

ST. MARY'S COLLEGE (AUTONOMOUS)

(Re-accredited with "A⁺" Grade by NAAC - 4th Cycle) Thoothukudi - 628001, Tamil Nadu, India.



Department of Chemistry

2021-2022



Editorial Board

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Association meeting

Online invited talk on "What is needed For Chemistry Graduates? sponsored by Department of Biotechnology, Govt. of India, New Delhi was organized by Marian Star Centre, Department of Chemistry on **28th September**, **2021.** Dr.K.Arun Prasath Lingam, Assistant Professor of Chemistry, Kamaraj College, Thoothukudi was the resource person. Students of III, II and I B.Sc., Chemistry attended the lecture.





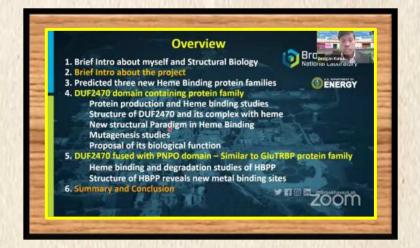
Faculty Development Programme on "Nuances in Chemistry Teaching

One Week Faculty Development Programme sponsored by Department of Biotechnology, New Delhi was organized under star college scheme by Marian Star Centre, Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu, India from Jan 31st to Feb.5th 2022 through online mode

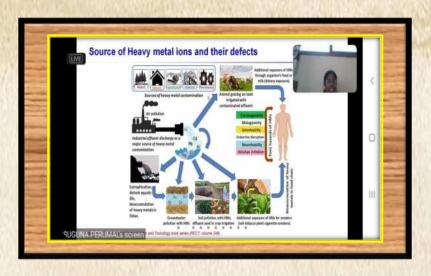


In the first session Dr. P.Sami, Associate Professor,

Department of Chemistry, V.H.N.Senthikumara Nadar College (Autonomous), Virudhunagar delivered a lecture on the topic "Solid Chemistry" There were 141 participants on day 1.



On the second day Dr. P.Sami, Associate Professor, V.H.N.SenthilkumarNadar College (Autonomous), Virudhunagar addressed the virtual gathering on the topic "Electrochemistry". Around 156 participants attended the session



On the third day, Dr. S.Jemima Balaselvi Juliana, Associate Professor of Chemistry, The American College, Madurai was the resource person. The resource person discussed on the topic "Coordination Chemistry".162 participants actively participated in this and cleared their doubts with the experts.



On day 4 (24.6.2021, Dr.K.Muruga Poopathi Raja, Assistant Professor, Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University. He delivered a lecture on the topic "Biomolecules Part I". Nearly 152 participants attended.



On the fifth day Dr.K.Muruga Poopathi Raja delivered a lecture on the topic on "Biomolecules Part II"..There were 150 participants on the last day.



Faculty from various schools and colleges actively participated. Apart from different parts of Tamilnadu, there were participants from Maharashtra, Rajasthan, Uttar Pradesh, Bihar, Kerala, Puducherry, Punjab, Telengana, West Bengal and Karnataka.

Chemistry Week Celebration

Chemistry Week celebration was organized under star college scheme from 29.11.2021 to 04.12.2021. Doodling, Model making, Handling Apparatus, Presentation, Poster making, Cook without Fire were organized.

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International Webinar on "Impact of Nanobiotechnology in the Field of Medicine

International webinar on "Impact of Nanobiotechnology in the Field of Medicine" was organised under star college scheme by Marian Star Centre, Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi in association with the Department of Microbiology, St. Mary's College (Autonomous), Thoothukudi on 16th and 17th December, 2021.

On the first day Dr. P. Pachamuthu, Assistant Professor of Chemistry, Integrated AI & Sensors lab, Bannari Amman Institute of Technology, Sathyamangalam, Erode shared his expertise on the topic "Emerging Trends in Microbial synthesis of Nanomaterials & their applications". 179 student participants from the Department of Physics, Chemistry, Botany, Zoology and microbiology actively participated.

On the second Dr.M.Gover Antoniraj – Post Doctoral Fellow, Department of Clinical Biochemistry and Pharmagology, Faculty of Health Sciences Ben – Gurion, University of Negiv, Israel, was the resource person and he delivered a lecture on "Advances in Drug Delivery". Students, research scholars, faculty members from various colleges, and academicians participated in the webinar. Totally 208 student participated and benefitted from the webinar. The webinar came to an end with a college anthem.



