The academic year 2021-22 of the department started with the commencement of classes for the III and V semester of the BSc programme, on 1st June 2021 via Online Mode. Offline classes were resumed from 4th October 2021.

This annual report will provide an overview of the department's activities during the past year, including academic achievements, research accomplishments, and outreach efforts. This year we organized several programmes, including seminars, invited talks, exhibitions etc. We invited scholars from other institutions to share their research and exchange ideas with our faculty and students. The department also engaged with the local community through various outreach efforts.

I. MISSION AND VISION

To develop department as centre of excellence in all aspects of education.

To promote and inspire the fundamentals of chemistry through our UG Course.

II. STUDENT STRENGTH

				Gen	eral	OBC		Hind	u	Mus	lim	Chris	tian	SC	ST	Total
Year	Class	G	В	G	В	G	В	G	В	G	В	G	В			
	D3	25	10													35
2021 2022	D2	25	16													41
2022	D1	27	2	2	1	22	1	6	1	18	1	0	0	0	3	29
	Total Strength						105									

III.UNIVERSITY EXAMINATION RESULTS

Programme	No of studentsattended the examination	No of students passed	Pass %
BSc Chemistry	23	18	78%

IV. FACULTY DETAILS

Sl. No	Name	Designation	Highest Qualification	Date of joining/relieving
1.	Dr. Thomas Thevara	HOD	PhD	June 2019
2.	Sonima V	Assistant Professor	MSc	June 2018
3.	Shahina P H	Assistant Professor	MSc	January 2020
4.	Fathima Shadin P	Assistant Professor	MSc	November 2021
5.	Binsha Basheer	Lab Assistant	BSc	February 2022

V. DEPARTMENTAL ACTIVITIES

1. GANDHI JAYANTHI CELEBRATION

On 2 nd and 3 rd October our students participated in a value promotion webinar series conducted by centre for ethics and human values and research department of zoology, Seethalakshmi Ramaswami College, Trichy in collaboration with OISCA international Japan and Department of chemistry, WMO Arts and Science College, Muttil. There held a discussion on 'The quantifiers of quality life' and 'Gratitude- the uplifting value'. The session was handled by Dr. S. Usha, Head of the department of Sanskrit, SRC, Trichy.

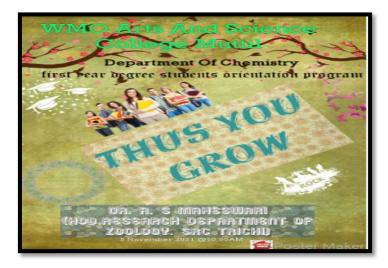
Platform: GoogleMeet

https://meet.google.com/oqw-zrni-taq



2. ORIENTATION PROGRAMME

Conducted an orientation programme for first year UG students entitled 'Thus you Grow' on 5th November 2021. Resource person was Dr. A.S. Maheswari, Head of the research department of zoology, SRC, Trichy.



3. CHRISTMAS CELEBRATION

Conducted Christmas celebration for students on 22/12/2021.



4. WOMENS DAY CELEBRATION

Department of chemistry organized an invited talk on 'Women Empowerment' on international women's day, 8th march 2022. Dr. A.S. Maheswari, Head of the research department of zoology, SRC, Trichy was the resource person.

Platform: google meet

Meet.google.com/dci-yerb-rdo



5. CAREER COUNSELLING

Department of chemistry participated a central university orientation programme for final year UG students by faculties from TRIZ learning app on 20th January 2022.



6. PROGRAMMES ON ENVIRONMENTAL PROTECTION



As a part of **World Environment Day** in collaboration with OISCA held lecture on ecosystem conservation by Head of the department of chemistry Dr.Thomas Thevara on 5th June 2021. The Environmental Day Celebration successfully engaged participants in various activities and initiatives, raising awareness about environmental issues and encouraging sustainable practices. The event served as a platform for collaboration and shared commitment to creating a greener and healthier planet.



