola College Chennai	20- May- 2020.
Irudaya Antonat Sophia	Chemistry	Workshop	participated	Online Teaching	Kamaraj College Thoothukudi	18 th -22 nd May- 2020
Irudaya Antonat Sophia	Chemistry	International Webinar	participated	Bioinformatic s in Microbiome Research & Climate, Biomes and India	PG Department of Chemistry (SSC)	17- May- 2020.

Irudaya Antonat Sophia	Chemistry	International E-Conference	participated	Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World”	Government Vidarbha Institute of Science & Humanities, Amravati, India	15 th - 17 th May-2020.
Irudaya Antonat Sophia	Chemistry	Webinar	participated	National Level “American College Chemistry” Webinar Series-I	Department of Chemistry The American College, Madurai	15 th & 16 th May-2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Application of ICT in Chemistry for Undergraduate s	Dept.of Chemistry, Stella Maris College (Autonomous) Chennai	14-May-2020
Irudaya Antonat Sophia	Chemistry	Workshop	participated	Mental Health And Psychosocial Consideration During Lockdown	ST.Mary’s College (Autonomous) Thoothukudi In Association with Aadhi Foundation	13 th & 14 th May-2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Selection of Appropriate Statistical Tools:A Critical Way For Successful Research	Research Advisory Committee ST.Mary’s College (Autonomous) Thoothukudi	12-May-2020

Irudaya Antonat Sophia	Chemistry	Webinar	participated	Psychological First Aid	Department of Psychology St. Mary's College (Autonomous), Thoothukudi	11-May-2020
Irudaya Antonat Sophia	Chemistry	Quiz	participated	Birds Connect Our World	ECO Club Annammal College of Education For Women Thoothukudi	09-May-2020
Irudaya Antonat Sophia	Chemistry	Quiz	participated	Novel Covid-19 Pandemic General Awareness quiz	PG and Research Department of Chemistry The New College Chennai	06-May-2020
Irudaya Antonat Sophia	Chemistry	Webinar	participated	Redefining Learning Spaces- Change Agent in Educational Ecosystem	Colombo Plan Staff college	06-May-2020
Irudaya Antonat Sophia	Chemistry	Certificate Course	participated	Elemental Arts: Evolution of Modern Periodic Table	Department of Science and Humanities (Chemistry) Sri Krishna College of Engineering and Technology Coimbatore	1 st & 2 nd May-2020

Papers Published

Paper Title	Author(s)	Journal	Year	Volume	Issue	Page No.
Synthesis and Characterisation of Poly Anthranilic Acid MetalNanocomposites	Irudaya Antonat Sophia , G.Gopu , C.Vedhi	Open Journal of Synthesis Theory and Application	2012	1	1	1-8
Preparation and characterization of a novel intrinsically conducting polymer metal nanocomposite,	Irudaya Antonat Sophia , C.Vedhi,	Marian Quest	2014	2	(2),	24-23,
Electrochemical determination of the antidepressant drug, Nitrazepam using Poly(3,4-ethylenedioxythiophene) modified glassy carbon electrode	A.Lakshmi, Irudaya Antonat Sophia , C.Vedhi	International Journal of Recent Research Aspects,	April 2018,		Special Issue: Conscientious Computing Technologies,	pp. 905-908
Anti -diabetic , anti-oxidant , fluorescence and filter characterisations of Bis Glycine Lithium Bromide Monohydrate (BGLBMH) macro and nano scaled crystals	Alphonse Arockia Jenecius, Ramachandra Prasad Divya, Kannuswamy Senthil Kannan, Irudaya Antonat Sophia , Balaraman Ravindran, Ramamurthi Krishna Veni	International Journal of Current Research and review	September 2021	13	18	35-39
Screening and Evaluation of Biodegradability of polythene by Soil Bacteria	Jemma Hermelin Jesy Diaz, J.Esther Mereen, G.Flora, Irudaya Antonat Sophia	Indian Journal of Natural Sciences	October 2021	12	68	34338 - 34343

