

DR. GEETHA ANDREWS

Associate Professor

(Former Head of the department and Controller Examinations of the college)

Department of Chemistry,

St. Teresa's College (Autonomous), Ernakulam

Cochin - 682011.

Area of Specializations : Environmental Chemistry and Synthetic Organic Chemistry

Degree/Diploma	Institution/ University	Year of passing	Specialisation
PhD	Dept of Chemical Oceanography, CUSAT	July 2011	Environmental Chemistry
M Phil	Department of Applied Chemistry, CUSAT	1989	Organic Chemistry
MSc (Applied Chemistry)	Department of Applied Chemistry, CUSAT	1987	Medicinal Chemistry
BSc Chemistry	St. Joseph's College for Women, Alleppey (Kerala University)	1985	Chemistry Main
Diploma in Journalism	Xavier Institute of Communication, Bombay	1989	
Basic Training in Counselling	Santhwana Institute of Counselling and Psychotherapy, Kacheripady, Kochi	2009	

➤ **EXPERIENCE:**

a) **RESEARCH :**

- One semester of research experience in **Medicinal Chemistry** as part of MSc in Department of Medicinal Chemistry, in **Indian Institute of Chemical Biology (IICB), CSIR lab, Calcutta.**

Title of project work : Synthetic Studies on Benzopyrido Quinolazine Alkaloids.

- 6 months of research experience in **Synthetic Organic Chemistry** as part of MPhil, in the Department of Applied Chemistry, **CUSAT.**

Title of M Phil Thesis : Oxidative cyclisation using N- Oxides.

- 5 years of research experience in **Environmental Chemistry** as part of PhD in the department of Chemical Oceanography, **CUSAT.**

Title of PhD Thesis : Chemical evaluation of selected organics and trace metals in the mangrove macroflora of Cochin.

b) **TEACHING:**

Total teaching experience: Above 28 years

Name of Institution	No: of years	Classes taught
St. Teresa's College, Ernakulam	27 years (1-10-1991 onwards till date)	MSc, BSc (Main and Subsidiary Chemistry), Pre-degree
St. Joseph's College, Bangalore	10 months (1990-91) as guest faculty	MSc, BSc Main and Subsidiary, Pre-degree
Fathima Matha National College, Kollam.	6 months (1989-90) as lecturer in leave vacancy	BSc Main and Subsidiary, Pre-degree

c) **ADMINISTRATIVE:**

- Controller of Examinations of the College from June 2017 to November, 2017
- HOD of Chemistry, from 2004 to 2017 (13 years).
- Executive co-ordinator of Science Block 2016-17.
- Faculty in charge, life guidance for students, 2016-17.
- Faculty member of discipline committee 2016-17.
- Dean of Students Union, 2015-16.
- Dean of Science block 2014-15
- Faculty in charge of Grievance Redressal Cell for 3 years.
- TROP (Teresian Rural Outreach Programme) Co-ordinator (Science block) - 2 yrs.
- Faculty team member of Women's Cell, 2005-06
- Faculty team member of orientation and retreat for students for many years.
- Secretary of staff association of the college (2005-06 and 2013-14.)

d) **ACADEMICS :**

- Academic Council Member of St. Teresa's College(autonomous) since 2014-15.
- Chairman, Board Of Studies of Chemistry, of St. Teresa's College (Autonomous) 2014-18.
- Chairman of various UG and PG, CV camp of Chemistry, of St. Teresa's college (Autonomous) from 2014 -17.
- Founder member of Exam cell of the college under autonomous system and has played a vital role in its functioning.
- Chairman of restructuring of the syllabi of UG and PG papers (theory and practicals) from 2014-18.
- Chief examiner of various papers of M.G. University since 2011.

