

Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

Departmental activities for the academic year 2022-2023

S.No.	Date	Name of the Activity
1.	20.10.2022	National seminar on Challenging Environmental Conditions- Barrier for Human Development
2.	24.11.2022	Isolation and Estimation of Carotenoids
3.	02.12.2022	National Pollution Control Day
4.	12.12.2022	Field visit to Hitech Pharma
5.	28.12.2022	Safer and Greener Chemistry Practices
6.	28.01.2023	Extraction and Estimation of Chlorophyll from different Leaves
7.	28.02.2023	Awareness programme on Water Purification
8.	14.03.2023	Field Visit to Saral Agro Chemicals
9.	06.06.2023	Student Seminars
10.	27.06.2023	Student Quiz
11.	28.06.2023	Group Discussion
12.	16.09.2023	Awareness Rally on usage of Clay Vinayaka
13.	16.09.2023	World Ozone Day

Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

ONE - DAY NATIONAL SEMINAR ON

“CHALLENGING ENVIRONMENTAL CONDITIONS -BARRIER FOR HUMAN DEVELOPMENT”

Date: 20.10.2022

AIM OF THE SEMINAR:

To inculcate environmental awareness and to explain the significance natural resources to the students and society .

OBJECTIVES :

1. To reveal the adverse effect of modernization on air, water and soil.
2. To explain about eco-friendly alternatives.
3. To propagate the organic alternatives in the place of agrochemicals.

REPORT :

The one day National seminar was organized by the Department of chemistry, YAGC(W) Chirala on 20th october, 2022

In its endeavor to empower students and the faculty about the recent advances in environmental accepts.

The First session was started by our Principal and the patron of the seminar Her excellence Dr. Ch. Ramanamma. Our principal has warmly welcomed the guests and the participants to get benefited from the lectures of the resource persons of the seminar.

The First session: The First session of seminar took place on FN of 20th October, 2022.

Prof. G. Venkata swami, Ex scientist, IICT ,hyd. delivered his lectures and he presented a paper regarding climate changes. He explained about the threats on earth such as ozone layer depletion and green house effect and the precautions has to be taken for protection of ozone layer and to retard green house effect

Dr. K .Srinivasulu lecturer in economics government degree college kanigiri presented an article entitled with “Comprehensive Study Of The Complex Of Environmental Costs”. which is useful to know the cost effects for retention of the environment.

Dr.S.Raja sekhar reddy ,lecturer in chemistry presented paper entitled with “electrochemical behavior of pesticides having electro active groups on the surface of electrodes”. Which is helpful to identify agrochemicals with least adverse effect on environment.

The second session of seminar took place on AN of 20th October ,2022.

Associate.Prof. Dr. R.Ramesh Raju. ANU Guntur . led the session and he presented a paper regarding threatens to environment. And alternatives for sustainable environment.

Organizing secretary and incharge of the chemistry department Ch.BalaBharathi presented article Estimation of weedicide residues in water samples.

Students of Chirala Engineering College, GDC,Kanigiri and YAGCW college students presented their articles.

All the participants benefited from the lectures delivered in this seminar. They appreciated the topics selected and gave positive feedback about the seminar.

46 articles Received from pan india colleges pre and after scrutinizing the originality of article 28 articles are accepted for publication in souvenir.

Brochure

ABOUT THE COLLEGE & DEPARTMENT:
 T.E. Government Degree College for Women (T.GDCW) was established in 1984 in Chirala (Prakasam District), Andhra Pradesh. The college is named after Sri. Tatyagada Annapurnaiah of Ramachandrapuram village for his significant donation. The institution is affiliated to Acharya Nageswara University, Guntur. The College is offering education in 12 AG and 3 PG courses in B.A., B.Com., B.Sc. programmes at UG level and M.A./M.Com., M.Sc., M.Tech/Comp at PG level. The college is imparting education to the poor, disadvantaged and weaker sections of the society. Students are provided education with best facilities like Formal classrooms, Digital classrooms, free Wi-Fi over the campus, R.O drinking water, Library with ample of books, e-Lit, subscription and student managed fest.

Department of Chemistry:
 The Department of Chemistry was established in 1986. The Department has been equipped with well-qualified, experienced and dedicated faculty members whose excellent contribution has been reflected in teaching, book-writing and research activities. Besides motivating the students for their academic excellence and research, members of the department are contributing their academic involvement in Research publications, Minor Research Projects, student projects etc.

