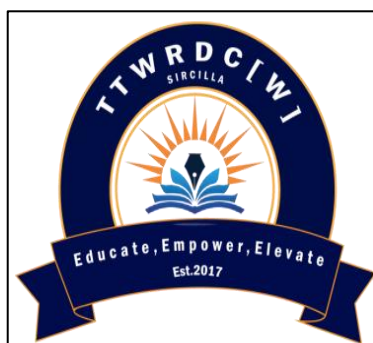


**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR
WOMEN, THANGALLAPALLY RAJANNA SIRCILLA**



Activities Report

Department of Chemistry



Faculty members

E.ANITHA (HOD)

P.NIRMALA

DEPARTMENT OF CHEMISTRY ACTIVITIES

Academic Year 2022-2023

ACTIVITY: WORLD OZONE LAYER

DATE: 16/09/2022

STUDENT PARTICIPATED:

PREETHI

DEEPTHI

SANDHYA

SWATHI

OBJECTIVE:

- **Raise Awareness:** Increase awareness among participants about the importance of the ozone layer in protecting life on Earth from harmful ultraviolet (UV) radiation.

Provide information about the causes and consequences of ozone depletion, including the role of ODS such as chlorofluorocarbons (CFCs), halons, and methyl bromide.

ABOUT THE PROGRAM:

- Department of Chemistry has conducted an Ozone Day celebration on September 16, 2022. Students participated actively; students gave seminars and speeches on ozone depletion. This day marked various events and activities including skit play and seminars through skits. Students delivered awareness campaigns about the depletion of the ozone layer and steps that should be taken to preserve the ozone layer.



- **P.Deepthi** of MBZC and team displayed a performance on the dissociation of ozone molecules by the chlorine monoxide
- **K.Sravani** of MBZC presented about the protocols and international agreements and ratification.

FEEDBACK:

- **P.Venella** MBZC 3year has expressed the success of the program
- **P.Chandana** found the play more informative.

ACTIVITY: BEST STUDENT SEMINAR COMPETITION

DATE:-09/11/2022

TOPIC: CHEMICAL BONDING

STUDENTS PARTICIPATED:

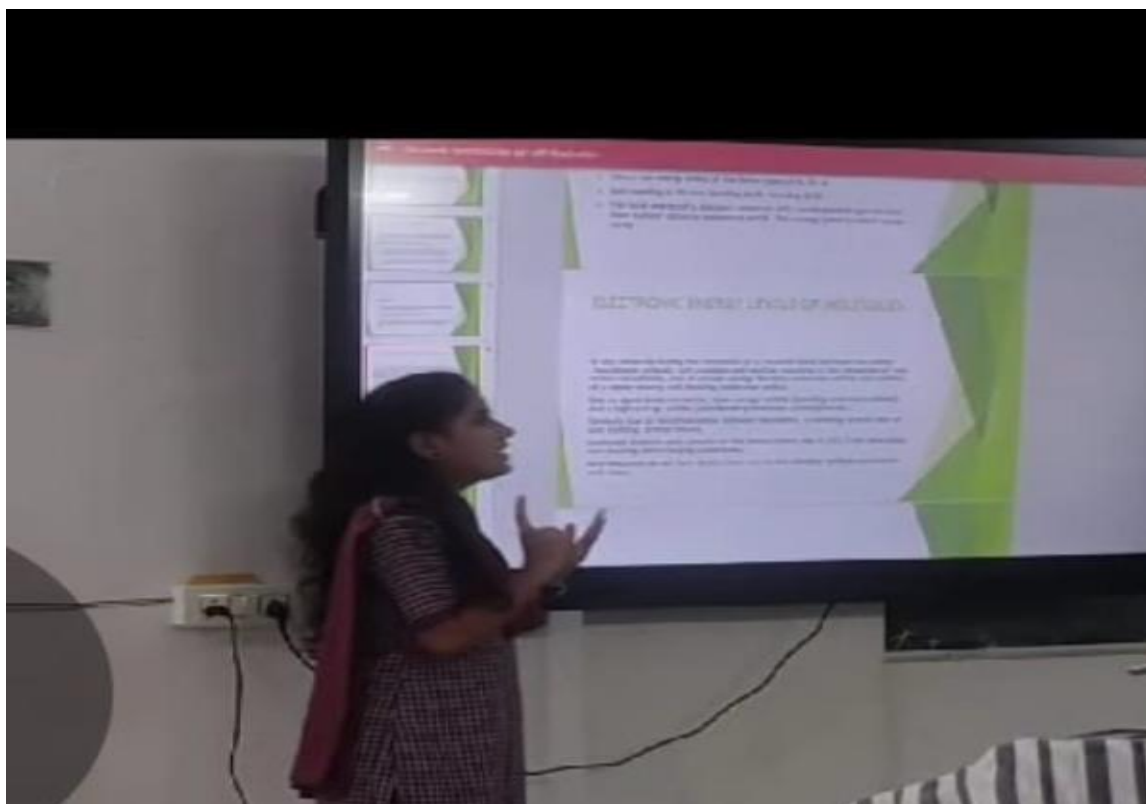
A.KALYANI MPC 3rdYear

OBJECTIVE:

