

The academic year 2022-23 of the department started with the commencement of classes for the III and V semester of the BSc programme, on 1st June 2022. First semester classes started from 19th September 2022.

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

Year	Class	G	B	General		OBC		Hindu		Muslim		Christian		SC	ST	Total
				G	B	G	B	G	B	G	B	G	B			
2021 2022	D3	24	16													40
	D2	26	2													28
	D1	17	5													22
Total Strength															90	

III. UNIVERSITY EXAMINATION RESULTS

Programme	No of students attended the examination	No of students passed	Pass %
BSc Chemistry	37	24	67.5%

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.	Dhanisha Salim	Assistant Professor	MSc	Feb 2022- March 2022
6.	Binsha Basheer	Lab Assistant	BSc	February 2022

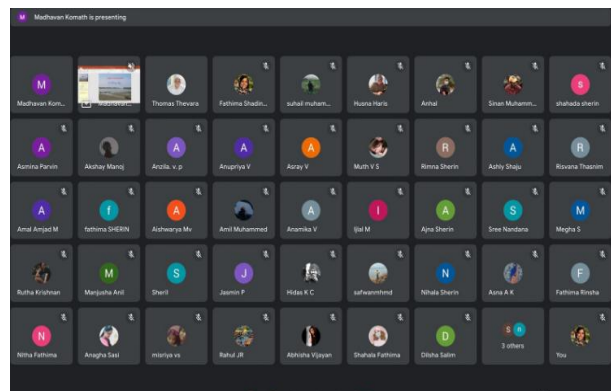
V. DEPARTMENTAL ACTIVITIES

1. WORLD HYDROGRAPHY DAY

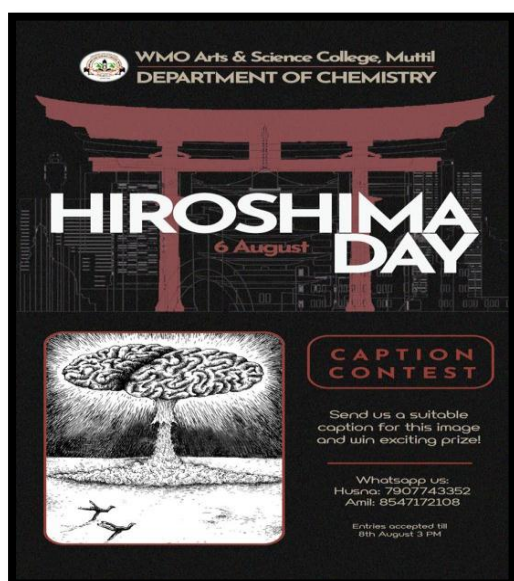


On 25th June 2022, the Department of Chemistry conducted a session to celebrate World Hydrography Day, which was handled by Dr. Madhavan Komath, a retired scientist from CWRDM. The event saw participation from 45 students who were eager to learn more about hydrography. Dr. Komath provided an introduction to hydrography and its importance, covering various aspects such as principles of bathymetry, marine geodesy, and oceanography. He also discussed the challenges in hydrographic surveying and advancements in technology.

The session ended with a Q&A session where students were able to clarify their doubts and seek further information on hydrography. Overall, the session was informative and engaging, providing a deep insight into the field of hydrography. The Department of Chemistry is grateful to Dr. Komath for sharing his expertise and knowledge with the students.



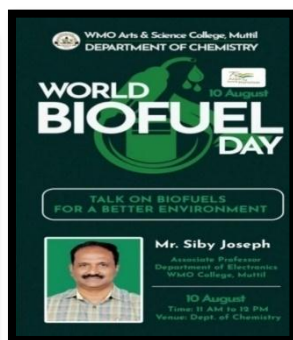
2. HIROSHIMA – NAGASAKI COMEMMORATION



On 6th August 2022, the Department of Chemistry conducted an interdepartmental caption contest as a part of Hiroshima Day. The contest aimed to raise awareness among students about the importance of promoting peace and to commemorate the victims of the atomic bombings of Hiroshima and Nagasaki. The captions were judged based on their creativity, originality, and relevance to the theme. The contest was a success, with many students showcasing their creativity and awareness of the issues. It was an excellent opportunity for students to express their views on promoting peace and eliminating nuclear weapons.