Route:
 Chirala is a town in the Rajahmundry District. It is located between Vijayawada and Chennai Highway, 56 Km away from Vijayawada and 40 Km away from Ongole. It is well connected by both Rail and Road.

ORGANISING COMMITTEE
Patron
Dr. Ch. Rameswaramma, M.Sc., M.Phil, Ph.D.
 Principal

Organizing Secretary
Asst. Ch. Rupa Bharathi, M.Sc.,
 In charge of the Dept. of Chemistry

Treasurer
Dr. S. Rajasekhara Reddy, M.Sc., Ph.D.
 Lecturer in Chemistry

Members
Dr. N. Vijaya Lakshmi, Vice-Principal
Dr. B. Ratnavaramma, B.Sc., B.Tech, Coordinator
Dr. G.V.S. Vallabha, Lecturer
Asst. Dr. John Raju, B.Sc. Dept. of Economics
Dr. S. Sankarini, B.Sc. Dept. of Mathematics
Asst. V. Srividya Rao, B.Sc. Dept. of Physics
Asst. S. Sri Prasanna, B.Sc. Dept. of Political Science
Asst. GPRM. Nanda Kumar, B.Sc. Dept. of Physical Education
Asst. N. Rajya Lakshmi, B.Sc. of Computer Sci.
Asst. P. Jyoti Reddy, B.Sc. Dept. of Microbiology
Asst. V. Srividya Rao, B.Sc. Dept. of Commerce
Dr. G.K. Prasad, Asst. Dept. of English
Asst. S. Anjana Kumar, B.Sc. Dept. of History
Asst. M. Ashitha, B.Sc. Dept. of Statistics

THEME OF SEMINAR:
 Industrialization Globalization, Increasing population and Urbanization has been causing change in the lifestyle of the human beings.

In the process of development in various fields, migration of people from rural to urban areas, drastic increase in the population, adoption of different kind of transport modes, lack of awareness among the citizens leading to the usage of natural materials and improper disposal management of various materials resulting environmental pollution. As a result of all these there is a great loss to the welfare of human beings and the entire environment & ecological balance.

The growth and development of any nation is reflected in terms of the human development and resources of natural resources. Our country being equipped with a huge number of young people, instead of the loss and responsibility of every individual to give their respective role in protecting and sustaining our environment especially in these Pandemic situations that are alarming the world and accordingly. With this intention, Department of Chemistry has planned to organize the day National level Seminar.

Call for Papers:
 • Papers are invited from staff students, academicians and Research scholars of their Original Research work to be presented in the Technical sessions on the Theme and Sub Themes.

Sub Themes:

- ◆ Impact on Biodiversity
- ◆ Impact on Lifestyle
- ◆ Impact on Environment
- ◆ Impact on Natural Resources

Guidelines for Submission:
 Full length papers of A4 size (maximum in 4 pages) typed in Times New Roman font in 12 size with ample spacing in MS-Word format along with the Registration form should be sent on or before 15th October - 2022 by e-mail to subharthing@gmail.com. All selected papers will be published in a book with ISBN No.

For more details, please contact:
Ch. Rupa Bharathi Mob: No: 7282279411
Dr. S. Rajasekhara Reddy Mob: No: 9492236699
Dr. G.V.S Vallabha Mob: No: 9866081905

REGISTRATION FEE		
	Without Publication	With Publication
For Students and Research Scholars	Rs. 120/-	Rs. 180/-
For Academicians and Professionals	Rs. 300/-	Rs. 1200/-

Registration Fee can be paid to
Dr. S. Rajasekhara Reddy
Bank: KARIKUR VYSYA BANK, Nellore
A/c No: 4892155900002154
IFSC: KVBH0004802
Phone No: 9493134499

REGISTRATION FORM

ONE DAY NATIONAL SEMINAR ON
"CHALLENGING ENVIRONMENTAL CONDITIONS-BARRIER FOR HUMAN DEVELOPMENT"
 Name (in Capital Letters) _____