- Visual and interactive content presented on the Smart Board has enhanced students' conceptual understanding and retention of key concepts
- Smart Board technology has significantly increased student engagement and participation in classroom activities, leading to a more dynamic and interactive learning environment.

ABOUT THE PROGRAM:

- As a part of student seminar competition conducted by TTWREIS,
- Kalyani (mpc-3rd year) participated in the best student seminar competition in the college level
- She had given the seminar on the topic of chemical bonding. Content involved **Classify Types of Bonds:** Explore the different types of chemical bonds, including covalent, ionic, metallic, and hydrogen bonds, and describe their distinguishing characteristics.



Feedback:

- The feedback generally highlighted the need for clearer explanations, especially regarding different types of chemical bonds such as ionic, covalent, and metallic bonds.
- Neeraj MZCIII expressed the incorporation of more visual aids, such as diagrams or animations, to illustrate the bonding processes effectively.
- K.DEEPTHI Visual representations were deemed helpful in enhancing understanding and retention of the m

ACTIVITY: WORLDS AIDS DAY

Date: 1-12-22

STUDENTS PARTICIPATED:

ANUSHA

SRAVANI

SANGEETHA

RADHIKA

RAMYA

AKHILA

OBJECTIVES:

- **Raise Awareness:** Increase public awareness about HIV/AIDS, its transmission, prevention, and treatment options
- **Empower Communities:** Empower communities affected by HIV/AIDS through education, capacity- building initiatives, and support networks to address their specific needs and challenges.

ABOUT THE PROGRAM:

- Department of Chemistry conducted an aids day awareness program number of events were organized to make the students aware about that type of virus and their prevention and control
- **Awareness Campaign:** The rally featured informative booths and interactive displays to educate
- HIV/AIDS prevention, transmission, and treatment options. Volunteers distributed informational
- pamphlets attendees and provided opportunities for attendees to ask questions and engage in di
- A rally was organized by life science students and an awareness progra



ACTIVITY: FIELD TRIP
PLACE OF VISIT POWER LOOMS

DATE: 12/02/2023

LOCATION: Siricilla

STUDENTS PARTICIPATE: MbZC-3rdYear

OBJECTIVE:

- The visit helps us to know about that machine power
- And the power consumption
- The the pattern of water consumption
- effects of looms on air quality
- And the decibels of the machine that create the noise pollution.

A BOUT THE VISIT:

Chemistry department organized a field visit to power loom and handloom industries in Siricilla to provide students with practical insights into the application of physics principles in textile manufacturing processes.



FEEDBACK OF THE STUDENTS:

It was great visit and we got the hands-on learning opportunity, gaining practical insights into the operation of power loom and handloom industries.- B.Akhila- MbZC - 3rd year

We got the knowledge about the processes involved in textile production, including weaving techniques, machinery usage, and production scale.- Sushmitha MbZC -3rd year

ACTIVITY: SCIENCE DAY

Date: 28/02/23

STUDENTS PARTICIPATED:

Jyothi

Deepthi

Kalyani

OBJECTIVE:

- Showcase the contributions and achievements of scientists, especially focusing on national and local scientific advancements.
- Promote innovative thinking and problem-solving skills through hands-on activities, experiments, and demonstrations.

ABOUT THE PROGRAM:

- The Department of chemistry along with all the science departments organized a science fair on 28- 02-2023
- In the morning session, quiz was conducted subjects Students participated in the quiz competition and excelled
- In the afternoon session poster presentation was conducted students from various groups presented on participating in this program
- From mbzc-2ndyear Deepthi and team presented poster on distillation of water.





FEEDBACK:

Motivate students to pursue their career in the field of science .To align with the recent developments in technology

ACTIVITY: POSTER PRESENTATION

DATE:-18/03/2023

OBJECTIVE:

- Fulfill academic requirements, such as course assignments.
- Knowledge sharing through posters enhances the learning skills
- Effective delivery of theory through pictures.