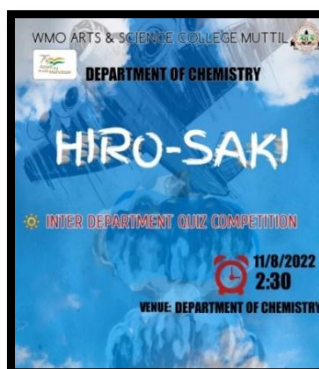
3. TALK ON BIOFUEL FOR ECONOMIC SUSTAINABILITY

On 10-08-2022, Wednesday at 11 AM, Department of Chemistry was conducted a session on “Biofuel for economic sustainability and for a better environment “as a part of world biofuel day celebration. The resource person of the session was Prof. Siby Joseph, Associate Professor, Department of Electronics, WMO Arts and Science College, Muttil. The session was highly informative and 50 students were actively participated in the programme.



4. INTER DEPARTMENTAL QUIZ COMPETITION

Students of D3 Chemistry, WMO Arts and Science College conducted a quiz competition on 12th august 2022, Thursday in accordance with Hiroshima and Nagasaki Days. 33 students (11 Team) from various department participated in the program and we had 3 different patterns of the quiz. Ms. Fathima Shadin, Asst.Professor, Department of chemistry was the quiz master. Students from department of mathematics secured first place.



5. DEBATE CLUB INAUGURATION

The inauguration of the debate club CATALYST of chemistry department was held on Friday 19 August 2022. The function was convened by Dr.Thomas Thevara ,Head of the department of chemistry. The programme was coordinated by Ms.Fathima Shadin, Asst.Professor, Department of chemistry. Dr.Biju.K G, Head of the department of physics, Sonia V, Asst.Professor, Department of Chemistry offered their felicitations.

D3 students conducted a debate on 19th august 2022. The subject of the debate was ‘**Advantages and disadvantages of british administration**’ in accordance with Independence Day celebration. The debate was between two groups- D2 VS D3. Ms. Rubeena, Asst. Professor, Department of economics monitored the function. The debate lasted up to 30 minutes.



6. INVITED TALK ON ENTREPRENEURSHIP FOR ECONOMIC FREEDOM

On 25-08-2022, Thursday, Department of Chemistry conducted a session on Entrepreneurship for economic freedom, an introduction to pharmaceutical chemistry. The session was led by Mr. Sakthiprasad, chemist, Brahmagiri Development Society. The objective of the class was to discuss the advanced applications of pharmaceutical chemistry and its importance. About 45 students were participated in the session.



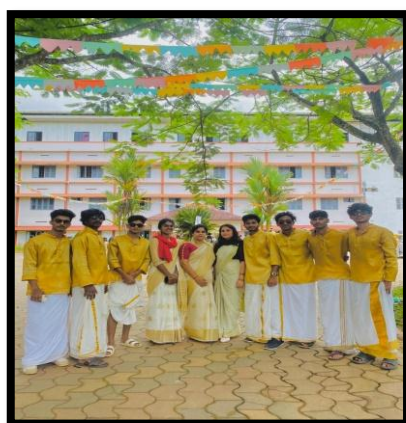
7. HAIKU CONTEST



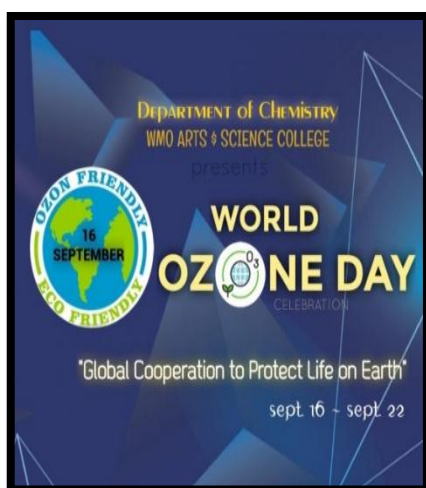
On 12-8-2022 Friday, Department of Chemistry organized an inter department haiku writing competition on the topic “Equality” as a part of azadi ka Amrut Mahotsav. The session was monitored by Ms. Binsha Basheer and Ms. Fathima Shadin. 16 students from various department were participated and proved that the pen is mightier than the sword. Anshitha from Department of Physics secured first place.