Designation _____

Address: _____

Mobile No. _____

E-mail: _____

Title of the Paper: _____

Date: _____ Signature _____

Programme Sheet

10:45 A.M. TECHNICAL SESSION - I In-charge: Dr.G.V.S. Vallinath-Lecturer in Chemistry Rapporteur: Smt.N.Raiva Lakshmi 10:45 A.M. Introduction of the Chief Guest: I.Suguna Kumar 10:50 A.M. KEY NOTE ADDRESS by Dr.A Venkata Swamy, Dept. of Environmental Sciences (ICT/CSIR Lab), Hyd. 12:00 Noon Paper presentations 1:30 P.M. TECHNICAL SESSION - II 2:00 P.M. In-charge: Dr.S.RAJA SEKHAR REDDY, Lecturer in Chemistry Rapporteur: P.Rohini, Lecturer in English 2:00 P.M. Introduction of the Chief Guest: Smt. S. Sri Prasanna, Lecturer in Politics 2:05 KEY NOTE ADDRESS by Dr. R.Ramesh Raju, Asst. Professor, Dept. of Chemistry, ANU 3:15 P.M. Paper presentations 4:00 P.M. VICTORY FUNCTION 4:15 P.M. Closing Remarks by the Principal Felicitation to Chief Guests Vote of Thanks: Smt. Ch. Bala Bharathi NATIONAL ANTHEM	 YARRAGADDA ANNAPURNAMBA GOVERNMENT COLLEGE FOR WOMEN CHIRALA - 521155, RAPARTLA Dist., A.P. PROGRAMME SHEET One Day National Seminars on CHALLENGING ENVIRONMENTAL CONDITIONS-BARRIER FOR HUMAN DEVELOPMENT On 20th October 2022 Venue: SEMINAR HALL																						
	20th OCTOBER 2022 <table border="1"> <thead> <tr> <th>TIME</th><th>PROGRAMME/ EVENT</th></tr> </thead> <tbody> <tr> <td>8:30 - 9:30</td><td>Spot Registrations</td></tr> <tr> <td>9:30 A.M.</td><td>Commencement of Inaugural Session In-charge Smt.Ch.Bala Bharathi HOD, Dept. of Chemistry</td></tr> <tr> <td>9:35 A.M.</td><td>Inviting the Guests and Dignitaries on to the Dais Smt. PSudha Rani Lect. in Microbiology</td></tr> <tr> <td>9:40 A.M.</td><td>Prayer: Vandematharam</td></tr> <tr> <td>9:45 A.M.</td><td>Lightening of the Lamp</td></tr> <tr> <td>9:55 A.M.</td><td>Opening Remarks by Dr.Ch.Ramanamma Principal</td></tr> <tr> <td>10:05 A.M.</td><td>Releasing of Seminar Book</td></tr> <tr> <td>10:10 A.M.</td><td>Report by Seminar Secretary/Convenor Smt. Ch.Bala Bharathi, I/c Dept. of Chemistry</td></tr> <tr> <td>10:15 A.M.</td><td>Address by the Chief Guests 1. Dr. R.Ramesh Raju, Asst. Professor in Chemistry, Dept. of Chemistry, ANU 2. Dr.A.V. Swamy, Head Bioengineering and Environmental Sciences (BEEC), CSIR (Indian Institute of Chemical Tech- nology (CSIR-ICT), Hyderabad, India</td></tr> <tr> <td>10:30 A.M.</td><td>Closing of Inaugural Function</td></tr> </tbody> </table> TEA BREAK	TIME	PROGRAMME/ EVENT	8:30 - 9:30	Spot Registrations	9:30 A.M.	Commencement of Inaugural Session In-charge Smt.Ch.Bala Bharathi HOD, Dept. of Chemistry	9:35 A.M.	Inviting the Guests and Dignitaries on to the Dais Smt. PSudha Rani Lect. in Microbiology	9:40 A.M.	Prayer: Vandematharam	9:45 A.M.	Lightening of the Lamp	9:55 A.M.	Opening Remarks by Dr.Ch.Ramanamma Principal	10:05 A.M.	Releasing of Seminar Book	10:10 A.M.	Report by Seminar Secretary/Convenor Smt. Ch.Bala Bharathi, I/c Dept. of Chemistry	10:15 A.M.	Address by the Chief Guests 1. Dr. R.Ramesh Raju, Asst. Professor in Chemistry, Dept. of Chemistry, ANU 2. Dr.A.V. Swamy, Head Bioengineering and Environmental Sciences (BEEC), CSIR (Indian Institute of Chemical Tech- nology (CSIR-ICT), Hyderabad, India	10:30 A.M.	Closing of Inaugural Function
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Figure 1 Organizing secretary and in-charge of the chemistry department Smt Ch.BalaBharathi addressing.





