



TGTWR DEGREE COLLEGE (GIRLS), DAMMAPETA,
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DEPARTMENT OF BOTANY ACTIVITIES

ACADAMIC YEAR -2018-2019

NUTRITION WEEK

Organized by: Department of Botany

Location: TTWERDC Dammapeta

Date: 01-09-2018

Introduction

The Department of Botany at TTWERDC Dhammapeta celebrated **Nutrition Week** with great enthusiasm, focusing on creating awareness about the importance of balanced nutrition and its impact on health. The event aimed at educating students, faculty, and the local community about the role of plants in promoting health and wellness. The week-long celebration featured a variety of activities, including educational workshops, seminars, interactive sessions, and community outreach.

Objectives of the Celebration

- **Awareness Raising:** To spread knowledge about the significance of nutrition, healthy eating habits, and the role of botanical resources in providing essential nutrients.
- **Promote Healthy Living:** To encourage the community and students to adopt a more nutritious lifestyle, incorporating locally grown fruits, vegetables, and herbs.
- **Showcase Plant-based Nutrition:** Highlight the various plant-based foods that can contribute to a balanced diet and their nutritional benefits.



Activities Conducted:

Inaugural Ceremony: The celebration was officially kicked off with an inaugural ceremony, attended by the Principal, faculty members, and students of the Department of Botany. The ceremony set the tone for the week with speeches emphasizing the importance of plant-based nutrition.

Conclusion:

The Nutrition Week celebration organized by the Department of Botany at TTWERDC Dhammapeta was a grand success. It not only provided valuable insights into the importance of nutrition but also promoted the use of plant-based foods as a means of achieving optimal health. Through interactive sessions, workshops, and community outreach, the event left a lasting impact on all those who participated. The Department of Botany continues to be committed to promoting sustainable, healthy living by integrating the wisdom of traditional plant-based nutrition with modern dietary knowledge.

World ozone day

Date of Celebration: 16-09-2018

Organized by: Department of Botany

Venue: TTWRDC Dammapeta

Introduction:

World Ozone Day, celebrated on September 16 every year, marks the anniversary of the signing of the Montreal Protocol in 1987, an international treaty designed to protect the ozone layer by phasing out the production and consumption of ozone-depleting substances. The Department of Botany at TTWRDC Dammapeta organized an event to raise awareness about the importance of the ozone layer, its role in protecting life on Earth, and the ongoing global efforts to safeguard it.

Student Presentations and Activities:

To engage students and encourage active participation, the Department of Botany organized presentations and discussions on various topics related to the ozone layer. Students shared their research findings, focusing on the effects of ultraviolet radiation on plant life, the impact of ozone depletion on photosynthesis, and the global efforts to repair the ozone layer through the Montreal Protocol.



Awareness Campaign:

As part of the celebration, the department launched an awareness campaign with the slogan "Protect the Ozone, Protect the Earth." Students created posters, pamphlets, and digital content which were displayed around the campus. These materials were designed to educate students and the local community about the importance of using products that do not contain ozone-depleting substances.

Tree Plantation Drive:

In alignment with the event's theme of environmental protection, a tree plantation drive was conducted within the campus grounds. Students and faculty members planted saplings of indigenous species, contributing to the promotion of green spaces and the reduction of carbon footprints.

QUIZ COMPETITION

Topic: Plant Anatomy

Date of Event: 20-09-2018

Venue: TTWRDC Dhammapeta

Organized by: Department of Botany, TTWRDC Dhammapeta

Topic of Quiz: Plant Anatomy

Introduction

The Department of Botany at TTWRDC Dhammapeta organized an engaging and informative quiz competition on the topic of *Plant Anatomy*. The event aimed to promote awareness and enhance the knowledge of students regarding the internal structures and functions of plants. Plant anatomy is a vital subject in the field of botany, and this quiz competition served as an excellent platform for students to showcase their understanding of plant tissues, cellular structures, and their roles in the life cycle of plants.

Objective of the Quiz Competition

The primary objectives of the quiz competition were:

1. **To test the knowledge of students** on plant anatomy, focusing on the structure and function of plant cells, tissues, and organs.
2. **To encourage active learning** and participation in the field of botany among students.
3. **To promote teamwork and healthy competition** among students of different levels.
4. **To create an interest in the scientific study of plants** and their internal mechanisms.

Event Details

The quiz competition was structured in several rounds to assess participants' knowledge in various aspects of plant anatomy. The competition was open to students of all years, with teams representing different departments of the college. The event was conducted in a lively and engaging manner, making it both educational and enjoyable for the participants and the audience.



Key Topics Covered

The quiz focused on various fundamental aspects of plant anatomy, including:

- **Plant Cell Structure:** Understanding the structure of plant cells, including cell walls, chloroplasts, vacuoles, and other organelles.
- **Types of Plant Tissues:** Meristematic tissue, permanent tissue (simple and complex), and vascular tissue.
- **Anatomy of Roots, Stems, and Leaves:** Structure and functions of the various types of roots (taproot, fibrous root), stem (herbaceous, woody), and leaf (simple, compound).
- **Vascular Tissues:** Xylem and phloem tissues, their components, and functions in transporting water, minerals, and food throughout the plant.

- **Xylem and Phloem:** Detailed understanding of their structures, elements (e.g., tracheids, vessels, sieve tubes), and their roles in water and nutrient conduction.
- **Microscopic Structure of Plant Parts:** The cellular arrangement in tissues like epidermis, cortex, and vascular bundles.

Conclusion:

The quiz competition on plant anatomy, organized by the Department of Botany at TTWRDC Dhammapeta, was a huge success. It provided an excellent platform for students to deepen their knowledge of plant anatomy while fostering a spirit of teamwork and healthy competition. The event not only tested the participants' theoretical knowledge but also provided a fun and interactive way of learning about the fascinating world of plants. The department plans to continue such events in the future to promote scientific learning and foster a deeper appreciation for the subject

GROUP DISCUSSION

Date of Event: 05-10-2018

Location: TTWRDC Dhammapeta

Organized by: Department of Botany

Participants: Students, Faculty

Introduction:

The Department of Botany at the Telangana Tribal Welfare Residential Degree College (TTWRDC) Dhammapeta organized a group discussion on [Insert Topic]. The event aimed at enhancing students' understanding of key botanical concepts and fostering critical thinking, communication skills, and teamwork among participants. The discussion served as a platform for students to express their viewpoints, learn from peers and experts, and develop a deeper appreciation for the subject.