ABOUT THE PROGRAM:

- On 18-03-2023 a poster presentation was conducted within the campus. Poster presentation delivers the concept in pictorial form and caters to the innovation in students' approach to a theory
- Students of final year life sciences participated in the poster presentation students elucidated theoretical conceptual topics on air quality and other environment-related topics.
- The Effect of Aerosol Environment poster on behalf of Chemistry A poster was presented by Deepthi and team from the mbzc-2nd year and the topic is the modern periodic table and its properties.
- Neeraja and the team from the mpc-3rd year presented a poster presentation





Feedback:

- kurra sravani found this activity as very informative and conceptual information

EDUCATE EMPLOYABILITY PROGRAM

ACTIVITY: SCOPE IN CHEMISTRY

DATE: 04/04/2023

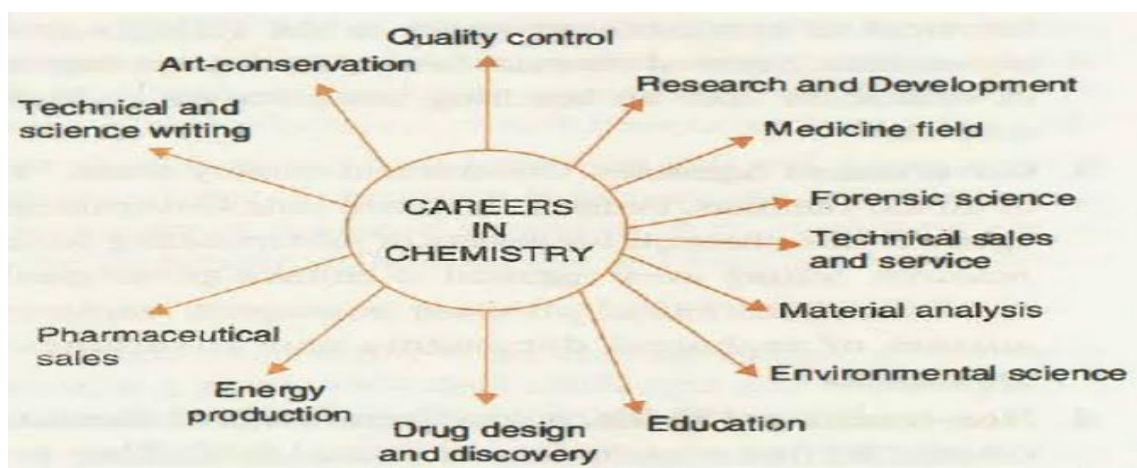
STUDENTS INVOLVED: All final years

OBJECTIVE:

- Provide a brief overview of what chemistry and its career opportunities explain the importance of chemistry. Introduce the main branches of chemistry (e.g., organic, inorganic, physical, analytical, biochemistry). Highlight the unique focus and applications of each branch.

ABOUT THE PROGRAM:

- Department of chemistry has organized EEE programmed on scope in chemistry to all the second year and final year students with chemistry background. THE SESSION FOCUSED ON the different employment opportunities such as Drug Development, Quality Control, Regulatory Affairs. **Analytical Chemist:** Environmental Testing, Forensic Science, Food and Beverage Industry. Environmental Consultancy, Pollution Control, Water Treatment



ACTIVITY: WORLD WATER DAY CELEBRATIONS

DATE: 23/3/23

STUDENTS INVOLVED:

MANEESHA

TRIVENI

DEEPTHI

VINIKA

TRISHA

OBJECTIVE:

- The day highlights the importance of ensuring that all people, regardless of their location or socioeconomic status, have access to safe and clean drinking water and adequate sanitation facilities.
- The day encourages individuals and communities to take action, whether through local conservation projects, educational campaigns, or advocating for better water policies and practices.

ABOUT THE PROGRAM:

- World Water Day is an international observance day designated by the United Nations (UN) to highlight the importance of freshwater and advocate for the sustainable management of freshwater resources. It is celebrated on March 22 each year
- Department of chemistry has organized speeches skits on water day to educate students and about water issues, such as scarcity, pollution, and the importance of clean
- Hosting poster-making competitions focused on water-related themes to engage students creatively.
- Setting up exhibitions showcasing models, charts, and other educational materials related to water conservation, water cycle, and innovative water-saving techniques.
- Vinika delivered power point presentation on statistics of water available sources in different forms



FEEDBACK:

- Focused on Specific areas of water quality of include Good content quality.
- K. SRAVANI expressed her satisfaction in presentation of ppt.
- P. MEENA found particular topics more informative.
- TRISHA found the statical approach of the session very productive.