8. ONAM CELEBRATION

The Chemistry department celebrated Onam festival on September 1st, 2022. The celebration was a grand affair, with all the staff members and students of the department participating in the festivities. The highlight of the celebration was the Onam feast. It provides a platform for students and staff to come together and celebrate their cultural heritage.



9. OZONE DAY CELEBRATION



On 16th September 2022, the Department of Chemistry conducted a digital poster making competition as a part of the celebration of World Ozone Day. The competition was open to students from various departments, and it aimed to raise awareness about the importance of preserving the ozone layer. The participants were required to submit their posters in a digital format, and the posters were judged based on their creativity, originality, and relevance to the theme. The competition saw enthusiastic participation from students, who showcased their artistic skills and their commitment to environmental causes.

10. GANDHI JAYANTHI CELEBRATION

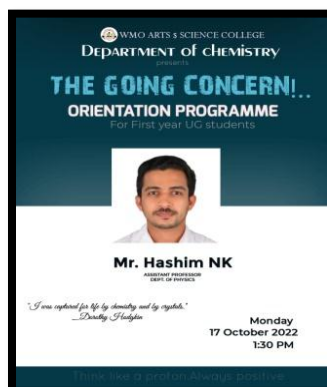
On September 30th, 2022, the department of chemistry in collaboration with SRC College Centre for Ethics and Human Values and OISCA International Japan conducted an online session on Gandhian philosophy and the significance of Gandhian principles in attaining real freedom. The resource persons for the session were Dr. Thomas Thevara, Professor and Head of the department of chemistry at WMO College and Dr. S. Usha, Associate Professor and Head of the department of Sanskrit and Coordinator of the Centre for Ethics and Human Values at SRC Trichy.

The session was attended by 28 students from WMO College. The session focused on the relevance of Gandhian philosophy in contemporary times, emphasizing the principles of non-violence, truth, and self-sufficiency. The resource persons also discussed the importance of promoting these principles in academia and society at large. The session was informative and provided the students with a deeper understanding of Gandhian principles and their relevance in today's world.

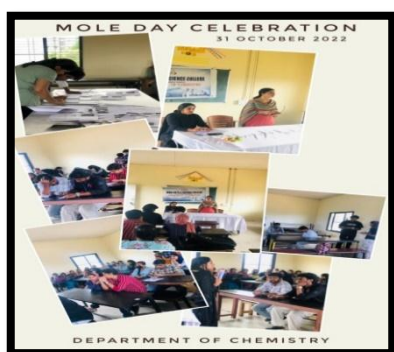


11. ORIENTATION PROGRAMME FOR 1ST UG

The Department of Chemistry organized an orientation program titled "The Going Concern" on 17th October 2022 for the first-year undergraduate students. The program was led by Mr. Hashim N K, an Assistant Professor from the Department of Physics. The program aimed to introduce the students to the importance of being aware of the current state of affairs and the need for continuous learning and development. The program covered various topics such as the current trends in science and technology, the role of innovation in the field of science, and the need for interdisciplinary learning.

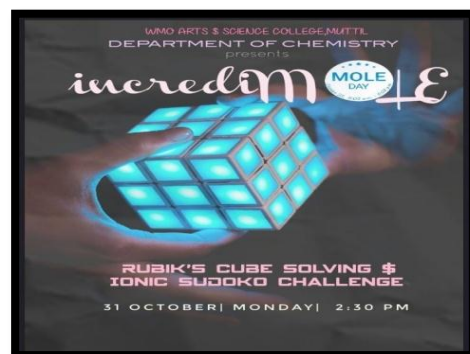


12. INTERNATIONAL MOLE DAY CELEBRATION



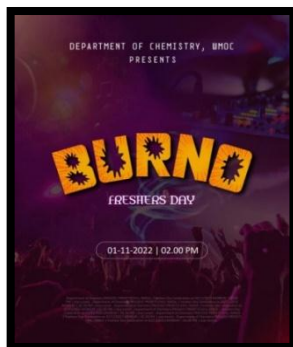
On 31st October, the Department of Chemistry organized a series of interdepartmental competitions to celebrate International Mole Day. The event began with an inaugural address by Dr. Viji Paul, the Principal In charge of the college. The competitions included a quiz on general chemistry and current affairs, a Rubik's Cube solving competition, and a Sudoku solving competition.