Objective:

The primary objectives of the group discussion were:

- To engage students in meaningful dialogue about current trends and challenges in the field of botany.
- To encourage active participation and critical thinking.
- To promote a collaborative environment where students could learn from each other's perspectives.
- To provide an opportunity for faculty to mentor students and guide them in the discussion process.



- **Recent Advances in Botany –**

New developments in plant biology, genetic research, and sustainable agriculture

- **Conservation Efforts –**

Importance of preserving biodiversity and the role of botany in environmental conservation

- **Impact of Climate Change on Plant Life –**

Understanding how climate change affects plant growth, distribution, and ecosystems.

- **Applications of Botany in Daily Life –**

How botanical knowledge is used in medicine, agriculture, and environmental management.

Conclusion:

The group discussion conducted by the Department of Botany at TTWRDC Dhammapeta was a successful academic event that promoted active participation, critical thinking, and the exchange of ideas among students and faculty. It provided an opportunity for participants to discuss key issues in botany while developing essential communication and teamwork skills. The department plans to organize more such events in the future to continue fostering a culture of academic excellence and collaborative learning.

INTERNATIONAL SCIENCE DAY

Date: 24-11-2018

Event: International Science Day

Venue: TTWRDC Dhammapeta College, Telangana

Introduction:

The International Science Day, celebrated on November 24, 2024, at TTWRDC Dhammapeta College, was a grand occasion that brought together students, faculty, and distinguished guests to celebrate the significance of science in our daily lives and its role in shaping a better future. The event aimed to inspire the younger generation to pursue scientific endeavors and increase awareness about

Activities:

Interactive Sessions:

Students participated in interactive discussions about how science impacts various fields such as medicine, agriculture, and space exploration. These sessions encouraged students to think critically and explore scientific subjects beyond the classroom.

Poster Presentation:

The poster presentation session allowed students to express their ideas on various scientific topics. The students creatively illustrated concepts related to climate change, space exploration, and new medical advancements.

Conclusion:

The International Science Day at TTWRDC Dhammapeta College was a remarkable success. It provided an excellent platform for students to showcase their scientific talent, engage with experts, and learn more about the transformative power of science. The event not only celebrated the achievements in the scientific world but also inspired the next generation of scientists to pursue knowledge and innovation.

The celebrations ended with a vote of thanks by the event coordinator, acknowledging the efforts of all involved and encouraging continued scientific exploration in the future.

National pollution prevention day

Date: 02-12-2018

Event: National pollution prevention day

Venue: TTWRDC Dhammapeta College, Telangana

Introduction:

National Pollution Prevention Day was celebrated with great enthusiasm at TTWRDC (Telangana Tribal Welfare Residential Degree College) Dhammapeta, highlighting the significance of reducing pollution and promoting environmental sustainability. This observance is aimed at creating awareness among students and the community about the pressing need for pollution control and its long-term benefits to human health and the environment.

Objective:

The main objective of the event was to encourage students to take responsibility in minimizing pollution and to educate them about the various ways in which pollution can be reduced in their day-to-day lives. The celebration was part of the college's commitment to fostering eco-consciousness among its students and encouraging active participation in environmental conservation efforts.



Event Highlights:

Awareness Talks:

The highlight of the event was the awareness session conducted by environmental experts, including local activists and professors from the college's environmental science department. Topics covered during these talks included:

- The various types of pollution (air, water, soil, noise, and plastic)
- The impact of pollution on health, wildlife, and the climate
- Pollution prevention strategies, such as reducing waste, adopting sustainable practices, and using eco-friendly products
- The role of government policies and individual actions in reducing pollution

Students were encouraged to adopt practices such as waste segregation, using public transport, avoiding the use of plastic, and planting trees to combat environmental pollution.

Clean Campus Initiative:

A campus cleanliness drive was conducted on the day, where students cleaned the college grounds and surrounding areas, focusing on the proper disposal of waste and the importance of keeping the environment clean. This initiative not only helped in reducing litter on campus but also encourage students to practice cleanliness in their daily lives.

Conclusion:

The National Pollution Prevention Day celebration at TTWRDC Dhammapeta College was a grand success, with active participation from students, faculty, and the local community. The event successfully raised awareness about the detrimental effects of pollution and the importance of adopting sustainable practices for the betterment of the environment. By taking part in various activities such as rallies, tree plantations, and cleanliness drives, the participants demonstrated their commitment to preserving the planet for future generations.

NATIONAL SCIENCE DAY

Date of Event: 28-02-2019

Venue: TTWRDC Dhammapeta College

Introduction:

National Science Day is celebrated every year on February 28 to honor the discovery of the Raman Effect by the renowned Indian physicist, Dr. C. V. Raman, in 1928. This day aims to highlight the importance of science in our daily lives and its contribution to the development of society. TTWRDC Dhammapeta College observed National Science Day 2024 with enthusiasm, focusing on the theme "Global Science for Global Well-being," which underscores the role of science in addressing global challenges.

Objectives of the Event:

- To celebrate the significance of science and technology.
- To encourage students and faculty to take an active interest in scientific research.
- To raise awareness about the importance of science for global well-being.
- To acknowledge the contribution of Indian scientists, especially Dr. C. V. Raman, to the world of science.

Event Highlights:

Inauguration Ceremony:

The event began with a formal inauguration. The principal of the college, Dr. S. Ramesh, welcomed the guests and students. The program started with the lighting of the lamp and the recitation of the national anthem. A brief speech was given by the Principal, emphasizing the importance of scientific advancements for societal progress and the crucial role that students can play in this field.

Science Exhibitions:

The students of TTWRDC Dhammapeta College participated in a vibrant science exhibition, showcasing a variety of projects and experiments. These included:

- Renewable energy solutions like solar-powered devices and wind energy models.
- Innovations in healthcare, such as affordable medical technologies.
- Environmental protection projects aimed at reducing pollution and promoting sustainability.

Each project was accompanied by detailed explanations from the students, demonstrating their understanding of the scientific concepts involved.



Student Presentations:

Students from various disciplines were given the opportunity to present their scientific research papers. Topics covered included:

- The role of biotechnology in improving agriculture.
- The impact of artificial intelligence on healthcare.
- Advancements in space exploration and their applications.