ACTIVITY: EXTENSION LECTURE

DATE: 24/4/23

TOPIC: Career guidance

LOCATION: College campus

OBJECTIVE:

- Exploration of the major branches of chemistry, such as organic, inorganic, physical, analytical, and biochemical chemistry.
- Examination of the pivotal role of chemistry in various industries, including pharmaceuticals, materials science, agriculture, and energy.
- Insight into skills, qualifications, and professional development opportunities for pursuing a successful career in chemistry.
- Discussion on how interdisciplinary approaches are expanding the boundaries of chemical science and driving innovation.

ABOUT THE PROGRAM:

- Department of chemistry has organized career guidance program to provide an insight into skills, qualifications, and professional development opportunities for pursuing a successful career in chemistry. The speaker of the day is K. Madusudan Reedy sir retired prof at SRR degree and Pg College an eminent speaker and motivational speaker.
- Encouragement for attendees to further explore the multifaceted realm of chemistry and its boundless opportunities.



ACTIVITY:-STUDENT SEMINAR

DATE: 25/03/2023

OBJECTIVE:

- Students gain the knowledge about the Structural theory in organic chemistry.
- All students participate actively
- Students enhance their communication skills.

ABOUT THE PROGRAM:

- Seminar provides an opportunity to learn and gain new insights on specific topics. it serves as a platform to connect the students and stay updated with their current trends he educational credits And certifications.
- A seminar was organized by mbzc-2ndstudents on the stability of carbocation inductive effect and hyper conjugation. The class was mainly on electronic delocalization.
- Ashwitha of life science second year presented on mesmeric effect and hyper conjugation.
- Anusha of life science elucidated SN1 and SN2 reaction mechanism.



FEEDBACK:

Students expressed satisfaction on their particular topics. Students impressed their presentation.

P.Anusha MZC second year has stated the seminar simplified the concept of delocalization.

ACTIVITY: FIELD TRIP

DATE: 30/04/2023

STUDENTS PARTICIPATED:

Mamatha

Sarvani

Sravanti

Deepthi

Akhila

OBJECTIVE:

- The department of chemistry has organized a field trip to the nearby dying industry the objective of this visit was to make the students aware about different kinds of solvents dyes solutions that are used to dye a fabric The main purpose of this visit is to make the students know about eco-friendly chemicals and improving process efficiency the distillation the purification.

ABOUT THE PROGRAM:

- The visit organized by the faculty of department of chemistry TTWRDC Silsila Visit highlighted the importance of personal protective equipment and detailed safety measures and safety protocols that has to be taken while dying a fabric and also provides an insight to the companies waste management practices emission control measures and to minimize environmental impact.



FEEDBACK:

- The visit concluded with a feedback session where the participants share their observations and the learning experiences.
- K .Deepthi MZC 3rd year expressed her that that the tour was informative and could bring awareness about the advanced effluent treatment and their commitment to work and the safety protocols that were to be followed.

ACTIVITY: FIELD TRIP

PLACE OF VISIT DAIRY

Date: 30-04-2023

LOCATION: Karimnagar

STUDENT PARTICIPATED:

Mamatha

Shravani

Sravanthi

Deepthi

Akhila

OBJECTIVE:

- Provide an awareness program on Pasteurization Homogenization Separation Fermentation Chemical Analysis and Quality Control PH Measurement Chemical Additives and Preservatives.
- Students get awareness about the Ph of milk and different preservatives added in the milk.

ABOUT THE PROGRAM:

- Department of chemistry in collaboration with the microbiology department carried out a visit to KARIMNBAGAR DAIRY. The purpose of this visit is to provide an overview and analysis of a recent visit to a dairy facility from a chemistry perspective. The visit aimed to explore the various chemical processes involved in dairy production, including milk processing, quality control measures, and the role of chemistry in ensuring the safety and nutritional value of dairy products. To know the critical steps in milk processing is pasteurization, where the milk is heated to a specific temperature to eliminate harmful bacteria while preserving its nutritional properties. Separation techniques are employed to isolate cream from milk, which is used to produce various dairy products such as butter and cream.



FEEDBACK:

- The dairy visit provided valuable insights into the intricate chemistry involved in milk processing and dairy product manufacturing. By understanding the chemical principles underlying each stage of production and quality control measures, it becomes evident how chemistry plays a pivotal role in ensuring the safety, quality.
- Good awareness on PH OF MILK and separation techniques by B.VEENELA.
- Informative on the safety and nutritional value of dairy products by A SWATHI

ACTIVITY: E LEARNING THROUGH SEMINAR

Date: 15/6/23

TOPIC: HYBRIDISATION

STUDENT PARTICPATED: PRIYANKA Life Science II YEAR

OBJECTIVE:

- Seminar on ICT and PPT enabled methodology in modern LEARNING presentation tools, Techniques for creating visually appealing slides, including the use of images, charts, and diagrams.
- Incorporation of multimedia elements like audio and video clips to enrich the presentation experience.