In house training programmes

- On 14th Dec 2021 in house training programme on Analysis of carbon, nitrogen, phosphorous, Zinc and calcium in soil using Mini Lab for soil analysis was organized under star college scheme for III B.Sc., Chemistry.
- On 14th Dec 2021 in house training programme on Estimation of glucose, cholesterol, hemoglobin and protein in blood sample using semi autoanalyser was organized under star college scheme for III B.Sc., Chemistry.
- On 15th Dec 2021 in house training programme on Analysis of carbon, nitrogen, phosphorous, Zinc and calcium in soil using Mini Lab for soil analysis was organized under star college scheme for II B.Sc., Chemistry.
- On 16th Dec 2021 in house training programme on Estimation of glucose, cholesterol, hemoglobin and protein in blood sample using semi autoanalyser was organized under star college scheme for III B.Sc.,Zoology.
- On 17th Dec 2021 in house training programme on Estimation of glucose, cholesterol, hemoglobin and protein in blood sample using semi autoanalyser was organized under star college scheme for II B.Sc., Chemistry.
- On 21st Dec 2021 in house training programme on Analysis of carbon, nitrogen, phosphorous, Zinc and calcium in soil using Mini Lab for soil analysis was organized under star college scheme for III B.Sc.,Botany.





In house Training on " Teaching and Learning Mathematics Through Error Analysis

In house Training on "Teaching and Learning Mathematics Through Error Analysis" sponsored by DBT, New Delhi under star college scheme was organized by Marian Star Centre, Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi on 4th and 5th January, 2022. Dr. V.L. Stella Arputha Mary, Head and Assistant Professor of Mathematics, St. Mary's College (Autonomous), Thoothukudi was the resource person. Students of I B.Sc., Chemistry (44) were the participants.



Hands on Training--''Fundamentals of Computational Chemistry and Molecular Simulation

Hands on Training on "Fundamentals of Computational Chemistry And Molecular Simulation" was organized under star college scheme by Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi on 16th February, 2022. Dr.Murali Krishnan, Assistant Professor of Chemistry, Bannari Amman Institute of Technology, Sathyamangalam, Erode was the resource person. Training began with a prayer song in the DST computer lab. First he gave an introduction about Gaussian 0.9 and spartan software to draw 3D structure of the molecules. Using sparton software he clearly instructed the students to draw 3D structure of molecules molecule like methane, cyclohexane (boat and chair form). All the II and III B.Sc., Chemistry students followed the instructions and drew the structures of the molecules. Furthermore he highlighted the advantage of using Gaussian view software for calculation of energy and bond length without wet laboratory.



Marian Star Science Expo

Marian Star Science Expo was organized for the school students. 2686 students visited our laboratory to grasp the scientific concepts.





In-Service Training Programme For Higher Secondary School Teachers

In-Service Training Programme For Higher Secondary School Teachers under star college scheme sponsored by Department of Biotechnology, New Delhi was organized by Marian Star centre, St. Mary's College (Autonomous) Thoothukudi from 23rd March-25th March 2022 from 9.30 A.M to 3.30 P.M. Twenty Seven Chemistry teachers from in and around Thoothukudi district received hands on training about the practical skills.



Lab- No. of Activities

- I main- 10 experiments
- II main- 10 experiments
- III main- 20+ 12 experiments
- I Allied physics- 7+10 experiments
- I Allied Zoology-7+10 experiments
- II BSc Botany- 7+10 experiments

Bridge courses

Bridge courses College reopened for IUG students on 06.09.2021. Bridge courses for first year students took place from 06.09.2021 to 09.06.2021.

Mentor Mentee System

The Mentor Mentee system is practiced in the department of Chemistry which has benefitted the student community.

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Certificate Courses

Nutritional Food Science was offered as certificate course to III year Chemistry students. 45 students enrolled and 44 students completed the course.