Discussion and pledge on conservation of our planet as a part of **World Mother Earth Day** on 21st April 2022. Dr. Thomas Thevara handled the lecture. The session inspired individuals to take action and make a positive impact on the environment. By fostering a sense of responsibility and encouraging sustainable behaviors, the lecture session played a vital role in promoting a greener and more sustainable future.

7. STUDY TOUR

Department of Chemistry organised a study tour for D3 students to Alappy and Munnar from 7th January 2022 to 10th January 2022. The study tour to Alappuzha and Munnar provided the D3 students with a comprehensive and enriching experience. The tour allowed them to delve into the cultural heritage of Alappuzha and witness the natural beauty of Munnar's tea gardens and wildlife. The students gained insights into the historical significance, environmental importance, and local traditions of both destinations.



VI. EXTENSION ACTIVITIES

1. Extension Activity on Sanitizer Making

On 25th November 2021, the Department of Chemistry conducted extension activity on sanitizer making, led by Dr. Thomas Thevara, with the participation of 20 students and faculty members. The objective of the activity was to produce high-quality sanitizer and distribute it to all other departments and offices of the institution, to promote the importance of hand hygiene and contribute to preventing the spread of diseases. The activity included a brief lecture on hand hygiene, followed by a hands-on experience in the Chemistry laboratory, where the participants produced the sanitizer, which was tested for effectiveness and packaged in small bottles for distribution.



2. Visit to Agrochemical Division of Brahmagiri Development Society in Wayanad

On 20th April 2022, a group of 30 students from department of chemistry visited the agrochemical division of Brahmagiri Development Society in Meenangadi, Wayanad. The visit included a tour of the soil analysis lab, soap and detergent production unit, and water analysis lab. The staff members of Brahmagiri, Ms. Shini KS, Mr. Jomish, and Mr. Babu, provided detailed explanations of the analysis techniques used in each of the units. The visit was a great learning experience for the students, who gained insights into various aspects of agrochemical production and analysis. This extension activity provided a hands-on experience for the students and allowed them to understand the practical application of their classroom learnings.





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VII. CERTIFICATE COURSE

The Department of Chemistry offers two certificate courses to cater to the growing demand for specialized knowledge in the fields of Environmental Chemistry and Detergents and Hand Sanitizer Making. These courses aim to provide participants with a comprehensive understanding of the respective subjects, equipping them with practical skills and theoretical knowledge to address environmental challenges and contribute to the production of safe and effective cleaning products. Course Coordinator was Dr. Thomas Thevara.

Sl. No	Course Title	No. Of Students Attended
1.	Environmental Chemistry	25
2.	Detergents and Hand Sanitiser Making	20

VIII. BRIDGE COURSE

The Department of Chemistry offers a bridge course titled "Introduction to General Chemistry" to provide students with a solid foundation in the fundamental concepts of chemistry. This course is designed for students who wish to refresh their knowledge before pursuing advanced chemistry courses. The bridge course serves as a stepping stone, ensuring that all students have a common understanding of key principles before embarking on more specialized topics.

Sl. No	Course Title	No. Of Students Attended	Course Coordinator
1.	Introduction to General	29	Shahina P H
	Chemistry		

IX. BEST PRACTICES

- Hand Sanitizer Making and Distribution
- Proper Mentoring System
- Remedial Coaching
- Career Counselling and Special Guidance
- Quality teaching and Research
- Ethical Practices