ABOUT THE PROGRAM:

- His report presents an overview of a seminar focused on utilizing Information and Communication Technology (ICT) in presentations, particularly emphasizing the use of PowerPoint (PPT) as a tool for effective communication. The seminar aimed to explore various techniques, best practices, and innovative approaches to enhance presentation skills using ICT platforms. Priyanka of MZC II YEAR delivered a lectured-on concept of hybridization Explanation of the concept using the valence bond theory and molecular orbital theory.
- Types of hybridization: sp , sp^2 , sp^3 , sp^3d , sp^3d^2 , and their respective geometries.
- Application of hybridization in understanding the structure and properties of organic compounds.



FEEDBACK:

- participants gained practical skills to enhance their presentation abilities and effectively communicate their ideas.
- The seminar provided valuable insights into leveraging ICT tools, particularly PowerPoint, to create compelling and impactful presentations.
- Overall, the seminar served as a platform for fostering digital literacy and communication skills essential for success in the digital age.
- The presentation was good K. SRAVANI.
- The presentation was informative K. DEEPTHI.

DEPARTMENT OF CHEMISTRY ACTIVITIES

Academic Year 2021-2022

ACTIVITY: WORLD AIDS DAY

DATE: 1/12/2021

INTRODUCTION:

Degree students initiated a significant step towards raising awareness about HIV/AIDS in rural communities by organizing a rally in TTWRDC[W] Rajanna Siricilla this event aimed to educate villagers about the prevention, transmission, and treatment of HIV/AIDS, emphasizing the importance of awareness and eradicating stigma associated with the disease.

OBJECTIVE:

- **Awareness:** Increase public awareness about HIV/AIDS, its transmission, prevention, and treatment options
- **Empower Communities:** Empower communities affected by HIV/AIDS through education, capacity- building initiatives, and support networks to address their specific needs and challenge

ABOUT THE PROGRAM:

- Department of chemistry in collaboration with the botany zoology commenced The rally with explaining the purpose and significance of the event.
- Students, adorned in red ribbons symbolizing solidarity with people living with HIV/AIDS, led the procession through the village streets, attracting the attention of local residents.
- Banners and placards bearing educational messages about HIV/AIDS prevention, testing, and treatment were prominently displayed throughout the rally.
Community Engagement:
- The rally garnered significant participation and support from the local community. Residents of all ages actively joined the procession, demonstrating their commitment to combating the spread of HIV/AIDS and fostering a more inclusive and understanding community.



FEEDBACK:

The competition encouraged creativity and participation from students, with many expressing their thoughts on HIV/AIDS through art and slogans. The display of posters around the campus was praised for its visual impact and educational value.

ACTIVITY: STUDENT SEMINAR

DATE: - 08/12/2021

TOPIC: Natural products

STUDENTS PARTICIPATED:

Gauthami BZC II year

Lokitha BZC II year

OBJECTIVE:

Seminars encourage active participation that enhances the basic understanding

Of the topics

- To introduce students to the concept of natural products and their significance in pharmaceuticals, agriculture, and other industries.
- To explore the chemical composition, properties, and structures of selected natural products.
- To discuss the medicinal properties and therapeutic potential of natural products.
- To foster research skills, critical thinking, and presentation abilities among students.

ABOUT THE PROGRAM:

- The Department of Chemistry has organized a seminar. The seminar was presented by loukitha and gouthami On December 8, 2021. she covered the topic the synthesis of α -terpineol .she explained the structural elucidation of α -terpineol and the classification of terpenoids.

The seminar commenced with an overview of natural products, covering their sources, classification, and significance session focused on the chemical composition and properties of selected natural products, such as alkaloids, flavonoids, terpenes, and polyphenols. The presenter discussed their molecular structures, physical properties, and biological activities.



FEEDBACK:

- Enjoyed the interactive discussions; they made the seminar more engaging."
- The seminar was well-organized and effectively addressed key concepts in natural product chemistry."
- Participants appreciated the focus on the practical applications of natural products, highlighting their relevance to their medicinal properties
- Mayuri MPC III year found the session very informative and more collaborative.
- Radhika expressed the session as satisfactory.

ACTIVITY: QUIZ

DATE: 19/02/2022

TOPIC: Organic chemistry

STUDENT'S PARTICIPANTS:

MZC III Year

OBJECTIVE:

- Utilizing ICT platforms for quizzes can make the learning process more interactive and engaging for students, motivating them to participate actively in the assessment.
- By leveraging ICT tools, quizzes can be made accessible to students regardless of their location, enabling remote learning and asynchronous participation.
- With ICT-based quizzes, students can progress through the assessment at their own pace, enabling personalized learning experiences and catering to individual learning needs.