The presentations were followed by interactive Q&A sessions, encouraging lively discussions among students and faculty.

Conclusion:

The National Science Day celebration at TTWRDC Dhammapeta College was a grand success. The event not only celebrated the achievements of science but also inspired students to explore scientific fields and contribute to global well-being. The various activities such as the exhibitions, presentations, and quiz competition offered a platform for students to display their creativity and knowledge in science.

WORLD EARTH DAY

Date:22-04-2019

Venue: TTWRDC College

Introduction:

World Earth Day is celebrated globally on April 22 every year to raise awareness about environmental issues and to encourage individuals, communities, and organizations to take action for the protection of our planet. The TTWRDC College, dedicated to academic excellence and social responsibility, organized a series of events to mark this important day. This year, the Earth Day celebration aimed to engage students, faculty, and the surrounding community in environmental conservation activities and discussions.

Objective:

The primary objective of the celebration was to promote environmental sustainability and inspire action toward addressing issues such as climate change, waste management, deforestation, and pollution. The events were designed to provide educational experiences, practical solutions, and opportunities for students to actively participate in efforts to preserve the environment.

Eco-Friendly Initiatives Exhibition

In the afternoon, students set up an exhibition in the college courtyard showcasing eco-friendly projects and initiatives. The exhibition featured a variety of student-led efforts aimed at promoting sustainability, such as:

- **Plastic Waste Reduction Campaign:** Students displayed posters, infographics, and reusable alternatives to single-use plastics.
- **Green Gardening Project:** A demonstration of organic farming techniques and sustainable gardening practices that can be adopted in urban areas.
- **Energy Conservation Tools:** Models and demonstrations of solar-powered gadgets, energy-efficient appliances, and ways to reduce energy consumption in daily life.



Conclusion:

World Earth Day at TTWRDC College served as a valuable occasion for promoting environmental awareness and sustainable practices. Through a combination of educational lectures, hands-on activities, and community involvement, the celebration inspired all participants to be more conscious of their environmental footprint. The college's commitment to green initiatives and sustainability continues to play a pivotal role in shaping a responsible and eco-conscious student body.

INTERNATIONAL BIODIVERSITY DAY

Date: 22-05-2019

Location: Telangana Tribal Welfare Residential Degree College (TTWRDC), Dhammapeta, Telangana

Organized by: Botany department

Introduction

International Biodiversity Day is celebrated every year on May 22nd to raise awareness about the importance of biodiversity and the need for its protection. This year, the event was held at the Telangana Tribal Welfare Residential Degree College (TTWRDC) in Dhammapeta, Telangana. The celebration was organized to engage students, faculty, and the local community in discussions, activities, and actions aimed at promoting biodiversity conservation and sustainable practices.

Interactive Sessions

Tree Plantation Drive:

A tree plantation drive was conducted on the college campus, where students and faculty planted native tree species. This activity highlighted the importance of reforestation and habitat restoration in the fight against biodiversity loss.



Key Takeaways:

- **Biodiversity is crucial** for sustaining life on Earth and for ensuring food security, clean air and water, and climate stability.
- **Local engagement** is essential in biodiversity conservation efforts, particularly in tribal and rural areas where people are most directly connected to nature.
- **Sustainable practices** such as reforestation, waste reduction, and wildlife conservation are key to reversing the loss of biodiversity.
- **Education and awareness** play a vital role in creating a more informed and responsible generation that can contribute to global conservation efforts.

DEPARTMENT OF BOTANY ACTIVITIES

ACADAMIC YEAR -2019-2020

NUTRITION WEEK

Date: 01-09-2019

Location: Telangana Tribal Welfare Residential Degree College (TTWRDC), Dhammapeta

Organized by: Botany department

Introduction:

Nutrition Week is an annual event observed to raise awareness about the importance of proper nutrition and its impact on health. This year, the Nutrition Week celebration at the Telangana Tribal Welfare Residential Degree College (TTWRDC) in Dhammapeta focused on educating students and the surrounding community about healthy eating habits, balanced diets, and the prevention of malnutrition, especially in tribal populations.

The event aimed to foster a greater understanding of how nutrition directly influences physical and mental well-being, and to promote the adoption of healthier food practices in the daily lives of students and local residents.

Objective :

Raising Awareness:

The event sought to highlight the importance of balanced nutrition in promoting overall health and preventing lifestyle diseases.

Educational Outreach:

To provide students and local tribal communities with practical knowledge on selecting nutritious foods within the scope of available resources.

Behavioral Change:

To encourage better eating habits among the students of TTWRDC and local youth by providing them with tools to make informed choices about their diet.

Empowerment:

To empower students and tribal families with the knowledge they need to combat malnutrition, which remains a significant health concern in rural and tribal areas.

Awareness Campaign:

A poster campaign was organized throughout the campus and surrounding areas to raise awareness about nutrition. Posters focused on topics like:

- The importance of eating seasonal fruits and vegetables
- How to avoid processed and sugary foods
- The role of nutrition in improving academic performance



Food Demonstration

In a hands-on session, nutrition experts and local chefs demonstrated how to prepare simple, nutritious meals using affordable, locally available foods. The demonstration included:

- **Traditional Tribal Dishes:** Highlighting the nutritional value of foods commonly consumed by tribal communities, such as millets, leafy greens, and pulses.
- **Healthy Snacks:** A demonstration of healthy snacks that can replace processed foods, such as roasted chickpeas, vegetable salads, and fruit chaat.

Awareness Campaign

A poster campaign was organized throughout the campus and surrounding areas to raise awareness about nutrition. Posters focused on topics like:

- The importance of eating seasonal fruits and vegetables
- How to avoid processed and sugary foods
- The role of nutrition in improving academic performance

Outcomes of the Event:

Increased Awareness:

The event successfully raised awareness about the importance of nutrition, especially among the students and local community members. Many students expressed interest in adopting healthier food habits.

Active Participation:

There was active participation from the students and local community members in the workshops, food demonstrations, and interactive sessions.

Empowerment through Knowledge:

By equipping the attendees with knowledge about affordable and nutritious food options, the event contributed to empowering the participants to make informed food choices.

Encouragement of Traditional Diets:

The celebration encouraged students and locals to embrace traditional diets that are not only healthy but also sustainable and locally available.

Commitment to Long-Term Health:

Several students showed interest in forming a Nutrition Club at TTWRDC to continue discussions on health and wellness throughout the year.