X. STUDENT PROJRCTS

NAME	REGISTER NUMBER	торіс	GUIDE	
RISHNA RAHMAN	WMATSCH027			
FATHIMA RUSHDA	WMATSCH020	PREPARATION OF	THOMAS THEVARA	
ARFIDA P V	WMATSCH016	ASPIRIN FROM ACETIC ANHYDRIDE AND SALICYLIC ACID		
KADEEJA K T	WMATSCHO22	SALICILIC ACID		
ANSEERA SHERIN	WMATSCH015			
SAHLA D	WMATSCH001			
RIFA SALU	WMATSCH026			
AJITH KRISHNA N M	WMATSCH026	EXTRACTION OF SILICA FROM RICE HUSK	SHAHINA PH	
JAYASOORYAN K	WMATSCH035	FROM RICE HUSK		
SWARARAGH E SURESH	WMATSCH012			
SHAHANABANU	WMATSCH029			
MOUSHIYA SHERIN	WMATSCH023	BIODEGRADABLE		
NAHALA SADIK	WMATSCH011	PLASTIC	SHAHINA PH	
AROMAL	WMATSCHO34	PRESENTATION		
RAMEES	WMATSCH036			
NISHANA THASLIN	WMATSCH025			
NISHANANESRIN	WMATSCH024	QUALITATIVE ANALYSIS OF THE PRESENCE OF	40.Th. 1.	
SEHENA SHERIN U	WMATSCH028	PESTICIDE RESIDUES IN	SONIMA V	
UNAISA K	WMATSCH032	VARIOUS FRUITS AND VEGETABLES		
ANEESHA BAKKER U	WMATSCH014			
FATHIMA JISHANA K	WMATSCH019			
SWATHI S	WMATSCH031			
MAHA SALEEM	WMATSCH010	STUDY OF RED CABBAGE JUICE	THOMAS THEVARA	
MOHAMMED FAYAS	WMATSCH004	INDICATOR		
INSHANA	WMASSCH003			
SANA NOURIN	WMATSCH002			
MUHAMMED ADHIL	WMATSCH005	ESTIMATION OF CALCIUM OXIDE IN		
DEENA JAHAN	WMATSCH018	SELECTED CEMENT	SONIMA V	
AKHILOSH	WMATSCH037	SAMPLES		
ADITHYA PRADEEP	WMATSCH013			
ATHULYAMANI C M	WMATSCH009	BIOMEDICAL WASTE	THOMAS THEVARA	
SNEHA CS	WMATSCH030	MANAGEMENT		
ANSIYA M	WMATSCH008			
AYSHA MUHSINA O M	WMATSCH017			

XI. ACHIEVEMENTS OF STUDENTS

- **Muhammed Sanoop** of D3 Chemistry secured 3rd place in Calicut University intercollegiate wushu championship 2021 (above 90 kg).
- **Abu Sufiyan** of D3 Chemistry secured 3rd place in Calicut University intercollegiate Fencing Championship.
- A large fraction of the students of the department are members of NSS and NCC.
- Maha Saleem of D3 chemistry secured NCC C certificate.
- Muhammed E, Ameena Shirin and Fathimath Ameera of D2 Chemistry passed
 NCC B Certificate Examination.

XII. PAPERS/ POSTER/ INVITED TALKS BY FACULTY

- **Dr. Thomas Thevara** delivered keynote address in the inauguration of the silver jubilee celebrations of the people's campaign programme of Sulthan Bathery Municipality on 17th of August 2021.
- Invited Talk by **Dr. Thomas Thevara** in Water Literacy Seminar by Brahmagiri Development Society at Vellamunda grama panchayath on 23rd November 2021.
- Dr. Thomas Thevara delivered talk on OISCA Environment Award Distribution Ceremony on 5th
 December 2021.
- Talk by Dr.Thomas Thevara on the 60th Annual meet of OISCA held at Tagore Hall Calicut On 7th January 2022.
- **Dr. Thomas Thevara** handled a session in a seminar organized by OISCA and Sreyas Sulthan Bathery to spread the themes of world forestry day, world water day and world meteorological day on 21st march 2022.







XIII. REMEDIAL COACHING

This program was designed to provide support and assistance to academically slow learners as well an advance learner in order to enhance their academic performance and understanding of the subject matter. The primary objective of the Remedial Coaching program was to address the diverse learning needs of BSc Chemistry students and offer tailored guidance to both academically slow learners and advance learners. The program aimed to bridge knowledge gaps, reinforce foundational concepts, and provide additional challenges for students who were excelling in their studies. At the beginning of the program, a diagnostic assessment was conducted to identify the strengths and weaknesses of each participating student. This assessment helped in understanding the specific areas where students required remedial support or additional challenges.