ABOUT THE PROGRAM:

- Department of Chemistry conducted a quiz to all 1st year, 2nd year, 3rd year MBZC, BZC, and MPC, students on February 19, 2022. quiz reinforces learning and improves knowledge retention by testing memory skills. quizzes make learning more fun and interactive. The quiz was conducted as an assessment to test their understanding of chemistry by testing the understanding it covers all the basics of chemistry.
- The Basic Chemistry ICT Quiz was organized with the objective of assessing participants' understanding of fundamental concepts in chemistry using an Information and Communication Technology (ICT) platform. The quiz aimed to provide an interactive and engaging way for participants to test their knowledge of basic chemistry principles and terminology.



FEEDBACK:

- Participants appreciated the relevance of the quiz content, the user-friendly platform, and the immediate feedback provided.
- Participants found the quiz content relevant and engaging, with questions covering a range of basic chemistry concepts.
- K.Deepthi of MZC III years expressed as helping learners assess their strengths and weaknesses.
- K.Akhila of MZC 3year found the quiz more helpful in building confidence and strives to achieve success.

ACTIVITY: SCIENCE DAY

DATE: 28-2-22

TOPIC: SANITIZER PREPARATION

STUDENTS PARTICIPATED:

Kalyani MPC III, Monika ,Vijaya MPC III ,Mamatha MPC III.

OBJECTIVE OF THE PROGRAM:

- The objective of hand sanitizer preparation at TTWRDC Siricilla was to provide students with practical skills in producing an essential hygiene product amid the COVID-19 pandemic. Hand sanitizer plays a crucial role in preventing the spread of infectious diseases, and by learning to prepare it, students could contribute to promoting public health awareness in their communities.
- Preparation of hand sanitizer as per WHO guidelines using commonly available reagents in the laboratory. This move helped the people during the pandemic .The purpose is to inculcate scientific knowledge to the Chemistry as well as Life Science students.

ABOUT THE PROGRAM:

- The Department of Chemistry celebrated National Science Day on 28/2/2022 in remembrance of sir
- C.V Raman Students participated actively and displayed their exhibits. Students exhibited drip irrigation model and synthesis of hand sanitizer.
- **Hands-on Learning Experience:** To provide students with practical experience in preparing hand sanitizer, including understanding the ingredients, formulations, and production process. To demonstrate the effective utilization of readily available resources in producing essential hygiene products,
- The Drip Irrigation Project at aimed to promote sustainable and efficient water management practices in agriculture while enhancing agricultural productivity and income for farmers in the surrounding areas. Drip irrigation is an innovative technique that delivers water directly to the roots of plants, minimizing water wastage





FEEDBACK:

- ANUSHA MZC III expressed exhibits made more learning more effective Munni BZC the science fair more informative.

ACTIVITY:-STUDENT SEMINAR

DATE: 27/04/2022

TOPIC: Carbohydrates

STUDENTS PARTICIPATED:

CHANDANA

AKHILA

Preethi

OBJECTIVE:

- The purpose is to develop a comprehensive understanding of what carbohydrates are, their chemical composition, and their role as a macronutrient in the human diet.
- Differentiate between various types of carbohydrates, such as simple sugars, complex carbohydrates.
- The seminar additional input for learning and overcoming anxiety Seminars provides a platform to share their knowledge and enhance skills.
- P.Chandana of mbzc2nd year gave a seminar on glucose fisher projection structure.
- G. Sumalatha [mbzc] she covered the topic Formation of iron complexes with strong-field ligand and weak-field ligands.

ABOUT THE PROGRAM:

- Department of Chemistry conducted student seminar on November 27, 2021, Student seminar purpose I P Chandana of mbzc2nd year gave a seminar on glucose fisher projection structure G. Sumalatha [mbzc] she covered the topic .Formation of iron complexes with strong-field ligands and weak-field ligands.
- P.Chandana of mbzc 2nd year gave a seminar on glucose fisher projection structure.
- G.Sumalatha [mbzc] she covered the topic Formation of iron complexes with strong-field ligands and weak field ligands.



FEEDBACK:

- Mayuri MPC III found the session very informative.
- Anusha MZC II expressed seminars improved their presentation skills

ACTIVITY: QUIZ

DATE: - 06/12/2021

TOPIC: Basic general chemistry

STUDENT PARTICIPATED: MZC, MPC, BZC-3rd&2year, MZC 1styear.