Conclusion:

The Nutrition Week celebration at TTWRDC Dhammapeta was a resounding success in terms of its reach and impact. By focusing on nutrition education, local food systems, and health, the event played a crucial role in improving awareness about nutrition and its vital role in promoting health, particularly in rural and tribal areas.

The event was a step toward fostering healthier communities in Telangana, encouraging the adoption of better dietary practices, and reducing the prevalence of nutrition-related health issues among students and tribal populations.

Future initiatives should continue to focus on sustainable and culturally appropriate nutrition education and support for healthier, more balanced diets.

WORLD OZONE DAY

Date: 16-09- 2019

Venue: TTWRDC Dhammapeta

Event: World Ozone Day Celebration

Organized by: Telangana Tribal Welfare Residential Degree College (TTWRDC), Dhammapeta

Introduction:

The World Ozone Day, celebrated annually on September 16, aims to raise awareness about the importance of protecting the ozone layer and to promote global action to reduce substances that deplete it. This year, TTWRDC Dhammapeta hosted a meaningful event to mark this significant occasion. The celebration included a series of informative activities aimed at educating students, faculty, and the local community about the ozone layer's role in safeguarding life on Earth.

Objective of the Event:

The primary objective of the World Ozone Day celebration at TTWRDC Dhammapeta was to:

- Raise awareness about the critical role of the ozone layer in protecting life on Earth.
- Highlight the importance of collective global efforts to prevent further depletion of the ozone layer.
Encourage the adoption of sustainable practices in daily life, focusing on the reduction of substances that harm the ozone layer.



Student Activities and Awareness Programs:

The students of TTWRDC Dhammapeta actively participated in various educational and creative activities:

Poster Making and Slogan Writing Competition:

Students showcased their creativity by creating posters and writing slogans that conveyed the message of ozone protection and the importance of sustainable practices.

Rally for Ozone Protection:

A group of students organized a rally around the campus, holding banners and posters with slogans such as "Save the Ozone, Save Life," "Protect Our Planet, Protect the Ozone Layer," and "Ozone Layer is Our Responsibility."

Impact and Outcome:

The World Ozone Day celebration at TTWRDC Dhammapeta was a significant success in terms of raising awareness and engaging the community in environmental action. The event helped:

- Educate students about the science and importance of the ozone layer.
- Foster a sense of responsibility towards environmental conservation.
- Promote sustainable practices, including the reduction of harmful chemicals and the protection of natural resources.
- Strengthen the community's commitment to global environmental agreements like the Montreal Protocol.

Conclusion:

The World Ozone Day celebration at TTWRDC Dhammapeta was a well-organized and impactful event, highlighting the urgency of ozone layer protection and climate change mitigation. Through the involvement of students, faculty, and the local community, the event successfully communicated the message of environmental conservation and the importance of global cooperation in tackling ozone depletion.

QUIZ COMPETITION

Date: 20-10-2019

Venue: TTWRDC Dhammapeta

Organized By: Department of Botany

Topic: **Reproduction** of plants

Introduction:

The Department of Botany at TTWRDC Dhammapeta organized a quiz competition on the topic "Reproduction of Plants," aimed at enhancing the knowledge of students regarding various plant reproduction processes. The event was conducted to foster interest in botany and encourage students to explore the fascinating mechanisms that drive plant growth and reproduction. The competition was part of the department's ongoing efforts to engage students in learning beyond the classroom.

Objective of the Quiz Competition:

The main objectives of the quiz competition were:

1. To test the students' understanding of plant reproduction, including sexual and asexual methods.
2. To create awareness about various reproductive structures and processes in plants such as flowers, seeds, and spores.
3. To encourage friendly competition and teamwork among the students.
4. To stimulate critical thinking and curiosity about botanical science.



5.

Participants:

The quiz competition saw active participation from students across various levels of study in the Department of Botany. The students were divided into teams, with each team consisting of 3 to 4 members. A total of [insert number] teams competed in the event, demonstrating strong enthusiasm and preparation.

Format of the Quiz:

The competition consisted of multiple rounds, with each round testing different aspects of plant reproduction:

1. Round 1 – General Knowledge on Plant Reproduction:

Questions about the basic concepts of plant reproduction, such as the difference between sexual and asexual reproduction, types of flowers, pollination mechanisms, and seed development.

2. **Round 2 – Picture Round:**

Participants were shown images of different reproductive structures such as flowers, fruits, seeds, and vegetative propagules. They had to identify the structures and answer related questions.

3. **Round 3 – True or False Round:**

In this round, teams had to determine whether the statements about plant reproduction were true or false, testing their knowledge of facts and myths related to plant biology.

4. **Round 4 – Rapid Fire Round:**

A fast-paced round where each team had to answer a series of questions in a short amount of time.

Points were awarded for each correct answer.

Conclusion:

The quiz competition was well-received by both students and faculty. The event provided an excellent opportunity for students to reinforce their knowledge of plant reproduction and apply what they had learned in their coursework. The atmosphere was lively, with participants displaying keen interest in the topic. Students appreciated the engaging nature of the event and expressed a desire for similar competitions in the future.

The Department of Botany plans to continue such initiatives to promote scientific curiosity and encourage students to explore the diverse world of plant biology.

INTERNATINAL SCIENCE DAY

Date: 10-11-2019

Venue: TTWRDC Dhammapeta

Organized by: Botany department

Introduction:

International Science Day, celebrated annually on 10th November, was observed with great enthusiasm and participation at the Telangana Tribal Welfare Residential Degree College (TTWRDC) in Dhammapeta. The event aimed to inspire students and faculty to appreciate the significance of science in global development and personal well-being. It also encouraged young minds to delve deeper into scientific research and innovations.

Objectives of the Celebration:

The primary objectives of the International Science Day celebration at TTWRDC Dhammapeta were:

1. To raise awareness about the role of science in solving global challenges.
2. To showcase the importance of science and technology in enhancing the well-being of communities.
3. To engage students, faculty, and the local community in scientific discussions and activities.
4. To encourage students, particularly from tribal backgrounds, to pursue careers in science and technology.