Figure 2 Her excellence Dr.Ch.Ramanamma. Our principal has warmheartedly welcomed the guests and the participants to get benefited from the lectures of the resource persons of the seminar.



Figure 3 Prof.G.Venkata swami, Former scientist, IICT ,Hyd. delivering his Keynote address



Figure 4 Asst. Prof. Dr. R.Ramesh Raju. ANU Guntur . delivering the Keynote address in the Second Session



Figure 5 Dr.G.V.S.Vallinath, Lecturer in chemistry conducting Facilitation programme to the Chief Guest and Resource Person



Figure 6 Dr.K.Srinivasulu garu lecturer in economics government degree college kanigiri Receiving certificate.



Students of Chirala Engineering College receiving certificates.



Students of GDC,Kanigiri Receiving certificates

Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

Name of the activity: Isolation And Estimation Of Carotenoids from Leaves by using photo colorimetry .

Date: 24-11-2022

Description: In this activity students trained regarding instrumental methods of chemical analysis. In this activity we have chosen digital photo colorimeter . Estimated chlorophyll in weighed leaves of *Pisina pulturima* based on absorbance. We plotted graphs wavelength vs absorbance vali dated Beers Law.

Objective: To train the students in instrumental methods of chemical analysis.

Outcome: Students Trained Regarding Instrumental Methods Of Chemical Analysis

Number of students participated: 11 (3rd year BHC)







Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

NATIONAL POLLUTION CONTROL DAY

DATE: 02.12.2022

SIGNIFICANCE OF THE DAY:

National Pollution Control Day is observed annually on December 2 to remember the people who lost lives during 1984 Bhopal Gas Tragedy. It is also the day to raise awareness about the hazards of air pollution.

The theme of National Pollution Control day 2022 is “ It is our duty to take into practice green ways through which the people can easily control pollution and make this world a better place to live in.

OBJECTIVE:

The objective of observing National Pollution Control Day is to make people aware and spread awareness in the industries that cause pollution. This day focuses on prevention of pollution and raising awareness about how we are misusing mother nature.

DESCRIPTION:

The department of chemistry observed National Pollution Control Day. The students of our college conducted an awareness rally in chirala town by giving slogans regarding the control of pollution. The staff of chemistry department participated in the Rally.

OUTCOME:

By conducting this Rally, the students became aware of various types of pollution. This rally helped to inculcate social responsibility in students. The Rally created awareness among the people about the importance of protection of environment from the pollution.

No of Students participated: 52



Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

NAME OF THE ACTIVITY: INDUSTRIAL VISIT TO HIGH TECH PHARMA

DATE:12/12/22

DESCRIPTION:

Department Of Chemistry Arrange Industrial Visit For 1st BSc Students. To enrich the knowledge levels of students with respect to the industrial processes that is production and quality control and about the instruments used for those purpose and instrumental interpretations. This activity is relevant to the curriculum and enhance the employability.

OUTCOME:

This Industrial Visit enriched the knowledge levels of the students with respect to the Steps Production and quality control followed by different industries.

NUMBER OF STUDENTS PARTICIPATED: 20

NUMBER OF STAFF PARTICIPATED: 1



INDUSTRIAL VISIT TO HIGH TECH PHARMA



ATOMIC ABSORPTION SPECTROSCOPY USED IN QUALITY CONTROL.

Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

NAME OF THE ACTIVITY: Safer and Greener Chemistry Practices.

DATE: 28.12.2022

OBJECTIVE:

The objective of this programme is to make the students understand what chemicals they are about to handle and the hazards associated with each one and how the proper usage of chemicals helps in reducing the environmental pollution.

DESCRIPTION:

The Post graduate students of Organic Chemistry of Bapatla Engineering college explained the Safer and Greener Chemistry Practices to the B.Sc students. They demonstrated the experiments and explained the students about the nature of different chemicals, precautions to be taken while handling them and first aid measurements to be adopted in the instance of direct exposure to them. The staff of chemistry department were participated in this programme.

OUTCOME:

By this programme the students felt enlightened and became aware of Safer and Greener Chemistry Practices.

No of Students participated: 65



Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

Extraction and estimation of chlorophyll from different leaves

Name of the activity: Extraction and estimation of chlorophyll from different leaves by using colorimetry.