Board of Studies

The Board of Studies Meeting of the Department of Chemistry was conducted on 26th February 2022 at 10.30 a.m in the Department of Chemistry. Dr.A.Gomathi, Associate Professor, Department of Chemistry, Sri KGS Arts College, Srivaikundam, Thoothukudi-628 619, is the university nominee. Dr. K. Muthu, Assistant Professor, Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli-627012 is subject expert from MS University, Dr.B.Medona, Head & Associate Professor, Department of Chemistry, Fatima College, Madurai- 625018 is an external member

Parent Teacher Association Meeting

The Parent Teacher Association Meeting for the academic year 2020-2021 was held on 6th September 2021 through online mode. The Inaugural address was given by our Principal, Dr. Sr. A. S. J. Lucia Rose. Then, our Deputy Principal, Dr. Sr. S. Kulandai Therese familiarized the parents with the Marian norms. The second Parent-Teachers Association Meeting for the academic year 2021-2022 was held on 26th March 2022 for the final year students. The third Parent-Teachers Association Meeting for the academic year 2021-2022 was held on 9 th April 2022 for the parents of II UG students in the college auditorium.



Alumnae Meet

Alumnae meet-2022 was held on 23.04.2022 at 2.00.m. in the auditorium. Mrs. Thenmathi Dhanushkodi, Administer, Thenmani hospital was the chief guest.

Publications

Irudaya Antonat Sophia published a paper titled " Screening And Evaluation of Biodegradability of polythene by soil bacteria" in Indian Journal of Natural Sciences Volume 12, Issue 68

Staff Activities

- Dr. Irudaya Antonat Sophia and Dr.A.Parveen Sulthana attended the online Refresher Course in Chemistry by Bharathiar University, Coimbatore from 10.11.2021-23.11.2021
- Dr. A. Lakshmi and Dr. G. Amala Jothi Grace served as a evaluator for 29th National Children Science Congress organized by Tamilnadu science forum at Kamaraj College, Thoothukudi.
- Dr. B. Divya served as a resource person in Five days international webinar on Tricks and Tips for CSIR-NET/SET Chemical Science organized by Kamaraj College, Thoothukudi from 16.08.2021 to 20.08.2021.

Internships

Five students from III B.Sc., Chemistry, St. Mary's College (Autonomous), Thoothukudi attended Nine days internship to ABI Group of Companies from 11th November, 2021 to 19th November, 2021.



- Seven students from ST. Mary's College (Autonomous), Thoothukudi, attended fifteen days internship to AVM hospital from 1st November, 2021 to 17th November, 2021.
- Five students from III B.Sc., Chemistry, St. Mary's College (Autonomous), Thoothukudi, attended fifteen days internship to SPIC, from 1st November, 2021 to 17th November, 2021.

Student Activities

S. Varsha Antanitta of III BSc Chemistry Cleared JAM exam 2022 with the all India rank of 2514.

	JAM 2022 Score Joint Admission test for Ma Indian Institute of Technology	asters	
	CANDIDATE'S DETAILS	8	
1 60 1	Name : VARSHA ANTANITTA SAHAYA GANESH	Date of Bir 18-Sep-20	
	Parent's/Guardian's Name : Sahaya Ganesh	CY716A0	rr Number : St
Test Paper (Code)	CANDIDATE'S PERFORMA Number of Candidates Appeared in the Test Paper	Marks Scored (out of 100)	All India Rank
Chemistry (CY)	12940	28.33	2514
	CUT-OFF MARKS*		
Test Paper (Code)	GEN GEN	EWS/OBC-NCL	SC/ST/PwD
Chemistry (CY)	27.81	25.03	13.9
 Candidates who are in the merit if the academic year 2022 23. For admission to various progra Application Processing System in There is NO need to acan a hain have been property submittedup. 	Ad category certificate if with this Socrecard,	Organizin (on bel Integror entities one to adm entres at ITS and ISC, for wi Joint the admission form C 2022 and 11 May 2022 with focus applications that are o considered.	nich they are sligible only NLINE at the JAM Onli al the relevant document omplete in all respects a
at the admitting institute(s). Suc (MEQs) of the programme(s) of programme and the precognised 15. For latest updates on ERs, MEC https://jam.ktr.ac.in/ andthe.Astm 6. The authoritizity of the contents of 247667, until July 20, 2022.	In cardidates muse satisfy the Eligibity, Require 1 the admitting Instituting). The fullment of EB conceptifying first consolidate weak with the depen- ies and other admission institute information. The issues Decoting available free/sin- disting Scatterard may be verified with the JAAD of rel should not be used by any parson/holdune with rel should not be used by any parson/holdune with	mentk (ERs) and Minimum is & MEOs is decided by t dmant, candidate must refer to the floor, Indian institute of Tach	Educational Qualificatio le department offening 1 JAM 2022 official webs tology Roomise, Roomis

 Antony Mera participated in Quiz competition and got third place organized by Yavarum Kelir, Thiran Valar Sangam, Namakkal.