Guest Lectures and Panel Discussions:

A series of guest lectures and panel discussions were held on various topics related to science and its impact on society. The session topics included:

- "Innovations in Health and Medicine for Rural Populations"
- "The Role of Science in Environmental Conservation"
- "Technology and the Future of Tribal Communities"



Outcomes and Impact:

The International Science Day celebration at TTWRDC Dhammapeta successfully achieved its goals of promoting scientific awareness and inspiring students to pursue scientific careers. The activities and discussions fostered an environment of curiosity and critical thinking among students. The science exhibition and workshops, in particular, provided students with an opportunity to showcase their creativity and problem-solving skills, highlighting the practical applications of science in daily life.

The event also created an avenue for networking and collaboration between students, faculty, and local communities. By focusing on the needs and challenges faced by tribal populations, the event helped raise awareness about the importance of inclusive science and technology that is accessible and beneficial to all sections of society.

Conclusion:

The International Science Day celebration at TTWRDC Dhammapeta was a resounding success, with active participation from students, faculty, and the local community. Through the various activities and events organized, the celebration not only honored the contributions of science to global well-being but also encouraged young minds to embrace scientific inquiry as a tool for solving real-world problems. As the college continues to nurture future scientists, this event served as a reminder of the transformative power of science in building a better, more sustainable world for all.

GROUP DISCUSSION

Date: 20-11-2019

Location: TTWRDC Dhammapeta,

Organized by: Department of Botany, TTWRDC Dhammapeta

Participants: BZC I&II&III

Introduction:

The Department of Botany at the Telangana Tribal Welfare Residential Degree College (TTWRDC) Dhammapeta organized a group discussion to enhance the understanding and critical thinking skills of students regarding important botanical topics. The event aimed to engage students in a collaborative learning environment, encouraging them to explore diverse perspectives on various issues related to botany and its applications.

Objectives of the Group Discussion

The key objectives of the group discussion were:

1. To promote interactive learning and peer discussions among students.
2. To enhance the ability of students to express their opinions and thoughts on botanical subjects.
3. To develop analytical skills in interpreting and discussing scientific research and topics.
4. To encourage teamwork and effective communication within the students.

Topics Discussed

The group discussion revolved around the following topics related to the field of Botany:

1. **The Importance of Plant Conservation**

- Students discussed the impact of human activity on biodiversity and the importance of conserving plant species, focusing on endangered species and their ecosystems.
2. **Recent Advances in Plant Biotechnology**
 - The discussion highlighted the potential of plant biotechnology in agricultural practices, such as genetic modification, disease resistance, and the role of biotechnology in addressing food security.
 3. **Climate Change and its Impact on Plant Life**
 - Students explored how changing climate conditions are affecting plant growth, distribution, and agricultural productivity, as well as strategies for mitigating the effects of climate change on plants.
 4. **Medicinal Plants and Their Role in Traditional and Modern Medicine**
 - The group discussed the significance of medicinal plants in various cultures and how modern science is rediscovering their healing properties in treating various ailments.



5.

Methodology

The group discussion followed a structured approach:

- **Introduction:**

The facilitator introduced the topics to the participants and provided an overview of the discussion format.

- **Group Formation:**

Students were divided into small groups, with each group assigned a specific topic to discuss. Each group was tasked with preparing key points and arguments related to their topic.

- **Discussion Phase:**

The students shared their thoughts and opinions within their respective groups, allowing for open dialogue and the exchange of ideas.

- **Conclusion:**

After the discussion, each group presented their conclusions to the entire class. A summary was provided by the facilitator, highlighting key points from each discussion.

Conclusion:

The group discussion conducted by the Department of Botany was a fruitful learning experience for the students of TTWRDC Dhammapeta. It not only helped students improve their communication and critical thinking skills but also deepened their understanding of key issues in the field of botany. The event was a valuable platform for encouraging intellectual engagement and fostering a collaborative academic environment.

NATIONAL POLLUTION PREVENTION DAY

Date of Event: 02-12-2019

Venue: TTWRDC Dhammapeta

Objective of the Event:

The National Pollution Prevention Day is observed annually on December 2nd to raise awareness about the detrimental effects of pollution on human health, the environment, and the ecosystem. This day serves to promote actions and measures to prevent and control pollution in various sectors like air, water, and land. The primary objective of this celebration at TTWRDC Dhammapeta was to educate students and the local community about pollution prevention, its importance, and the steps they can take to contribute to a cleaner, healthier environment.

Awareness Campaign:

- Students from various departments participated in a street play that depicted the causes and consequences of pollution. The play was aimed at illustrating the impact of pollution on public health and the ecosystem.
- Posters and banners were put up around the campus, displaying key facts about pollution prevention, the harmful effects of single-use plastics, and the importance of waste segregation.

Tree Plantation:

- A tree plantation drive was organized to promote the importance of greenery in mitigating air pollution. Over 100 saplings were planted around the college campus, with the participation of students and faculty. The event was aimed at increasing green cover and promoting environmental sustainability.

Pledge for Pollution Prevention:

- To conclude the day's activities, a pollution prevention pledge was administered by Dr. K. Suresh, wherein all participants promised to reduce waste, conserve resources, and adopt eco-friendly practices in their daily lives. The pledge included commitments to:
 - Reduce plastic consumption.
 - Use public transport or carpool to reduce air pollution.
 - Participate in community clean-up activities.
 - Promote awareness about pollution in their communities.



Conclusion:

- The National Pollution Prevention Day celebration at TTWRDC Dhammapeta was a great success, with active involvement from students, staff, and the local community. Through a series of informative sessions, workshops, and hands-on activities, the event effectively raised awareness about the importance of preventing pollution and its impact on health and the environment.
- The event successfully aligned with the objectives of National Pollution Prevention Day, fostering a sense of responsibility towards environmental preservation and sustainability. The college is committed to continuing these efforts in the future to ensure a cleaner, greener world.

National science day

Date of Event: 28-02-2020

Venue: Department of Botany, TTWRDC Dhammapeta

Organized by: Department of Botany, TTWRDC Dhammapeta

1. Introduction

National Science Day is celebrated every year in India on February 28th to commemorate the discovery of the Raman Effect by the eminent Indian physicist, Sir C.V. Raman, in 1928. The day is dedicated to honoring the contributions of scientists to the development of science and technology and promoting scientific awareness among the public.