The quiz competition was open to students from all departments, and it tested their knowledge of basic chemistry concepts as well as current affairs related to science and technology. The Rubik's Cube solving competition challenged participants to solve the classic puzzle in the shortest possible time, while the Sudoku solving competition tested their logical and mathematical skills.



13. FRESHERS DAY AND PRIZE DISTRIBUTION

On 1ST November 2022, the Department of Chemistry conducted a Freshers' Day event, which included the distribution of prizes to students who won various competitions held as a part of the Azadi Ka Amrut Mahotsav celebrations. The event was held to welcome new students to the department and to celebrate the spirit of independence and national pride. The winners were awarded prizes by the college principal Dr. T.P Muhammed Fareed, Viji Paul, Head of the department of chemistry and Dr. Thomas Thevara, HOD Chemistry. The event concluded with a cultural program by the students. The event provided an opportunity for the students to showcase their talents and creativity.



14. ORIENTATION ON CENTRAL UNIVERSITY ENTRANCE EXAMINATION

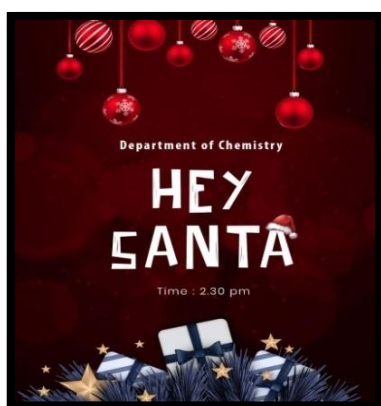


On December 1st, 2022, a career guidance session was held for 6th-semester BSc Chemistry students, with a focus on the central university entrance examinations. The session was conducted by ALCHEMY institute for science, Calicut. It was aimed to provide students with information about the various entrance exams conducted by central universities for admission into postgraduate programs. The faculty members provided information about the exam pattern, syllabus, and eligibility criteria, as well as tips and strategies to prepare for

the exams effectively.

15. CHRISTMAS CELEBRATION

On December 22nd, 2022, the students of the Department of Chemistry conducted a department-level Christmas celebration, which was attended by all the students and faculty members. The celebration was held in a festive atmosphere, with decorations and music creating a cheerful ambiance. The students organized various activities which were enjoyed by all the participants. The celebration was a great opportunity for the students and faculty members to come together and share the joy and spirit of the festive season.



16. ASSOCIATION INAUGURATION AND MAGAZINE RELEASE

The Department of Chemistry organized an Association inauguration event titled 'Chemclave' on 3rd March 2023. The event was inaugurated by Dr. Riyasudhin. N, the Head of the Department of Chemistry, WMO IG College, Panamaram who also served as the Chief Guest. The event saw the release of the department's magazine 'RASAM,' and there was a prize distribution ceremony for students who actively participated in the college arts fest. Additionally, there were sessions on Nano chemistry, led by Dr. Riyasudhin, and a motivational training session for the students by Mr. Nuhais. The event was well-received, and students were actively engaged in both the sessions. The event was a grand success and provided a platform for students to enhance their knowledge and skills in chemistry. It also encouraged them to participate in extracurricular activities and recognize their efforts and achievements.



17. WORLD SPARROW DAY CELEBRATION



The Department of Chemistry celebrated World Sparrow Day on March 20th, 2023, with an inauguration by Dr. Viji Paul, Head of the department of mathematics followed by an invited talk by Dr. Thomas Thevara, head of the department of chemistry. The session was attended by 25 students who were keen to learn about sparrows and their conservation.

Dr. Viji Paul highlighted the importance of such events in creating awareness about conservation efforts, while Dr. Thomas Thevara shared his extensive research on the subject. The talk was highly informative and engaging, inspiring the students to take an active interest in preserving the sparrow population. Overall, it was a successful event that provided valuable insights and information to the attendees.