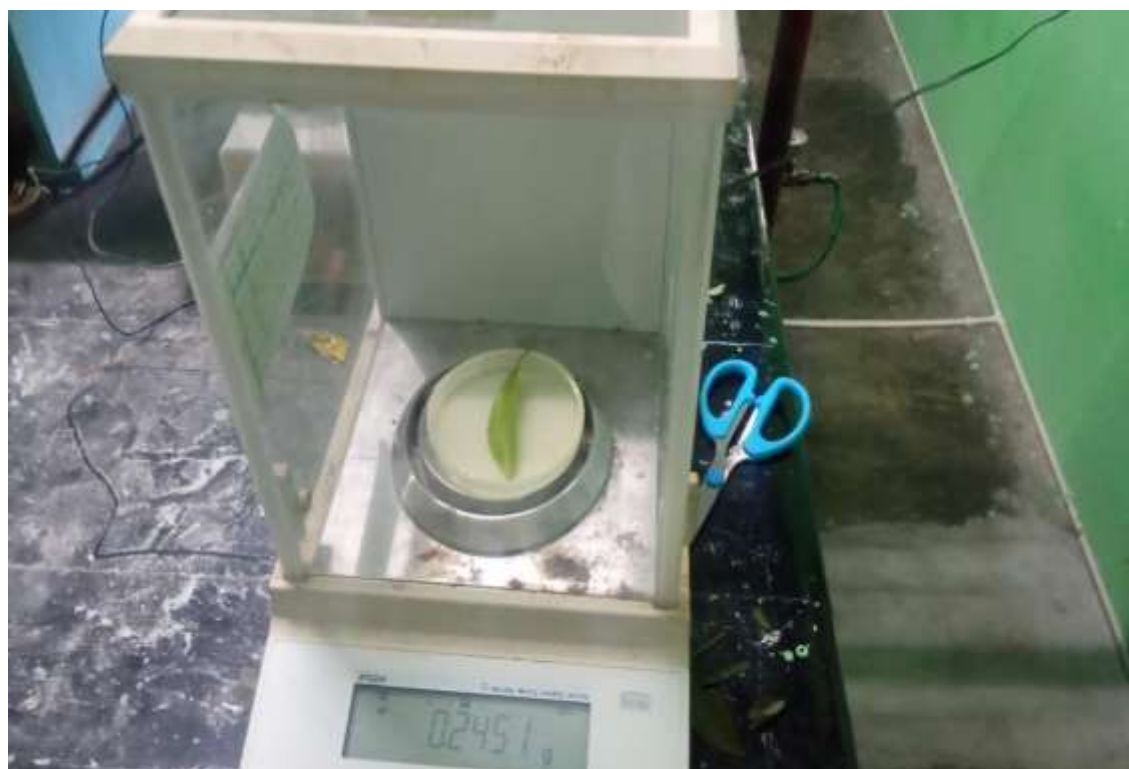
Date: 28-01-2023

Description: In this activity students trained regarding instrumental methods of chemical analysis. In this activity we have chosen digital colorimeter. Estimated chlorophyll in weighed leaves of different species based on absorbance. We plotted graphs wavelength vs absorbance.

Objective: To train the students in instrumental methods of chemical analysis.

Outcome: Students Trained Regarding Instrumental Methods Of Chemical Analysis

Number of students participated: 10 (3rd year MZC)







Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

NAME OF THE ACTIVITY: Awareness programme on water purification on the occasion of National Science Day.

DATE: 28/02/2023

DESCRIPTION: The department of chemistry of yagcw chirala has conducted awareness programme for teaching as well as non teaching staff in virtual room on the occasion of national science day .

RESULT: Teaching as well as non-teaching staff got awareness on the significance of water purification and methods to decrease TDS in water and the available gadgets for purification of drinking water and for softening of hard water by using geolites.



RESOURCE PERSON: SUBBARAO.M, SENIOR SCIENTIST, SUVEN WATER SOLUTIONS.



Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

NAME OF THE ACTIVITY: FIELD VISIT TO SARAL AGRO CHEMICALS

DATE: 14/03/23

DESCRIPTION:

Department Of Chemistry Arranged Field Visit For BSc Students. To enrich the knowledge levels of students with respect to the industrial processes that is production and quality control and about the instruments used for Preparation of Organic Fertilisers and Pesticides. Students Got Awareness about Mixing and Drying of Organic Fertilisers and Pesticides.

OUT COME:

This Field Visit Enriched The Knowledge Levels Of The Students With Respect To The Steps Production And Mixing And Drying Quality Control followed by different Industries.