This year, the Department of Botany at TTWRDC Dhammapeta organized a series of events to mark National Science Day. The theme for the year 2024, "Women in Science," focused on recognizing the significant contributions made by women scientists in the field of research and innovation



Scientific Exhibitions and Presentations:

Following the keynote address, the event transitioned into a scientific exhibition, where students and faculty from the Department of Botany showcased their research work and projects. The displays covered a wide range of topics such as:

- **Plant Conservation:** Projects focused on endangered plant species and the role of botany in conservation efforts.
- **Medicinal Plants:** Research on the use of local plants in traditional medicine.
- **Agricultural Sustainability:** Innovations in crop management, pest control, and soil fertility enhancement.
- **Environmental Impact Studies:** Studies on the effects of climate change on plant biodiversity.

The students actively engaged with the visitors, explaining their research findings and answering questions related to their projects.

Conclusion:

The National Science Day celebrations at TTWRDC Dhammapeta successfully highlighted the vital role of science in society, with particular emphasis on the contributions of women in the field of botany. The event was a wonderful opportunity to promote scientific inquiry, foster curiosity among students, and inspire the next generation of scientists.

DEPARTMENT OF BOTANY ACTIVITIES

ACADAMIC YEAR -2020-2021

WORLD EARTH DAY

Date:22-04-2021

Location: Telangana Tribal Welfare Residential Degree College (TTWRDC), Dhammapeta

Introduction:

World Earth Day, celebrated globally on April 22 every year, is an occasion to raise awareness about environmental issues and promote actions to protect the planet. This year, the Telangana Tribal Welfare Residential Degree College (TTWRDC) in Dhammapeta observed Earth Day with a series of impactful events aimed at educating students, faculty, and the local community about environmental conservation.

Objectives of the Event:

The primary objectives of the World Earth Day celebration at TTWRDC, Dhammapeta, were:

- To raise awareness about climate change, pollution, and biodiversity loss.
- To encourage the adoption of eco-friendly practices among students and local communities.
- To inspire students to take active roles in environmental conservation efforts.



Key Messages and Takeaways:

- **Sustainability:** The need to shift towards a more sustainable way of living, both in urban and rural areas.
- **Climate Action:** Urgent action to combat climate change, including reducing carbon footprints and adopting renewable energy sources.
- **Biodiversity Conservation:** Protecting the planet's diverse species and ecosystems is vital to maintaining ecological balance.
- **Individual Responsibility:** Every individual plays a crucial role in preserving the environment by adopting eco-friendly habits.

DEPARTMENT OF BOTANY ACTIVITIES

ACADAMIC YEAR -2021-2022

WORLD OZONE DAY

Date of Celebration: 16-09-2021

Venue: Department of Botany, TTWRDC Dhammapeta

Organized by: Department of Botany, TTWRDC Dhammapeta

Introduction:

World Ozone Day is celebrated globally on September 16 each year to raise awareness about the importance of the ozone layer and its protection layer by phasing out the use of ozone-depleting substances. The Department of Botany at TTWRDC Dhammapeta celebrated this significant day with various activities aimed at increasing environmental awareness, particularly focusing on the relationship between the ozone layer and plant life.

Objective:

The primary objectives of the celebration were:

1. To raise awareness about the role of the ozone layer in protecting life on Earth, including its impact on plant growth and biodiversity.
2. To educate students and staff about the Montreal Protocol and its role in the recovery of the ozone layer.
3. To engage students in discussions and activities related to environmental conservation and sustainable practices.

Student Presentation:

A group of students from the Department of Botany presented a series of slides and videos illustrating the history of the Montreal Protocol and its success in reducing the production of ozone-depleting chemicals. They also discussed the ongoing efforts to repair the ozone layer and the importance of continued vigilance and global cooperation.

Tree Plantation Drive:

As a part of the celebration, the Department of Botany organized a tree plantation drive on the college campus. Students and faculty members planted saplings of native tree species to promote environmental conservation and enhance green cover. The activity symbolized the department's commitment to environmental protection, contributing to the restoration of biodiversity and supporting efforts to mitigate the effects of ozone depletion.

Outcomes:

The celebration of World Ozone Day at TTWRDC Dhammapeta was successful in raising awareness about the importance of ozone protection. Key outcomes included:

1. Increased awareness among students and staff about the impact of ozone depletion on both human health and plant life.
2. Greater understanding of the role of the Montreal Protocol in reducing the use of harmful chemicals that deplete the ozone layer.

3. Active participation of students in environmental conservation activities such as tree planting and the ozone awareness rally.
4. Creation of informative and creative materials, including posters and slogans, that further disseminated the message of ozone protection.
5. Positive media coverage of the event, which further amplified the message beyond the campus community.



Conclusion:

The World Ozone Day celebration at the Department of Botany, TTWRDC Dhammapeta, was a memorable and impactful event. It successfully brought attention to the significance of protecting the ozone layer, its vital role in sustaining life on Earth, and the need for continued global efforts to ensure its recovery. The event not only educated students and faculty about ozone depletion but also encouraged active participation in environmental sustainability practices. The Department of Botany remains committed to fostering a deeper understanding of environmental issues and continuing to engage the community in meaningful conservation activities.

QUIZ COMPETITION

Date: 06-01-2022

Topic: Biodiversity and Conservation

Event: Quiz Competition

Organized by: Department of Botany

Venue: Ttwrdc , Dhammapeta

Introduction

The Department of Botany, in collaboration with TERDC (Tribal Educational and Rural Development Centre), Dhammapeta, conducted a quiz competition on the critical topic of **Biodiversity and Conservation**. The event aimed to raise awareness and encourage students and the local community to engage with the pressing environmental issues related to biodiversity and conservation.

Objectives of the Quiz Competition

1. **Promote Awareness:** To enhance participants' understanding of biodiversity, its importance, and the challenges facing ecosystems today.
2. **Encourage Environmental Education:** To foster a deeper interest in environmental studies and conservation practices.
3. **Engage the Community:** To provide an interactive and educational platform for students, faculty, and the local community.
4. **Encourage Critical Thinking:** To challenge participants to think critically about environmental issues and possible solutions.

Participants

The quiz competition was open to students from various educational levels, with a particular focus on school and college students from the surrounding area. A total of [insert number] participants took part in the event, forming teams of [insert number] participants each. The event was structured to accommodate different age groups and levels of understanding, ensuring inclusivity and wide participation.