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yava	umkelirsdø@gmail.com 28 gauchu.g, 2021		

 M. Ranjitha from III BSc Chemistry participated in poster cometiton and got third prized organized by IIC, St Mary's College, Autonomous, Thoothukudi.

St.Mary's College (Autonomous) (Re-accredited with "A+" Grade by NAAC) Thoothukudi-628 001 Institution's Innovation Council & PG & Research Department of Zoology	
CERTIFICATE OF APPRECIATION This is to certify that M.Ranjitha, III B.Sc Chemistry St.Mary's College, Thoothukudi has participated and won III Prize in the national level online poster competition on "Preparation of Herbal Drink" organised by IIC and PG and Research Department of Zoology, St.Mary's College (Autonomous), Thoothukudi, Tamil Nadu on 27th August 2021.	
Dr.Hermin Pasangha Head and Associate Professor of Zoology Science President Dr.Sr.A.S.J.Lucia Rose IIC Vice-President Principal & IIC President	

 Eight Projects are done by the students in the year 2021-22 under the guidance of the staff members of chemistry department.

A CONTRACTOR OF A CONT	Second States and Second States					
Student Name	Register Number	Project Title				
1.C.Arul Priya	19AUCH06	Impact Of Mixtures Of Copper And				
2.J.Ebciba Jesmila	19AUCH14	Ammonia On Chosen Biochemical Parameters In A Water Hyacinths				
3.S.Indhu Mathi	19AUCH16	r arameters in <i>T</i> water Hyaemins				
4.S.Karthika	19AUCH21					
5.S.Priyadarshini	19AUCH37					
6.B.Sneha	19AUCH43					
1.J. Arockiya Mashina	19AUCH05	Synthesis and Characterisation of L- Arginine and L-Cysteine Doped Nickel				
2.R. Mandhira Priya	19AUCH27	Sulphate Single Crystals				
3.A. Mercy	19AUCH30					
4.A. Panimaya Rosy	19AUCH34					
5.S. Subhalakshmi	19AUCH44					
6.R. Vanathi	19AUCH47					
1.J.Crayna	19AUCH09	Assessment of Soil Quality Parameters of Agricultural farmlands in Thoothukudi				
2. A.Deva Tharshini	19AUCH12	and Ramnad Districts using Digital Mini Soil Lab				
3. A.Infant Jenoviya	19AUCH17					
4. J.Paraloga Asha	19AUCH35					
5. R.Plaecia	19AUCH36					
6. M.Pushpa Veni	19AUCH38					
1.Alphonse Rajam T.	19AUCH02	Investigation of colour intensity of henna				
2. Varsha Antanitta S.	19AUCH48	extracts with natural and chemical substances by colourimetry				
3. Crossnie J.	19AUCH10					
4. Maria Sudhanci S.	19AUCH29					
5. Dhiva Dharshini K.	19AUCH13					

X

1.Sagaya Kanute J.	19AUCH40	Phytochemical analysis and study of rate of extraction of lawsone from lawsonia inermis				
2.Sheran Rose M.	19AUCH42	mermis				
3. Maria Selvi A.	19AUCH28					
4. Muthu Durga L.	19AUCH31					
5. Suriya C.S.	19AUCH46					
1.B.Anush Kamalam	19AUCH04	Biosynthesis of nanoparticles using				
2.AFrancis Vinista	19AUCH15	Moringa Oleifera				
3.SJackulin	19AUCH18					
4.Kavitha Priya	19AUCH23					
5.Vinarasi	19AUCH49					
1.Aarthi .S	19AUCH01	A study on synthesis of different				
2.Antony Lourthu Packia Jeya.A	19AUCH03	nanoparticles using extracts of <i>Terminalia Bellirica</i>				
3.DelosiniA.	19AUCH11					
4. Kavitha.M	19AUCH22					
5.Kavitha.R	19AUCH24					
6. Muthu Rathi.J	19AUCH32					
1. J. Janaki	19AUCH18	Eco-friendly Synthesis of Tellurium				
2. M. Kayathri	19AUCH25	Nanoparticles from Conus bettulinus and				
3. M. Ranjitha	19AUCH39	it's applications				
4. S.Shalika Begam	19AUCH41					
5. J.Strifina	19AUCH44					