OBJECTIVE OF THE PROGRAM:

- Quiz enhances the student's learning capability through Questionnaires.
- Allows the students to think out of the box and have a 360degree view of the topic.
- To enhance critical thinking and problem-solving skills by Challenging students with thought-provoking questions that require analytical reasoning.
- To foster teamwork and collaboration among students, as the quiz was conducted in teams, requiring participants to work together and pool their knowledge.
- To in still a sense of healthy competition, motivating students to strive for excellence and improve their academic performance.

ABOUT THE PROGRAM:

- Formulas units of dimension etc. The Department of Chemistry has organized an E-quiz on the topic basic of general chemistry. It's an initiative of learning through a questionnaire and the Students involvement with enthusiasm was found satisfactory.
- Includes basic components and
- Quiz consists of three rounds preliminary, semi-final, final.
- The preliminary round is of multiple choice questions.

The Semi-final round is of oral questions.



FEEDBACK:

M. Divya Bindhu BZC 2nd year found this quiz very informative.

MD. Nowshin Expressed the quiz more useful.

G. Monika Found the quiz useful as its covers the basic concepts in chemistry.

ACTIVITY: STUDENTS SEMINAR

DATE: 21/10/2020

TOPIC: Amino acids

STUDENTS PARTICIPATED:

Kalyani MZC second year

Jyothi MZC second year

OBJECTIVE:

- Seminars serve to share knowledge on a specific topic
To enhance knowledge skills and improve presentation skills.
- Providing participants with a thorough understanding of amino acids, their roles in biochemistry, and current research trends.
- The interactive format of the seminar enriched the learning experience, fostering curiosity and engagement among.
- Participants found the seminar highly informative, appreciating the depth and breadth of the topics covered.
- Participants appreciated the student's presentation skills there core concepts.

A BOUT THE PROGRAM:

A seminar was given by Kalyani MBZC 3year about the essential and nonessential amino acids and their properties.

These interactive sessions allowed for in-depth discussions, clarifications of doubts, and a better understanding of complex topics. The speakers' approachable manner encouraged students to participate and ask insightful questions.

- To provide a comprehensive overview of amino acids, their structures, and functions.
- To discuss the role of amino acids in protein synthesis and metabolic pathways.
- To explore the latest research and developments related to a

- To explore the latest research and developments related to amino acids.
- To facilitate interactive sessions and discussions between students and experts.



FEEDBACK:

- Enjoyed the interactive discussions; they made the seminar more engaging. The seminar was well-organized and effectively address key concepts in amino acids.
- Participants appreciated the focus on the practical applications of amino acids, highlighting their relevance to their use in fields.
- K. Sravani found this session informative.
- V.Bindhu found this presentation satisfactory.

ACTIVITY: NATIONAL WEBINAR

DATE: 06/01/2021

TOPIC: CHROMATOGRAPHY

About the program:

The Department of Chemistry organized a national webinar on Jan 6th 2021 and the speaker of the day was **Dr .M. Sarasija** Assistant professor in chemistry ,Satavahana University, and the topic was ‘**CHROMATOGRAPHY AN OVERVIEW**’

The webinar aimed to provide students and faculty members with an in-depth understanding of chromatography, its principles, techniques, and applications in various fields. Provided a comprehensive introduction to chromatography, explaining its basic principles and historical development. He covered key concepts such as the stationary phase, mobile phase, and the separation process, providing a solid foundation for understanding various chromatographic techniques. Discussed different types of chromatography, including paper chromatography, thin-layer chromatography (TLC), gas chromatography (GC), and high-performance liquid chromatography (HPLC). He explained the mechanisms of each technique, their applications, and advantages in analytical chemistry.

OBJECTIVES

This webinar made a better learning experience for the students and improved the student interaction with the professor. Student actively participated in the webinar and E-certificate was issued as a token of their

Presence purpose to provide students with information and knowledge about the separation techniques serves as a common platform in sharing real-time knowledge
Allows the students to participate actively

- To explore the latest advancements and research in chromatography.
- To facilitate interactive sessions to discuss various types of chromatography techniques and their applications.
- and discussions between students and experts Keynote Speakers

TTWRDC(W) Rajanna Siricilla
WEBINAR
Chromatography- an Overview

Guest Speaker
Dr. M. SARASIJA M.Sc Ph.D
Assistant Professor
Additional Controller of Examination
Chairperson , Board of Studies

WEBINAR Convenor
Mrs. K. Rajani
Principal
DL in Microbiology

Webinar Organizers
Dr. E. Anitha
Ms. P. Nirmala
Dept of Chemistry

Login:
Meeting ID: 76909141840
Passsword : FqT1Zq

06-01-2021
02:30 pm

FEEDBACK:

- The webinar left a good impression on the attendees with excellent structured with good content quality
- The expert speakers provided valuable insights, and the interactive format facilitated meaningful discussions, enhancing the overall learning experience.
- Expert speaker who shared their knowledge and experience, making the session highly informative and engaging.
- **K.Mamatha** of MZC II year found this session more insightful.
- **S.Pavitra** of MZC II year expressed the session more informative.