NUMBER OF STUDENTS PARTICIPATED: 22

NUMBER OF STAFF PARTICIPATED: 1



YA Government Degree College for Women, Chirala.

Department of Chemistry

STUDENT SEMINARS

DATE: 06.06.2023

VENUE: Virtual class room

OBJECTIVE:

Conducting of seminars to students has numerous benefits. By participating in a seminar, the students improve their communication skills, it helps in gaining expert knowledge of subject. Students are able to know, how to say and speak in an appropriate manner. Through appropriate questions, students will demonstrate the understanding of discussions. Seminar helps in gaining better insight into the subject.

DESCRIPTION:

The students of I-B.Sc have given their presentations using Power Point on the topics Langmuir adsorption isotherm, Molecular orbital Theory, Benzene and its reactivity etc.,

OUTCOME:

Students by participating in seminar, developed their speech and came to know the presentation of information in well-structured manner. Seminar developed the ability of students to evaluate and reflect the information.

No of students participated: 20 Students from I-B.Sc





Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

NAME OF THE ACTIVITY: Student Quiz

DATE: 27.06.2023

OBJECTIVE:

The main objective of conducting a quiz programme to students is to give break from traditional class room learning. It expands students learning, knowledge and helps in exploring new skills. It also helps the students to get an opportunity to improve their team work skills.

DESCRIPTION:

The Department of chemistry conducted a Quiz to the I- B.Sc [BZC, BHC, MZC, MBTC] students on the topic” Benzene and its Reactivity”. Firstly the students are divided in to four groups named as Electron, Proton, Neutron And Nucleus. The students participated actively in answering the questions. The students of Nucleus group got highest marks. They are appreciated by giving the pens.

OUTCOME:

By conducting quiz programme, it helps the students to practice existing knowledge by stimulating interest in learning about new subject matter. By answering the questions, the students will feel confident in presentation.

No of Students participated: 17



Y.A GOVT COLLEGE FOR WOMEN, CHIRALA

Department of Chemistry

NAME OF THE ACTIVITY: Group Discussion

DATE: 28.06.2023

OBJECTIVE:

The objective of conducting Group discussion is to improve the students communication skills. The activity helps in gaining expert knowledge in subject and also the students learn how to say and speak in proper manner. It also helps in gaining better insight in to the subject.

DESCRIPTION:

The Department of chemistry conducted a Group Discussion to the II- B.Sc [BZC, BHC, MZC, MPC] students on the topic” Carbohydrates”. The students participated actively in The Group Discussion.

OUTCOME:

Students by participating in the Group Discussion developed their speech and came to know the presentation of information in well structured manner. Group Discussion developed the ability of students to evaluate and reflect the information.

No of Students participated: 41



YA Government College for Women, Chirala.

Department of Chemistry

AWARENESS RALLY ON USAGE OF CLAY VINAYAKA

DATE: 16-09-2023

OBJECTIVE:

The main objective of using clay Vinayaka idols on Vinayaka Chaturthi is to protect the environment, human health and water resources because ganesh idols made of plaster of paris which is non-biodegradable, made of poisonous and unsafe colors which are polluting the sea life and water bodies. To secure our nature, we should hold hands and do our bit.

DESCRIPTION:

The students of our college prepared ganesh idols by using clay and conducted rally in chirala town and created awareness among people on the usage of clay Vinayaka idols to protect our environment.

OUTCOME:

Total 80 students participated in the rally and created awareness among public about usage of environment friendly clay Vinayaka idols.



YA Government Degree College for Women, Chirala.

Department of Chemistry

WORLD OZONE DAY

DATE: 16-09-2023

OBJECTIVE:

The world ozone day is observed on 16 th September. It is celebrated to spread awareness among people about the depletion of the ozone layer and search for the possible solutions for the preservation of ozone layer. By conducting this day, we discuss about the benefits of ozone layer to spread the awareness.

Theme: Montreal Protocol: fixing the Ozone layer and reducing climate change

DESCRIPTION:

The department of chemistry observed world ozone day. The staff members of chemistry department and other departments participated in this programme and explained students about the importance of protection of ozone layer. The students and the staff members conducted rally in chirala town and created awareness among public about the importance of preservation of ozone layer.

OUTCOME:

By conducting this event, the students understand the importance of ozone layer protection and preservation. It makes them to think about the measures to be followed by the common man.

No of Students participated: 70