- External examiner of various practical exams of M.G. university for more than 20 years.
- Team member of the group of teachers who designed the course content of CBCSS BSc Chemistry main Model I Organic chemistry main papers (of 4 semesters) of M. G. University.
- Team member of the group of teachers who designed the course content of CBCSS BSc Chemistry main Model I Choice based courses of M. G. University.
- Value Education Teacher since 1991.

e) **INTERVIEW BOARD MEMBER:**

- Interview board member of selection for permanent faculty members to the department of Chemistry of St. Teresa's College, Ernakulam, in January 2004 and April, 2017.
- Interview board member of PSC school teacher's interview.
- Interview board member for the selection of guest lecturers to the department of Chemistry of St. Teresa's College, Ernakulam, since 2013 to 2017.

f) **RESOURCE PERSON:**

- Resource person on the topic **Chemistry of Mangrove Ecosystems** for the Lecture series of **International Year of Chemistry Celebrations** of St. Josephs College, Alleppey, 2011.
- Resource person for **3 day NSS Mini Camp** of NSS Volunteers of St. Teresa's College, Ernakulam on 31/8/2013, at St. Teresa's College, Ernakulam. Gave a presentation on **Eco-friendly living for youth**.
- Resource Person for the TROP activity at DonBosco Bhavan, Palluruthy
Gave a talk on "**How to overcome exam fear**" to the inmates (highschool students)

g) **PUBLICATIONS AND PRESENTATIONS:**

- 1) Workshop on Impact of Urbanisation on the mangrove Ecosystems of Kochi, conducted by Department of Chemistry, St. Teresa's College, Ernakulam in association with Centre for Environment and development, Trivandrum and sponsored by Ministry of Environment and forests, Govt of India. on 15-2-2008.

- 2) Presentation on **Chemistry of Mangrove Ecosystems** for the Lecture series of **International Year of Chemistry Celebrations** of St. Josephs College, Alleppey, 2011. Was the Resource Person.
- 3) **Value education a powerful tool for human resource development.** Paper presented at the national conference on enhancing human resource development for excellence in higher education organized by CEDBEC, Christ University, Bangalore , 16th to 18th February, 2011.
- 4) **Pedagogy for net generation- Implementation of New and Evolving Technology in Higher education.** Paper presented at National workshop organized by IQAC cell of St. Teresa's college, sponsored by NAAC(Published in the proceedingspg 83- 88) .
- 5) **Sedimentary Tannins and Lignins in Mangrove Ecosystems.** Paper presented at the UGC sponsored national Seminar on green chemistry and Environment conservation organized by Morning Star college Angamaly (Published in the proceedings, pg 48-51).
- 6) **Variations of phytochemical parameters in fruits of pappaya, gooseberry, gauva** Nayana Jeksy, Stini oseph, **Geetha Andrews**, Merrina Benny. Poster presented during UGC Sponsored National Seminar Advancements in Polymer Science and Technology, organised by the department of Chemistry, on 24th and 25th January, 2017.
- 7) **Variations of phytochemical parameters in fruits of pappaya, gooseberry, gauva** Nayana Jeksy, Stini oseph, **Geetha Andrews**, Merrina Benny. Published in proceedings of Advancements in Polymer Science and Technology, on 24th and 25th January, 2017 pg- 210-214.
- 8) **Optimising Conditions favorable for degradation of Chloropyifos using Fenton's reagent** , Christina Louis, Maria Jesleena Martin, **Geetha Andrews** and V. Babu, Paper Published in Teresian Book of research in Chemistry , Volume I, ISBN No.9788172551049, pg 100-108

9) **Distribution of Nutrients and Biochemical components in the surfacial sediments along the Cochin Estuary.** Neenu K.V, Stenia Varghese, Geetha Andrews, Anu Gopinath, Princy M. John. Paper Published in Teresian Book of research in Chemistry , Volume I, ISBN No.9788172551049, pg 85-93.

g) **SCHOLARSHIPS / FELLOWSHIPS WON:**

- . UGC FIP fellowship for 2 years to do PhD.
- . Merit Scholarship from CUSAT for MPhil (Organic Chemistry)
- Merit Scholarship of Kerala University for BSc.

h) **OTHER ACHIEVEMENTS :**

- Organised a two day workshop for administrative staff of the college, in association with **APTECH** to upgrade their computer skills in 2017.
- Started the news letter- *Rasathantra* of the department of Chemistry in March 2011.
- Started '**Beyond Self**' the social Service outfit of the department of Chemistry in 2006 which has carried out many society oriented activities, especially for the marginalized.
- Was the **hostel secretary** of the then only women's hostel (Aiswarya) of CUSAT (87-88).
- Was the **Chairperson of St. Joseph's College**, Alleppey during the year 1984-85

➤ **Membership in professional bodies:**

Life member of ISAS