XIV. SLOW AND ADVANCE LEARNERS PROGRAMME

The Slow and Advanced Learners Program is a specialized educational initiative designed to cater to the diverse learning needs of students in order to maximize their academic potential. This program recognizes that students have varying learning abilities and aims to provide tailored support to both slow learners who require additional assistance and advanced learners who need more challenging educational experiences.

The Slow Learners Program aims to bridge knowledge gaps, reinforce foundational concepts, and enhance the overall academic performance of students who face difficulties in keeping pace with the regular curriculum. Key features include:

- Personalized Attention
- Remedial Instruction
- Supportive Learning Environment
- Progress Monitoring and feedback

The Advanced Learners Program caters to students who exhibit exceptional abilities and a strong grasp of the subject matter. This program provides advanced coursework, challenges, and opportunities to expand their knowledge beyond the regular curriculum. The key features of the program for advanced learners include:

- Enrichment Activities
- Accelerated Learning Opportunities
- Mentoring and Guidance

Collaborative Learning

XV. MENTORING SYSTEM

Mentoring System implemented by the Department of Chemistry ensures a proper mentor-mentee relationship, where mentors guide and support a specific number of students, allowing for constant monitoring, counseling, and assistance in both academic and economic matters. The primary objective of the Mentoring System is to foster a supportive environment for students, where they can receive personalized guidance and support to enhance their overall academic performance and well-being. The system aims to establish strong mentor-mentee relationships and create a platform for addressing various challenges faced by students, be it academic or economic.

Sl. No	Name of the Mentor	No. Of Mentees
1	Dr. Thomas Thevara	35
2	Sonima V	35
3	Shahina P H	35

XVI. HYBRID MODE OF TEACHING

The Department of Chemistry has implemented a Hybrid Mode of Teaching, blending traditional classroom instruction with online learning platforms, to provide an innovative and flexible educational experience for students. This hybrid approach combines the advantages of face-to-face interaction with the convenience and accessibility of online resources, fostering a dynamic and engaging learning environment. The approach aims to enhance student engagement, promote active learning, and provide flexibility in accessing course materials and resources.

Sl. No	Faculty	Strategies and Techniques
1.	Dr. Thomas Thevara	Youtube, PPT, Google Class room, Virtual Lab
2.	Sonima V	Google class room
3.	Shahina P H	Google class room, Teachmint
4.	Fathima Shadin P	Google meet (live interactive sessions), PPT

XVII. FEEDBACK SYSTEM

The Department of Chemistry has implemented a comprehensive Feedback System that enables students to provide valuable feedback and suggestions at the end of each semester. This system is designed to gather insights from students regarding their learning experiences, course content, teaching methodologies, and overall satisfaction with the department's offerings. The feedback system plays a crucial role in continuously improving the quality of education and addressing any concerns or areas for enhancement. The Feedback System follows a well-defined process to ensure the collection, analysis, and utilization of feedback in an efficient and effective manner. Process includes feedback collection and analysis, feedback evaluation and action planning and implementation.

XVIII. INTERNAL EVALUATION SYSTEM

The Department of Chemistry maintains a transparent and fair approach to Continuous Internal Evaluation, ensuring that students' performance is evaluated consistently and equitably. The evaluation process incorporates multiple components, such as internal tests, seminars, vivas, overall classroom performance, attendance, and assignments, all of which are carefully recorded and considered to assign internal marks. In case of any grievances, makeup tests are conducted to provide students with an opportunity to improve their scores.

FARE WELL

Adieu Seniors

FAREWELL
Department of Chemistry
Friday, March 25th, 2022

On

25th March 2022, was a vibrant affair as the D1 Chemistry students gave a grand sent off party to the graduating D3 students. The event was fittingly entitled "Adieu Seniors," it was a perfect tribute from the D1 Chemistry





students to their D3 seniors.