18. INVITED TALK ON GENDER PARITY

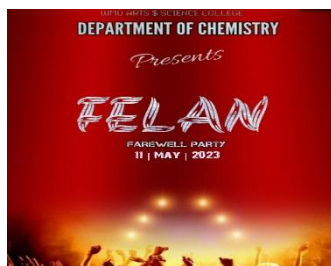


On March 22nd, 2023, the Department of Chemistry conducted a session titled "**Gendered Spaces: Challenging the Binary and Embracing Diversity.**" The session was handled by Ms. Thasmiya Rasheed, an Assistant Professor of the Department of English. The objective of the session was to create awareness about gender diversity and challenge the traditional binary notions of gender that often marginalize individuals who do not conform to the norms. During the session, Ms. Rasheed discussed the societal constructs that have created gendered spaces and how they have been

perpetuated over time. She also highlighted the importance of acknowledging and accepting gender diversity in all its forms. The participants were encouraged to challenge the binary and embrace the diversity of gender identities and expressions. The session provided valuable insights into the ways in which gendered spaces can be inclusive and diverse, and highlighted the need for continued efforts to create safe and wel-

coming environments for all individuals regardless of their gender identity.

19. FARE WELL



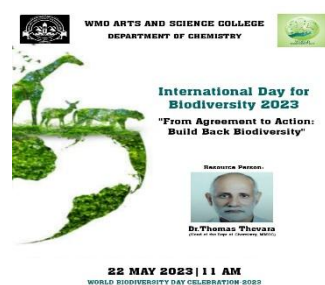
On 11th May 2023, was a vibrant affair as the D2 Chemistry students gave a grand sent off party to the graduating D3 students. The event was fittingly entitled "FELAN," it was a perfect tribute from the D2 Chemistry students to their D3 seniors.

20. INTERNATIONAL DAY FOR BIODIVERSITY 2023



On May 22, 2023, the Department of Chemistry organized a World Biodiversity Day celebration with the theme "**From Agreement to Action: Build Back Biodiversity.**" The event aimed to raise awareness about the importance of biodiversity conservation and promote actions to restore and protect our natural ecosystems. Dr. Thomas Thevara, an eminent expert in the field, was invited as the resource person to share his knowledge and insights.

The program began with an opening address by the Principal, Dr. T. P. Muhammed Fareed, who emphasized the significance of biodiversity preservation and the role of the Department of Chemistry in contributing to this cause. Following the enlightening session, the staff members actively participated in a tree planting program. They recognized the importance of trees in maintaining ecological balance and providing habitat for various species.



VI. STUDENT PRESENTATIONS

2. DISCUSSION ON ENVIRONMENTAL ISSUES



On 28th June 2022, the Department of Chemistry conducted a discussion on environmental issues for final year Chemistry students as a part of their audit course. The session aimed to create awareness among the students about the current environmental challenges and the role of chemistry in addressing these issues.

The event saw participation from 30 students who were enthusiastic and eager to learn more about the topic. The discussion covered various topics such as air pollution, water pollution, and climate change, and their impact on the environment and human health. The students actively participated in the discussion, asking questions and sharing their opinions on the issues. The discussion also focused on the role of chemistry in finding solutions to these environmental challenges, such as developing sustainable materials, renewable energy sources, and waste management techniques. The session was informative and engaging, providing the students with a better understanding of the environmental issues and the need for sustainable practices.



2. PRESENTATION ON FREEDOM STRUGGLE AND SCIENTIFIC COMMUNITY

Chemistry department organized a discussion on the topic “freedom struggle and scientific community” on 26-08-2022, Friday. Mr. Hashim, Asst. Professor, Department of Physics was the chief guest and presented his views on the topic. Mr. Madhusudhana, Head of the department of economics and Mr. Unais, Asst. Professor of B.COM.CA offered their felicitations. An inter department presentation competition were held on the same topic. Sravan and Abhinav from department of economics won the competition. The session was highly inspiring and informative. Fthima Husna and Amil K of Chemistry department



participated.

3. POSTER PRESENTATION OF STUDENTS

Hanana K M and Yaseen Mohammed Hamaz of D1 Chemistry participated in poster presentation competition organized by WMO IG College, Panamaram as a part of science day on 28th February. The title of the poster was Nanotechnology in cancer diagnostics and treatment- A review.

