

FACULTY PROFILE



<i>Name</i>	<i>Dr. A. C. CINI ROACH</i>
<i>Designation</i>	<i>Assistant Professor</i>
<i>Department</i>	<i>Chemistry</i>
<i>Date of Birth</i>	<i>25 March 1990</i>
<i>Date of Appointment</i>	<i>01.07.2026</i>

Area of Specialization

: *Environmental Chemistry*

Personal Affiliation

: *JAC Publication Committee member*

Unnat Bharat Abhiyan Committee member

JAC Anchoring club Committee member

Academic Records

Degree/Course	Name of the Institution/ University / Board	Subject	Mark/ Grade	Awards/ Distinction
M.Ed. 2026	Tamil Nadu Teachers Education University	Education	82 %	First Class with Distinction
Ph.D. Chemistry 2025	Women s Christian College, Nagercoil Manonmaniam Sundaranar University	Chemistry	Completed	Qualified with Highly commended
M.Phil.. Chemistry April 2019	Annai Velankani College, Tholyavattam. Manonmaniam Sundaranar University	Chemistry	77.5 %	First Class with Distinction
M.Sc. Chemistry April 2014	S.T.Hindu College, Nagercoil Manonmaniam Sundaranar University	Chemistry	76.37 %	First Class with Distinction
B.Ed. April 2012	Tamil Nadu Teachers Education University	Education	79%	First Class with Distinction
B.Sc Chemistry April 2011	Women s Christian College, Nagercoil, Manonmaniam Sundaranar University	Chemistry	92.71 %	First Class with Distinction (University III Rank)
H.S.C. March 2008	Government Higher Secondary School, Eraniel		82.75%	First Class with Distinction
S.S.L.C March 2006	Government Higher Secondary School, Eraniel		85.4%	First Class with Distinction

Awards/ Merit Certificates– 10

S.No	Certificates Of Merit	Subject	Year
1	Project Applied to TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY under NAAN MUDHALVAN SCHEME	PROGRAM FOR BRIDGING THE GAP IN RESEARCH FUNDING FOR RESEARCH SCHOLARS IN COLLEGES AT GTN COLLEGE (Autonomous), DINDUGAL	August 2024
2	Best Paper award	Paper presentation on “A study on Heavy Metal Concentration in the Most Polluted Soil of Kalkulam Taluk”	St.Xavier’ s Engineering College. Nagercoil(2023)
3	UG Rank Holder award	University Third Rank, B.Sc Chemistry, I-VI Semesters	W.C.C Graduation Day,(2012)
4	Bernard Jacob Ross merit prize. Cash Award	For securing highest mark in Part III major. B.Sc Chemistry,	W.C.C, College Day, (2011)
5	Mary Daniel merit prize Cash Award	For securing highest mark in Part III major. B.Sc Chemistry,	W.C.C College Day, (2011)
6	Vasantha Balan scholarship	For securing highest mark in Part III major. B.Sc Chemistry,	W.C.C College Day, (2011)
7	Mrs. Kamala Bai Pauliah memorial prize Cash Award	For securing highest mark in Part III major. B.Sc Chemistry,	W.C.C College Day, (2011)
8	Dr. Lion Prof S.A.P Varghese scholarship prize Cash Award	For securing the highest mark in V semester B.Sc Chemistry	W.C.C College Day, (2011)
9	Prof. Mano prize Medal	For Best Outstanding in Studies, B.Sc Chemistry	W.C.C College Day, (2011)
10	College Management Medal	B.Sc Chemistry, Third Rank I – VI Semester	W.C.C College Day, (2011)

Title of Ph.D Thesis

“ PHYTOREMEDIATION POTENTIAL OF ANANAS COMOSUS FOR REMOVAL OF SELECTED HEAVY METALS FROM RURAL SOIL IN KALKULAM TALUK OF KANYAKUMARI DISTRICT”

Title of M.Phil Thesis

“SYNTHESIS OF METAL COMPLEXES Fe(II), Cu (II) and Zn (II) WITH N-METHYLETHYLENEDIAMINE AND ITS CHARACTERIZATION”

List of Papers Published in International and National Journals

S.No	Author	Title	Journal	Page No	Impact factor	International/National
1	A.C.Cini Roach	“Synthesis and Characterization of Chelating Tris-ethylene diamine copper complex”	International journal of Scientific research and reviews	Vol-8-Issue-1-Jan-Mar 2019		Peer-Reviewed Journal
2	A.C.Cini Roach	“A study on heavy metals (Ni, Cd, Cr, Cu, Pb) concentration in the most polluted soil of Kalkulam Taluk and its removal by phytoremediation process using <i>Ananas comosus</i> ”	Indian journal of natural science	volume 13, issue 76, Feb 2023 .	3.08	International (UGC CARE) listed Journal, (Web of Science)
3	A.C.Cini Roach	“ <i>Ananas comosus</i> -mediated phytoremediation of heavy metals: A comprehensive analysis of metal uptake, physico-chemical parameters, and soil quality”	Journal of survey in fisheries science	Vol-10-Issue-1-Oct-Dec-2023	5.9	International (UGC CARE) listed Journal

