

DEPARTMENT OF CHEMISTRY: ANNUAL REPORT 2019-20

The academic year 2019-20 of the department started with the commencement of classes for the IIIrd and Vth semester of the BSc programme on 6th June 2019. The department officially started the I semester of the BSc programme on 2nd July 2019.

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. The department also engaged with the local community through various outreach efforts.

I. MISSION AND VISION

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

To promote and inspire the fundamentals of Chemistry through our UG course.

II. STUDENT STRENGTH

Programme	Year	Student Strength	Total
BSc Chemistry	I Year	36	102
	II Year	24	
	III Year	42	

III. UNIVERSITY EXAMINATION RESULTS

Total number of students appeared for the examination	Number of students passed	percentage
24	18	75

IV. FACULTY DETAILS

Sl. No	Name	Designation	Qualification	Date of joining/relieving
1	Dr. Thomas Thevara	HOD	MSc, M. Phil B. Ed, PhD	01.06.2019
2	Rashada Rahiman	Assistant Professor	MSc, B. Ed	16.01.2020
3	Sonima V	Assistant Professor	MSc, JRF	
3	Shahina P H	Assistant Professor	MSc, NET	16.01.2020

V. DEPARTMENTAL ACTIVITIES

1. Environment month celebration

As a part of Environment month celebration department of chemistry organized a tree planting programme on 21st June 2019. 20 students participated.



2. Onam celebration

Department of Chemistry celebrated onam in a simple manner. Students enjoyed the celebration.



3. 150th Anniversary of Periodic table

As a part of 150th anniversary of periodic table department of chemistry conducted an invited talk on history of periodic table and its importance in human life. Programme was held on 12th December 2019 and about 50 students were participated. The Resource person was Dr. Thomas Thevara (OISCA International South India Chapter Executive, Head of the department of chemistry, WMO College Muttil.)



4. Ozone Day Celebration

Department of Chemistry conducted Ozone Day celebration on 16th September 2019. The session was handled by Dr. Thomas Thevara (HOD Chemistry, WMO Arts and Science College, Muttil)



4. Christmas celebration

Department of Chemistry conducted Christmas celebration.



4. Career guidance

Department of chemistry conducted a career guidance session on the future opportunities for chemistry graduates on 15th January 2020. Session was held by Dr. Thomas Thevara. 40 students participated in the session.



5. Association inauguration

As a part of association inauguration titles 'QUIMICIA 2K20' conducted a session on chemistry in everyday life on 30th January 2020. Resource person was Sri.K.T. Srivatsan (Member of Sastra Sahithya Parishath).90 students participated in the session.



6. World wetland day celebration 2020

The department of Chemistry in association with the department of Physics organized a talk on the topic “Wet Land Eco Systems”. Dr. AS Maheswari, Head, Department of Zoology, Seetha Lakshmi Ramaswamy college, Tiruchirappalli was the resource person. Prof. Thomas Thevara, Head of the chemistry department welcomed gathering and Dr. Biju KG, head of physics department presided over the function.



7. World water day celebration

As a part of world water day department of chemistry organized a practical session on water quality analysis in collaboration with Brahmagiri Development Society on 23rd march 2020.



V EXTENSION ACTIVITIES

1. Celebrating 150 Years of the Periodic Table: Connecting Chemistry to Real Life

The Department of Chemistry celebrated the 150th anniversary of the periodic table on December 12th, 2019, with Dr. Thomas Thevara as the resource person. The periodic table is a fundamental tool in chemistry that organizes elements based on their properties and atomic structure. Dr. Thevara highlighted the importance of the periodic table in various fields of science and its impact on our daily lives. Additionally, the periodic table is essential in materials science, where it helps to design and develop new

materials with specific properties. In conclusion, the periodic table is not just a theoretical construct but has significant real-life applications that impact our daily lives. 50 students were participated.



2. Tree Planting Challenge

On June 21st, 2019, the Department of Chemistry organized a tree planting challenge to promote environmental awareness among students. A total of 20 students participated in the challenge, where they were tasked with planting trees in designated areas within the campus. The challenge aimed to encourage students to take an active role in preserving the environment and to raise awareness about the importance of planting trees in mitigating the effects of climate change.



3. Skill Development Training on Water Analysis and Soap Making

On March 23rd, 2020, the Department of Chemistry in collaboration with the Brahmagiri Development Society organized a skill development training program on water analysis and the preparation of soap and hand wash. The training aimed to provide students with practical knowledge and skills related to water quality analysis and the production of soap and hand wash. The program was attended by a group of 30 enthusiastic students who actively participated in the training sessions. The students were introduced to the basic principles of water quality analysis and were taught how to test various water parameters using simple and affordable techniques.