VII. INDUSTRIAL VISITS

1. IV - D2 STUDENTS



On November 26th, 2022, 25 second-year B.Sc. Chemistry students visited the Benchmark Tea and Chocolate factory in Ooty as part of their academic curriculum. During the visit, the students learned about the various processes involved in the production of tea and chocolate, from harvesting and processing to packaging and distribution. The students also had the opportunity to taste different varieties of tea and chocolate and interact with the factory workers, who provided them with valuable insights into the industry. Overall, the visit was a great learning experience for the students, allowing them to gain practical knowledge about the field of food chemistry and production.

2. IV - D3 STUDENTS

On January 30th, 2023, the final year B.Sc. Chemistry students visited Gurucharan Plastic Processing Machineries in New Mangalore as part of their academic curriculum. The students were given a detailed tour of the manufacturing unit, during which they learned about the various processes involved in the production of plastic machinery, from design and engineering to production and assembly. The students also had the opportunity to interact with the engineers and technicians, who explained the various aspects of the machinery and their applications. The visit provided the students with a practical understanding of the application of their knowledge in chemistry in real-life situations and gave them a glimpse into the world of plastic processing machinery manufacturing.



VIII. EXTENSION ACTIVITIES

1. VISIT TO KERALA VETERINARY AND ANIMAL SCIENCES UNIVERSITY

On 20-08-2022 Saturday, Department of chemistry organized a visit to Kerala Veterinary and Animal Sciences University to study the method of scientific waste management. The invention is an outcome of inventor Dr. John Abraham's patented research "Biodiesel produced from rendered chicken oil". The bio-diesel from slaughtered chicken waste that offers mileage of over 38km a liter at around 40 percent of the current price of diesel and lowers pollution by half. 31 students participated.



2. LABORATORY CLEAN UP

In April 2022, the students of D1 chemistry class took up the task of cleaning their laboratory as an extension activity. The students worked together to ensure that the laboratory was spotless and organized. They cleaned the floors, desks, shelves, and equipment, ensuring that everything was in its proper place. The clean-up activity not only created a healthy and safe environment for learning but also taught the students the importance of cleanliness and responsibility.



IX. 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.

Sl. No	Course Title	No. Of Students Attended
1.	Environmental Chemistry	25
2.	Chemistry in Service of humanity	30

X. 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 Chemistry	22	Fathima Shadin P

XI. BEST PRACTICES

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

XII. STUDENT PROJRCTS

NAME	REGISTER NUMBER	TOPIC	GUIDE
Asna A K	WMAUSCH010	Extraction of nicotine sulphate from cigarette samples	Shahina PH
Rutha Krishnan	WMAUSCH015		
Shijina PJ	WMAUSCH030		
J R Rahul	WMAUSCH034		
Muhammed E	WMAUSCH037		
Muhammed Safwan T	WMAUSCH005	Detection of common adulteration in milk	Sonima V
Muhlis Bin Muhammed	WMAUSCH007		
Anupriya V	WMAUSCH009		
Akshay Manoj	WMAUSCH018		
Husna P	WMAUSCH023		
Thwayyiba P M	WMAUSCH031	Study on water quality analysis of different samples	Sonima V
Hanina Nouri	WMAUSCH002		
Shahala Fathima	WMAUSCH016		
Ajnas	WMAUSCH017		
Ameena Shireen P	WMAUSCH020		
Fathimath Ameera	WMAUSCH022	Qualitative analysis of coconut water and its soft drink	Shahina PH
Muhammad Ashique N K	WMAUSCH035		
Ajna Sherin	WMAUSCH001		
Risvana Thasnim E B	WMAUSCH003		
Mufliha Thasneem K T	WMAUSCH012		
Namitha Anil	WMAUSCH027	Analytical approach in improving the soil environment of WMO campus	Dr. Thomas Thevara
Shahna Sharafath P	WMAUSCH029		
Fathima Sherin	WMAUSCH011		
Muhammed Suhail	WMAUSCH040		
Nadiya Rauf O	WMAUSCH026		
Nihala Sherin K P	WMAUSCH013	Acetic acid in Vinegar	Sonima V
Resha Fathim A K	WMAUSCH014		
Rifa V P	WMAUSCH028		
Amal Amjad M	WMAUSCH004		
Ashly Shaju	WMAUSCH021		
Manjusha T A	WMAUSCH024	A study on ice cream processing & Quality analysis	Fathima Shadin P
Muth V S	WMAUSCH025		
Sheril P S	WMAUSCH041		
Amil K	WMAUSCH032		
Ijlal M	WMAUSCH033		
Muhammed Anhal	WMAUSCH036		
Muhammed Sinan	WMAUSCH039		
Muhammed Nufail K F	WMAUSCH038		