Seminar Attended

- Attended a seminar on "Recent Advances in Chemical Sciences and Technologies" at Women's Christian College, Nagercoil (October 10, 2009).
- Explored "Value Education: Issues and Challenges" at N.V.K.S.D College of Education, Attoor (April 10, 2012).
- Discussed "Health Benefits of Naturally Occurring Chemicals" at Women's Christian College, Nagercoil (March 10, 2014).
- Participated in an "Orientation Programme on Research" at Sree Ayyappa College for Women, Chukankadai (September 18, 2018)..
- Investigated "Modern Trends in Material Science" at Women's Christian College, Nagercoil (January 31, 2019).
- Explored "Green and Sustainable Chemistry" at Women's Christian College, Nagercoil (May 2, 2022).
- Attended the "National Conference on Recent Technologies and Advancements in Research" at Women's Christian College, Nagercoil (March 31, 2022).
- Attended National Conference on Radiation Protection in Nuclear Power Plants at " at Women's Christian College, Nagercoil (May 5, 2022).
- Attended State level Seminar on Academic Writing at Women's Christian College, Nagercoil (March 3, 2024)

Workshops attended

- Participated in 1 day workshop on Microscale Experiments in Chemistry at S.T.Hindu College, Nagercoil, Kanyakumari District. (March 2013)
- Participated in 1 day workshop on "ORCHID and INFLIBNET Services for Scholarly Communities" at St. Xavier's College (Autonomous), Palayamkottai, Tirunelveli (July 23, 2024).
- Participated in 2-day workshop on "Structural Analysis using X-ray Diffraction (XRD) and High-Resolution Scanning Transmission Electron Microscopy (HRSTEM)" at Sathyabama Institute of Science and Technology, Chennai on August 8-9, 2024.

Papers Presented in Conferences –10

S.No	Title	Name of the Conference	Date and place	International/ National
1	Spectral and Thermal Studies of Trisethylenediammine Copper Complex	National conference on New Dimensions in Chemical Research (CHEMINO - 2019)	7 th , 8 th February, 2019. Annai Velankani College, Tholayavattam, Kanyakumari District	National
2	Detoxicity of Chelating Trisethylenediammine Copper Complex	International Conference on Emerging Trends in Mathematical, Physical and Chemical Science (ETMPC)	22 nd February 2019 Noorul Islam Center for Higher Education, Kumaracoil, Kanyakumari District	International
3	A Study on Heavy Metals in contaminated soils and Its Uptake by <i>Ananas comosus</i>	National Conference on Recent Technologies and Advancements in Research	31 st March 2022. Women's Christian College, Nagercoil. Kanyakumari District	National
4	A Study on Heavy Metals (Cd and Pb) Concentration in the Most Polluted Soil of Kalkulam Taluk and Its Removal by Phytoremediation Process using <i>Ananas comosus</i>	National conference on innovative research in medicinal chemistry (CRIMC - 2023)	10 th February 2023. Muslim Arts College, Thiruvithancode, Kanyakumari District	National
5	A Study on phytoremediation potential of ananas comosus of removing heavy metals in the most polluted soil of Kalkulam taluk of Kanyakumari district	International conference on innovative strategies in Astro and Synthetic organic chemistry (ICISASOC - 2023)	27 th February , 2023 Holy Cross College, Nagercoil(Autonomous, Kanyakumari District	International
6	A Study on Heavy Metal Concentration in the Most Polluted Soil of Kalkulam Taluk.	4 th International conference on advances in substainability of Materials and Environment (ICASME – 2023)	26 th , 25th May , 2023 St. Xavier's Catholic College of Engineering, Chukankadai. Kanyakumari District	International

7	A Study on Heavy Metals (Cd and Pb) Concentration in the Most Polluted Soil of Kalkulam Taluk and Its Removal by Phytoremediation Process.	International conference on Science and Technologies for Sustainable Development	10 th May 2023 Noorul Islam Center for Higher Education (Autonomous), , Kumaracoil. Kanyakumari District	International
8	A Study on Heavy Metals (Cu and As) Concentration in the Most Polluted Soil of Kalkulam Taluk and Its Removal by Phytoremediation Process using <i>Ananas comosus</i> .	National Conference on Biomaterials”(NCB – 2023)	21, April , 2023 Scott Christian College (Autonomous), , Nagercoil.Kanyakumari District	International
9	"A Study on Heavy Metals (Cr and Ni) Concentration in the Most Polluted Soil of Kalkulam Taluk and Its Removal by Phytoremediation Process using <i>Ananas comosus</i> .	Second Joy Mohandhas Endowment Seminar	10 th October, 2024. Women's Christian College,Nagercoil. Kanyakumari District	National
10	Harnessing <i>Ananas comosus</i> for Heavy Metal Phytoremediation: A Breakthrough in Soil Decontamination	3rd International Conference on Advanced Nanomaterials for Energy, Environment, and Healthcare Applications (ANEH 2024),	21 st – 23 rd August, 2024. G.T.N Arts and Science College (Autonomous), Dindugal	International

Co-curricular activities

- Acted as judge for Agni's Ignito District level Project Competition for Centre for Research and Development at Vivekananda Matric Hr. Sec School, Vaikundapuram, Kanyakumari District on 16th October 2015.
- Received the Appreciation Award for Best Guide Teacher at the 22nd National Children's Science Congress, SJBIT, Kengeri ,Bengaluru Karnataka . (2014)

Contact details

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