Topics Covered

The quiz focused on a range of topics related to **biodiversity and conservation**, including:

- The **importance of biodiversity** and its role in maintaining ecosystem balance.
- The **threats to biodiversity**, including deforestation, climate change, habitat destruction, and pollution.
- **Conservation strategies**, both global (e.g., international treaties, wildlife protection) and local (e.g., conservation programs in the region).
- **Endangered species** in the local area, as well as globally.
- The role of **protected areas**, such as national parks and wildlife sanctuaries, in conserving biodiversity.
- The concept of **sustainable development** and how it can contribute to conservation efforts.

Conclusion

The quiz competition on biodiversity and conservation was a huge success, not only in terms of participation but also in fostering awareness about environmental issues. It was a great platform for students and the community to learn more about the importance of biodiversity and how they can contribute to conservation efforts in their daily lives. The event also highlighted the significant role educational institutions play in spreading environmental knowledge and inspiring action for the protection of our planet.

NATIONAL SCIENCE DAY

Date: 28-02-2022

Venue: Department of Botany, TTWRDC Dhammapeta

Occasion: National Science Day 2024

Introduction:

National Science Day is celebrated every year on February 28th in India to honor the discovery of the Raman Effect by the renowned physicist Sir C.V. Raman. The day is an opportunity to promote scientific knowledge, innovation, and the importance of science in our daily lives. This year, the Department of Botany at TTWRDC (Telangana Tribal Welfare Residential Degree College) Dhammapeta celebrated National Science Day with a series of events designed to engage students and faculty in scientific discussions, activities, and awareness about the significance of science in the field of botany and beyond.

Objectives of the Celebration:

1. To promote scientific thinking and awareness among students.
2. To encourage interest in research and development in the field of botany and related sciences.
3. To commemorate the contributions of Sir C.V. Raman to the world of science.
4. To recognize the importance of science in addressing environmental and societal challenges.



5.

Poster Presentation Competition:

A poster presentation competition was organized, where students from the Department of Botany showcased their research work and scientific projects related to various aspects of botany. Topics ranged from plant pathology and medicinal plants to biodiversity conservation and agroforestry.

The posters were evaluated by a panel of judges comprising senior faculty members, and the top three posters were awarded prizes. The event provided students with an opportunity to develop their research and presentation skills while gaining recognition for their scientific efforts.

Conclusion :

The National Science Day celebration at TTWRDC Dhammapeta concluded with a vote of thanks delivered by Department of Botany. She thanked the chief guest, participants, faculty members, and students for their active participation in the event and for making the day a success.

GROUP DISCUSSION

Date and Time: 04-03-2022

Venue: Department of Botany, TTWRDC Dhammapeta

Duration: 2 hours

Participants: Students of the Botany department, faculty members, and guest speakers.

Moderator: Dr. [Insert Name], Head of the Department of Botany

Guest Speaker:J.Vijaya laxmi

Introduction:

The Department of Botany at TTWRDC (Telangana Tribal Welfare Residential Degree College) Dhammapeta conducted an informative group discussion on the topic "Life Cycle of Flowering Plants." The session aimed to enhance students' understanding of the biological processes involved in the life cycle of flowering plants, covering important stages such as germination, growth, flowering, and seed dispersal. The event was designed to foster collaborative learning and encourage participants to engage in scientific discussions. It provided a platform for students to share their thoughts, ask questions, and deepen their knowledge on the topic.

Objective of the Discussion

The main objectives of the group discussion were:

- To understand the stages involved in the life cycle of flowering plants.
- To promote awareness about the various factors influencing plant growth and reproduction.
- To encourage students to share insights and enhance their knowledge on plant biology.
- To develop communication skills in a scientific context.



Discussion Overview

The discussion began with a brief introduction to the life cycle of flowering plants, led by the faculty moderator. The students were then divided into smaller groups to discuss different phases of the plant life cycle, including:

1. **Seed Germination:**
 - The first stage involves the seed absorbing water, breaking dormancy, and sprouting. Factors such as temperature, moisture, and light play a crucial role in germination. The students discussed different types of seed germination (epigeal and hypogeal) and their significance in the survival of plants.
2. **Vegetative Growth:**
 - The second phase involves the growth of roots, stems, and leaves. The group discussed how plants obtain nutrients and water from the soil and convert them into energy through photosynthesis. They also highlighted the importance of this phase for the establishment of the plant.
3. **Flowering:**
 - The flowering phase was explored in-depth. Students discussed the role of pollination, with a focus on different mechanisms such as insect pollination, wind pollination, and self-pollination. The discussion also touched on the factors that influence flowering, such as light cycles (photoperiod) and temperature.

Conclusion

The group discussion on the life cycle of flowering plants was a successful academic activity that promoted active learning and engagement among students. It allowed participants to delve into various biological processes and their relevance in the natural world. The event also fostered critical thinking and communication skills as students exchanged ideas and discussed their understanding of the topic.

The Department of Botany plans to continue such discussions in the future to further enhance the knowledge of students and provide them with a deeper understanding of plant biology.

NATIONAL FARMERS DAY

Date of Event: 23-12-2022

Location: TTWRDC Dhammapeta, Telangana

Introduction:

National Farmers' Day, also known as "Kisan Diwas," is celebrated every year on December 23rd to honor the contributions of farmers to the nation's economy and development. The day marks the birth anniversary of Chaudhary Charan Singh, the fifth Prime Minister of India, who was a prominent advocate for the welfare of farmers. This year, the Department of Botany at TTWRDC Dhammapeta organized a special event to celebrate National Farmers' Day, with a focus on recognizing the importance of sustainable agriculture and honoring local farmers for their significant role in ensuring food security.

Objectives of the Event:

The primary objectives of the event were:

1. To celebrate and acknowledge the crucial role of farmers in India's agricultural economy.
2. To promote awareness about sustainable farming practices and the role of botany in improving agricultural productivity.
3. To provide a platform for students, faculty, and farmers to exchange knowledge and ideas on modern farming techniques and environmental conservation.
4. To honor the memory of Chaudhary Charan Singh and his contributions to agrarian reforms.



5.

Activities and Presentations:

1. **Panel Discussion on Sustainable Agriculture:** A panel discussion was organized, featuring a mix of academic experts, farmers, and agronomists. The panel discussed key issues like water conservation, organic farming, and the future of agriculture in Telangana. Local farmers shared their experiences and challenges, while academics offered solutions based on scientific research. The discussion fostered a sense of community and mutual respect between the academic and farming sectors.
2. **Student Presentations:** Students from the Department of Botany presented research findings on various topics, such as plant diseases, crop improvement techniques, and bio-fertilizers. These presentations were an opportunity for students to demonstrate how the scientific knowledge they are gaining can be directly applied to solving real-world problems faced by farmers.