XIII. REMEDIAL COACHING

This program was designed to provide support and assistance to academically slow learners as well as an advanced 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 advanced 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	23
2	Sonima V	23
3	Shahina P H	22
4	Fathima Shadin P	22

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.	Shahina P H	Google class room, Teachmint
3.	Fathima Shadin P	Google meet (live interactive sessions), PPT, Moodle LMS
4.	Dhanisha Salim	Google meet (live interactive sessions)

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.

XIX. PAPERS/ POSTER/ INVITED TALKS BY FACULTY

Sl.No	Name of faculty	Title of the Paper/Talk	Name of the Programme
1.	Dr.Thomas Thevara	Home Villages Development	International Conference On partnership and ownership building for sustainable development.
2.	Fathima Shadin P	Promising Approach on Nanotechnology and Obesity- A Review	International Conference On Research Trends,Strategies And Technical Advancements In Biological and Biomedical Sciences for Sustainability.
3.		Review on Unfolding Potential of click chemistry in	International conference on recent trends in Speech processing, signal analysis and acoustics.

		bioconjugation.	
4.	Dr. Thomas Thevara	Invited talk on Significance of gandhian principles in attaining real freedom.	Gandhi Jayanthi Celebration, SRC Trichy.
5.		Talk on world Sparrow day.	Department of Chemistry, WMOC Muttil.
6.		Talk on International day for Biodiversity.	Department of Chemistry, WMOC Muttil.
7.		Technical Session on impact of copper oxy chloride on soil.	Agro entrepreneurs training, Viswa Yuva Kendra New Delhi and OISCA International.
8.		Session on Ecofriendly living methods.	Eco Resource Centre, OISCA.
9.		OISCA Love green club inaugural talk.	G. H. S Valavayal.
10.		Awareness programme on energy conservation.	Hill Blooms School, Wayanad.
11.		71 ST annual seminar on Indo- Japanese Strategies Relations.	OISCA International South India chapter and Planetarium Calicut
12.		Talk on lessons to be learned from Brahmapuram	Annual meet of Kerala Sasthra Sahithya Parishad, Sulthan Bathery Unit Conference.
13.		Talk on OISCA'S environmental Award Distribution Ceremony	OISCA Bathery
14.		Discussion with Prof. Babil, Professor, Tokyo University	Eco Resource Centre, OISCA

XX. ACHIEVEMENTS OF FACULTY

- Dr. Thomas Thevara, HOD of Chemistry ,received appreciation from K E College Mannanam for continuing teaching for more than four decades.
- Dr. Thomas Thevara received award from OISCA Wayanad for his Contributions in environmental

activism and environmental awareness.

XXI. CONFERENCES/ SEMINARS/ WORKSHOPS ATTENDED BY FACULTY

Sl. No	Name of Faculty	Seminar attended
1	Fathima Shadin P	IQAC Workshop on Quality assurance
		Workshop on Moodle LMS
		Webinar on significance of gandian principles in attaining real freedom
		International conference on research trends strategies and technical advancements in biological and biomedical sciences for sustainability.
		Technology skill and entrepreneurship development
		Skill development workshop on academic publishing resources and platforms
		Webinar on data analytics using KNIME
		Webinar on governance and funding best practices in research programmes
		Research methodology and workshop on SPSS
		International conference on recent trends in speech processing signal analysis and acoustics.
2	Sonima V	International conference on recent trends in speech processing signal analysis and acoustics
3	Shahina P H	International conference on recent trends in speech processing signal analysis and acoustics.
		Skill development workshop on academic publishing resources and platforms

		Millet for women Dr. Jayanthi Endowment lecture, SRC Tiruchirappalli
4	Dr. Thomas Thevara	Webinar on significance of gandian principles in attaining real freedom
		International conference on research trends strategies and technical advancements in biological and biomedical sciences for sustainability