Hand Sanitizer Distribution

Department of Chemistry prepared hand sanitizer and distributed to all departments. 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 where the participants produced the sanitizer, which was tested for effectiveness and packaged in small bottles for distribution.



VI. INDUSTRIAL VISIT

Students of D3 Chemistry visited Solar observatory Kodaikanal.



VII. MENTORING SYSTEM

Mentoring system is 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. Students were grouped into small groups and assigned mentors to each group. Discussed academic and personal matters. Provided guidance and support.

VIII. 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 chemistry students and offer tailored guidance. This assessment helped in understanding the specific areas where students required remedial support or additional challenges.

IX. SLOW AND ADVANCED 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 maximise their academic potential. This programme recognizes the 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.

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	38	Sonima V

XI. 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	Certificate course	Participants
1	Detergent and hand sanitizer making	22
2	Environmental Chemistry	25

XII. CONTINUOUS INTERNAL EVALUATION

Internals given according to the criteria that based on assignment, seminar, internal examination, attendance and their overall performance. Student grievances are considered and further improvements done on the basis of retest and viva.

XIII. FEEDBACK SYSTEM

The department of Chemistry implemented a comprehensive Feedback system that enables the students to provide valuable feedback and suggestions at the end of each semester. This system is designed to gather insights from all students regarding their learning experiences, course contents and teaching methodologies.

XIV. STUDENT PROJECT

NAME	REGISTER NUMBER	TOPIC	GUIDE
ENZIA HAKHANI M N	WMARSCH017	PREPARATION OF BIODEGRADABLE PLASTICS	SONIMA
KAVYA P S	WMARSCH024		
THABSHIRA P	WMARSCH042		
DILSHA V S	WMARSCH015		
SHIJILAS P H	WMARSCH026		
DHANISHA SALIM	WMARSCH014	NUTRITIONAL VALUE OF BISCUIT SAMPLE	SONIMA
NUFEELA A N	WMARSCH 008		
HARSHITH K V	WMARSCH005		
NOUSHID K	WMARSCH030		
SHIVA KUMARP B	WMARSCH038		
SNEHA SASIKUMAR	WMARSCH040	IDENTIFICATION OF THE PRESENCE OF FATS,OILS, ARBOHYDRATES,PROTEINS AND MINERALS IN VEGETABLE JUICE	SHAHINA
ROSNA SHERIN	WMARSCH034		
SHAMAL SALEEM	WMARSCH037		
ASHIQ T A	WMARSCH003		
RAHANA SHERIN	WMARSCH032		
NISMIYA JASMINE	WMARSCH029	ALKALI IN ANTACIDS	THOMAS THEVARA
SOORYA S	WMARSCH041		
ELIZABATH JOSEPH	WMARSCH016		
AFNA FERIN	WMARSCH010		
HISANA THESNI	WMARSCH021		
JUMANA HASEEN P P	WMARSCH023		
FASNA N	WMARSCH018		
SAKKIYA	WMARSCH		
FATHIMA SAFVANA	WMARSCH019	A STUDY OF PH OF VARIOUS HAND WASH AND THEIR PREPARATION	THOMAS THEVARA
RISWANA THASNEEM	WMARSCH033		
IRFANA SHEEREEN	WMARSCH022		
SNEHA K AJITH	WMARSCH039		
SALIHATH	WMARSCH036	A STUDY OF ON PH OF VARIOUS DETERGENTS AND THEIR PREPARATIONS	SHAHINA
SHADIYA NOURI	WMARSCH001		
AYSHA AFEEDA	WMARSCH012		
RAHANA HUSSAIN	WMARSCH031		
BLESSY MARIA	WMARSCH013	GREEN SYNTHESIS OF NANOPARTICLES FROM GREEN LEAF EXTRACT	SONIMA
ADHARSHA	WMARSCH002		
RAJESWARI	WMARSCH009		
MUHSINA	WMARSCH007		
ATHIRA	WMARSCH004		
HASHIFA HYDER	WMARSCH020	ANALYSIS OF ANIONS AND CATIONS IN COCONUT WATER	SHAHINA
ALEENA SEBASTIAN	WMARSCH011		
LUBNA	WMARSCH025		
HASHINA	WMARSCH006		
SAHALA	WMARSCH035		