Papers in proceedings

Paper Title	Author(s)	Proceedings	Year	Page No.
K. Bhuvaneshwari, A. EssaraBanu, J. Jebima, P. Shalu, V. Thasmin, S. Utchinimahali, and Dr. Irudaya Antonat Sophia	Structural and Surface Morphological Study of Synthesized poly N,N-Dimethyl Aniline/ Graphite Composite	SMC SCIENCE UPDATES '21 ISBN CODE: 9789380430775	2021	85
M. Agnes Mary, M. Ancy, P. Jemima, K. Kantha Lakshmi, D. Karthika Lakshmi, S. Pon Selvi and Dr.Irudaya Antonat Sophia	Synthesis and Characterisation of Poly (p-aminobenzoic acid-co-p-anisidine)	SMC SCIENCE UPDATES '21 ISBN CODE: 9789380430775	2021	79
J. Angel Selciya, T.Anto Threshinal, M. Arumuga Lingammal, S. Jesline Jenitha, M. Sri Devi, A. Judy Auxline, R. Maria Rasmitha, D. Sasirekha, C. Subbu Lakshmi, Dr. Irudaya Antonat Sophia	A survey and analysis on the soil quality parameters in the anthonyarpuram region.	SMC SCIENCE UPDATES ISBN CODE: 9789380430591	2021	99

Papers Presented Abroad

Presented a paper entitled “Synthesis of Novel Intrinsically Conducting Polmer Metal Nanocomposites, Their Electrochemical Behaviour and Corrosion Study” at 11th International Tamil Research Conference held at Kuala Lumpur, Malaysia from 21.7.2023 to 23.7.2023

Chair Person

Also served as chair person for a session at 11th International Tamil Research Conference held at Kuala Lumpur, Malaysia

Awards and Achievements

- ❖ Secured First rank and awarded **PG chemistry Silver Jubilee medal** in **M.Sc., chemistry (1997)** at The American College , Madurai

- ❖ Awarded **Principal P.O.Chellappa Prize** for **M.Sc., chemistry** during **1996-1997** at The American College , Madurai.
- ❖ Secured **XII Rank** in **B.Sc., chemistry** in Manonmaniam Sundaranar University during **1992-1995**.
- ❖ Secured **V Rank** in **French** in Manonmaniam Sundaranar University during **1992-1994**.
- ❖ Secured **XVIII Rank** in **English** in Manonmaniam Sundaranar University during **1992-1994**.
- ❖ Secured **GATE** score of **86.08 percentile** and obtained **209th rank in All India level** and declared as a qualified candidate in **GATE 1997**
- ❖ **First Prize** in the **poster presentation** in UGC Sponsored **National Seminar on Emerging Trends in Chemistry** organised by the **Department of Chemistry , VHNSN College , Virudhunagar** on 28th and 29th July , 2011

ONLINE COURSE:

- Completed Online refresher course in Chemistry for Higher Education (ARPIT) organised by Ministry of Human Resource Development during November 2018 to March 2019.

ORIENTATION COURSE

- Participated in the UGC-Sponsored Orientation Programme conducted by the UGC-Human Resource Development Centre, Madurai Kamaraj University held from 10.10.2019 to 30.10.2019 and obtained 'A' grade.

REFRESHER COURSE

- Completed a Refresher Course in Chemistry organized by Ramanujam College, Delhi. from 29th November to 13th December 2022.
- Attended UGC sponsored Refresher Course organized by UGC Human Resource Development Centre, Bharathiar University, Coimbatore from 10.11. 2021 to 23.11.2021.

Others:

- ❖ Head of the Department (2023 onwards-)
- ❖ Assistant Director of Centre For Cultural Excellence (2023)
- ❖ Vice Principal : **2019- 2022**
- ❖ NSS Programme Officer : **2015-2018**
- ❖ Member in dance committee
- ❖ Member in discipline committee
- ❖ Staff in charge for choir and orchestra

- ❖ Reviewer of the following journals -

International Journal of Industrial Chemistry

Journal of Engineering Research and Reports

Current Journal of Applied Science and Technology

- ❖ Received certificate of Excellence in Peer-Reviewing By BP International