XXII. FDP ATTENDED BY FACULTY

Sl.No	Name Of Faculty	Title of FDP	Duration/ Date
1.	Fathima Shadin P	FDP On Moodle based LMS and Course Design (Advanced Course)	3/5/2023-9/5/2023
		FDP On Research Methodology and Technical Writing Skills	24/4/2023-29/4/2023
2.	Shahina P H	FDP On Research Methodology and Technical Writing Skills	24/4/2023-29/4/2023
3.	Sonima V	FDP On Research Methodology and Technical Writing Skills	24/4/2023-29/4/2023

XXIII. PUBLICATION BY FACULTY

Sl. No	Name of Faculty	Title of the paper	Conference Title	Year
1.	Fathima Shadin P	Unfolding Potential of Click Chemistry in Bioconjugation.	International Conference on Recent Trends in Speech Processing, Signal Analysis and Acoustics.	2023

XXIV. ACHIEVEMENTS OF STUDENTS

Sl. No	Name of Students	Achievemnets
1.	Fathima Husna – D2 Muhammed Safwan- D3	Second place in intercollegiate quiz competition organized by ST. Mary's College as a part of Science fest.

		Second place in interdepartmental quiz competition organized by PG department of commerce as a part of azadi ka amrut mahotsav.
2.	Fathima Husna – D2	Miss WMOC Runnerup Second prize in students presentation on freedom struggle and scientific community. Second prize in poster making conducted by My Home Palliative Care. Third Prize in Elocution competition conducted by PG Department of Commerce as a part of azadi ka amrut mahotsav. Second Prize in Debatae competition conducted by Department of Physics
3.	Anupriya V- D3	First Prize in story writing hindi
4.	Resha Fathim- D3	First Prize in semiclassical music First Prize in hindi recitation
5.	Muth V S – D3	Second Prize in monoact
6.	Manjusha T A -D3	Third prize in Folk dance
7.	Shijina-D3	First prize in poem writing malayalam
8.	Asray V -D2	English speech second place Western solo second place English skit first place Malayalam skit first place Collage making second place
9.	Rimna, Megha – D2	Collage making Second place (Arts)
10.	Rimna – D2	Second place in collage making competition as a part of azadika amrut mahotsav
11.	Rahul – D3	Second place in collage making competition as a part of azadika amrut mahotsav Second Place in Mimicry
12.	Anagha M P – D1	Sanskrit Essay 1st Sanskrit Story writing 1st Sanskrit Versification 2nd

		Sanskrit Extempor 1st Sanskrit recitation 1st
13.	Sahereen – D1	Urdu
14.	Mufeeda – D1	Kadhaprasangam 1 st place
15.	Hamna K – D1	English Skit 1 st place English Drama 1 st place
16.	Dilna – D1	Malayalam Drama 2 nd place
17.	Ijlal – D3	3 rd place in 4*100 Metre relay race

XXV. INTERNSHIP

Five students from D3 Chemistry, as part of their final year project entitled "Ice-cream Processing and Quality Analysis," had the opportunity to work as inplant trainees at Fabbri Foods Private LTD. The duration of their training was from September 9, 2022, to October 11, 2022.

Throughout their internship, these students displayed great enthusiasm and a strong desire to learn and comprehend various aspects related to the operations of Fabbri Foods. As the company specializes in the production of ice cream, the students focused on understanding the entire process of ice cream production, as well as the analysis of its quality.

The students actively engaged in hands-on activities and closely observed the different stages involved in ice cream processing. They were exposed to the various equipment and machinery used for the production process, such as mixing and freezing machines, packaging units, and quality control instruments. Furthermore, they took a keen interest in learning about the different ingredients and additives used in ice cream production, their properties, and their effects on the final product. They actively participated in quality analysis, which involved conducting tests to assess the texture, flavor, color, and overall sensory experience of the ice cream.

Overall, their inplant training at Fabbri Foods proved to be a valuable experience for the five D3 Chemistry students, enabling them to bridge the gap between theoretical knowledge and practical application. They not only gained expertise in ice cream processing and quality analysis but also cultivated a strong passion for the field of food science and its intricate operations within a company like Fabbri Foods Private LTD. Students are:

Amil K

Ijlal M

Muhammed Anhal

Muhammed Nufail

Muhammed Sinan

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.