✓ Best outgoing student is S. Varsha Antanitta

Rank Holders

- **VARSHA ANTANITTA S.** First Rank
- **PRIYADHARSHINI S.** Second Rank
- **VANATHI R**.. Third Rank



Community development programme

A hands on training programme on "Preparation of organic House Hold essentials" for empowering rural women with entrepreneurial skills was organized for the women of Anthoniyarpuram, Thoothukudi as a part of Unnat Bharat Abhiyan programme on 24th September 2021. II B.Sc.Chemistry students Antony Mera, Anto Maria Sherena, Krishnaveni, Mayeeswari, Malathi, Shalini, Macdalein Belciya, Antony Rathina Suguna, Gayathri, trained the women to prepare organic herbal oil, organic dish wash, herbal sanitizer, organic manure. Organizing a hands on training program involves gathering a lot of information, research, decision-making, planning, and collaboration of our students with people of the village community. Around 50 people got benefitted through this training. Fr.Dickson, Parish Priest of Anthoniyarpuram made the arrangements for smooth conduct of the training program.



Institution's innovation council

The Department of Chemistry along with the Institution Innovation Council has organised a Video Content Creation on the topic " A COVID 19 – A Chemist Perspective". Googl form was provided to upload their video content on or before 25th August 2021. The presentation of video content was arranged through google meet on 06.10.2021. 14 videos were received in Google classroom. During presentation, top 10 videos were selected and are asked to present. Dr. Shibana, Director of IIC was the evaluator. Top three presentation was announced and the winners were awarded with cash prize.



First Prize:

Varsha Antanitta . S, III B.Sc Chemistry, St.Mary's College (Autonomous), Thoothukudi.

Second Prize:

Ranjitha M, III B.Sc Chemistry, St.Mary's College (Autonomous), Thoothukudi.

Third Prize:

Muthukavitha . M, , II B.Sc Chemistry, St.Mary's College (Autonomous), Thoothukudi.



Industrial visit

Students of III B.Sc., Chemistry (42) and II B.Sc., Chemistry (39) along with four staff members Dr. Irudaya Antonat Sophia, Dr. A. Lakshmi, Dr. B. Divya and Dr. G. Amalajothi Grace visited Aavin, Tirunelveli as part of the star college scheme, sponsored by DBT, New Delhi on 7th May 2022. Inside the plant students were divided into two groups. Before entering the plant they were clearly instructed about the processing of milk. Milk from various sources nearby were collected, at first chilled to 5oC and then steam boiled to around 800C. Chilling process is done by ammonia plant. Then it is homogenized, cooled ant the sent to automatic packaging unit. Processing of ghee was also done in the nearby unit.





MOOC Courses

Varsha Antanitta of III BSc Chemistry completed two MOOC courses named introduction to molecular thermodynamics and stereochemistry with 47% and 43% respectively.

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Prof. Jayanta Mukhopadhya Dean Outreach IIT Kharagour		Feb-Apr 20 week cour			Prof. Debjani Chakraborty Coerdinator, NPTEL IIT Kharagour
Indian Institute of Tec	hnology Kharagpur				
Roll No:NPTEL22CY31S1433	0423		To validate	e and check s	scores: https://nptel.ac.in/p





End Semester Examination Results

End Semester Examination Results are declared on 30.06.2022 and 44 BSc Chemistry students appeared in the final examinations and 44 students passed with the pass percentage 100

Placement

- S.Aarthi and C.Arul Priya are place in Tuticorin Alkali Chemicals & Fertilizers Limited.
 P4RX+8MP, Spic Nagar, Muthiahpuram, Thoothukudi, Tamil Nadu 628005.
- J. Muthurathi is placed in ZOI FINTECH SERVICES PVT LTD, Software Company, Tirunelveli.
- A. Vinnarasi is placed in Divine myndvision & therpy centre, Chennai.
- 🐥 J. Kavitha Priya is placed in AVM Hospital Pharmacy, Thoothukudi

Students progression to higher education.

17 students joined various institutions to pursue MSc. Chemistry and 2 students joined DMLT.