DEPARTMENT OF CHEMISTRY ACTIVITIES

Academic Year 2020-2021

ACTIVITY:-NATIONAL SCIENCE DAY

DATE: 28/2/2021

STUDENT PARTICIPATED:

Munni BZC II

Kalyani MZC II

Kalyani MPC II

ABOUT THE PROGRAM:

Department of Chemistry celebrated National Science Day on 28/2/2021 in remembrance of Sir C.V Raman. Students participated actively and displayed their exhibits aimed to educate students and faculty members about the importance of water purification, various techniques used, and the latest advancements in the field. Shared practical insights into the applications of charcoal water purification in real-world scenarios. He presented case studies highlighting successful implementation in rural communities and underserved areas, emphasizing the cost-effectiveness and sustainability of this approach.

Department of Chemistry conducted a science quiz for the students about scientists and their inventions and a prize was distributed to the winner (L. Sowjanya-BZC 3rd Year)



FEEDBACK:

- The National Science Day seminar on charcoal water purification at TTWRDC, Siricilla , successfully achieved its objectives of raising awareness, providing education, and fostering interactive discussions on this innovative water treatment method.
- Manisha mbzcs2ndyear expressed the science fair serves as a platform to celebrate the spirit of science.
- Traveni MBZC 2ndyear found the water treatment technique satisfactory.

ACTIVITY: BEST STUDENT SEMINAR COMPETITION

DATE: - 24/02/2021

TOPIC: Chemical bonding

STUDENTS PARTICIPATED:

A.Kalyani MZC- IIIYear

OBJECTIVE:

- To enhance students' knowledge and understanding of chemical bonding theories.
- To provide a platform for students to present their research and findings related to chemical bonding.
- To encourage critical thinking and analysis of chemical bonding phenomena.

ABOUT THE PROGRAM:

As in the part of best student seminar competition conducted by TTWREIS, A .Kalyani (mbzc-3rd year) participated in best student seminar competition in the college level she had given the seminar on the topic chemical bonding. Seminar began with an introductory session on chemical bonding theories, covering topics such as:

- Ionic bonding
- Covalent bonding
- Metallic bonding
- Hydrogen bonding

The presenter explained the fundamental principles underlying each type of bond and their significance in chemical reactions and molecular structure session focused on the properties and characteristics of different types of chemical bonds. The presenter discussed:

- Bond length and bond energy
- Polar and nonpolar bonds
- Intermolecular forces

Students actively participated in the discussions, demonstrating their understanding of the topics and exchanging ideas with their peers.



FEEDBACK:

- Examples and illustrations were provided to elucidate the concepts and principles discussed.
- The presenter highlighted the relevance of chemical bonding concepts in understanding
- Students actively participated in the discussions, demonstrating their understanding of the topics and exchanging ideas with their peers. Students actively participated in the discussions, demonstrating their understanding of the topics and exchanging ideas with their peers.
- Neeraja MZC III YEAR found the session very informative
- V. Bindu MBZC 3rd year formal this seminar satisfactory.

DEPARTMENT OF CHEMISTRY ACTIVITIES
ACADEMIC YEAR 2019-2020
ACTIVITY: - NATIONAL SCIENCE DAY

DATE: 28/02/2019

TOPIC: SCIENCE EXHIBITION

STUDENTS PARTICIPATED:

B.Lavanya
B. Kalyani
B.Bindu
B.Gouthami

OBJECTIVE OF THE PROGRAM:

- To spread awareness about the importance of science in daily life.
- Science day gives an opportunity to students of scientific thought to share their capabilities.
- To encourage students to engage in scientific research and innovation.
- To provide a platform for students to showcase their scientific projects and ideas.

ABOUT THE PROGRAM

- To honor the discovery of the RAMAN EFFECT National Science Day is celebrated on 28thFeb every year for which Indian physicist sir C.V. Raman was awarded a Nobel Prize.
- The Department of Chemistry has successfully celebrated Science Day students presented the experiment on working model of distillation.
- Students also displayed exhibits which included working model of distillation.
- Students from different departments displayed their innovative projects and models.



FEEDBACK:

A.Swathi MZC 2ndyear: Found this programme informative and served as a platform for better learning.