Conclusion :

The event concluded with closing remarks Department of Botany. He expressed gratitude to all participants, including the local farmers, students, faculty, and guests. He reiterated the department's commitment to continuing research that supports sustainable agricultural practices and the welfare of farmers.

NATIONAL SCIENCE DAY

Date: 28-12-2022

Venue: TTWRDC Dhammapeta

Organized by: TTWRDC (Telangana Tribal Welfare Residential Degree College) Dhammapeta

Introduction:

National Science Day is celebrated every year on February 28 to commemorate the discovery of the Raman Effect by Indian physicist C.V. Raman in 1928. This day aims to honor the contribution of science to society and to inspire students and researchers to pursue scientific advancements. The National Science Day celebration at TTWRDC Dhammapeta was organized with the objective of promoting scientific temper, awareness, and interest among students, staff, and the local community.

- **Physics Experiment Corner:** A series of demonstrations on topics like electricity, magnetism, and optics, including the working of a simple electric motor and a model of the solar system.
- **Chemistry Innovations:** Students displayed models related to chemical reactions, renewable energy, and the role of chemistry in daily life.
- **Environmental Science Projects:** A series of projects focusing on sustainable living, pollution control, and renewable energy sources such as solar panels and wind turbines.
- **Biotechnology Models:** Models demonstrating genetic engineering, stem cell research, and the role of biotechnology in healthcare and agriculture.



Conclusion:

The National Science Day celebration at TTWRDC Dhammapeta was a vibrant and informative event, filled with inspiring talks, hands-on activities, and competitions. It successfully brought attention to the critical role that science plays in our daily lives and emphasized the need for continuous scientific research and development to address global challenges. The event left students and participants with a renewed sense of enthusiasm and curiosity about the world of science and innovation.

DEPARTMENT OF BOTANY ACTIVITIES

ACADAMIC YEAR -2022-2023

WORLD WILD LIFE DAY

Date of Celebration:03-03-2023

Venue: TTWRDC Dhammapeta, Telangana

Introduction:

World Wildlife Day, celebrated globally on March 3rd, marks the importance of wildlife conservation and raises awareness about the threats faced by wildlife species. This year, the Telangana Tribal Welfare Residential Degree College (TTWRDC) at Dhammapeta joined hands with local environmental organizations to observe the occasion with a series of educational and interactive activities aimed at promoting environmental conservation and awareness among students and the community.

Objectives of the Celebration:

- To raise awareness about the importance of protecting wildlife and natural habitats.
- To foster a sense of responsibility and commitment among the youth towards wildlife conservation.
- To engage local communities, especially students, in meaningful discussions about biodiversity and conservation strategies.
- To showcase the role of tribal communities in preserving wildlife and sustainable environmental practices.

The students were encouraged to actively participate by asking questions and offering their views on wildlife conservation.



Tree Plantation Drive:

As part of the day's activities, a tree plantation drive was conducted in the campus vicinity. Students, staff, and community members participated by planting native tree species that contribute to habitat restoration and biodiversity conservation. The drive aimed to instill a sense of responsibility for environmental stewardship among the participants.

Conclusion:

The World Wildlife Day celebration at TTWRDC Dhammapeta was an overwhelming success, providing a platform for students and the local community to engage with important issues surrounding wildlife conservation. Through seminars, competitions, and awareness campaigns, the event not only educated the attendees but also instilled a sense of responsibility towards protecting the planet's rich biodiversity.

World earth day

Date of Celebration: 22-04-2023

Venue: TTWRDC Dhammapeta, Telangana

The World Earth Day celebration at the **Telangana Tribal Welfare Residential Degree College (TTWRDC) in Dhammapeta** was an inspiring event aimed at raising environmental awareness and encouraging sustainable practices among students, faculty, and the local community emphasizing the need for urgent action to combat climate change and protect natural ecosystems.

Objectives of the Event:

1. To educate students and local communities about the significance of Earth Day.
2. To promote environmental conservation and sustainability initiatives.
3. To engage students in activities that encourage environmental stewardship.
4. To collaborate with local environmental organizations and activists to strengthen community involvement.

Impact and Outcomes:

Environmental Awareness:

The event successfully raised awareness about the urgent need for environmental protection and highlighted sustainable practices that can be implemented at the individual, community, and institutional levels.

Community Engagement:

The rally, tree plantation drive, and cultural programs fostered a sense of collective responsibility towards the environment among students and the local community.

Student Participation:

The active involvement of students in the workshops, competitions, and awareness campaigns demonstrated their commitment to becoming agents of change for environmental conservation.



Conclusion:

The World Earth Day celebration at TTWRDC Dhammapeta was a highly successful event that effectively combined education, activism, and community engagement. It not only raised awareness about environmental issues but also encouraged actionable steps for the future. The students, faculty, and local community members left with a renewed sense of commitment to preserving the planet for future generations. It was a day that truly embodied the spirit of Earth Day — a reminder of the collective responsibility we all share in safeguarding the Earth's natural resources.

QUIZ COMPETITION

Date of Event: 05-10-2023

Venue: TTWRDC, Dhammapeta

Organized by: Department of Botany, TTWRDC Dhammapeta

Type of Event: Quiz Competition

Introduction

The Department of Botany at TTWRDC Dhammapeta organized a quiz competition aimed at testing the knowledge and awareness of students regarding various aspects of botany and general science. The event was held with the objective of encouraging a deeper interest in the subject, enhancing students' understanding of plant science, and fostering healthy competition.

The quiz was designed to cover a wide range of topics including plant physiology, taxonomy, ecology, genetics, and current developments in the field of botany. The event saw enthusiastic participation from students across different years, showcasing their passion and knowledge.



Purpose and Objectives

The primary objectives of the quiz competition were:

1. To provide an engaging platform for students to test their knowledge of botany.
2. To encourage teamwork and collaborative learning among students.
3. To promote awareness of current trends and research in the field of botany.
4. To foster a sense of healthy competition that will motivate students to enhance their academic performance.

Conclusion

The quiz competition was a great success, providing a stimulating and competitive environment for students to showcase their knowledge of botany. It encouraged students to broaden their understanding of plant sciences, engage in active learning, and apply their theoretical knowledge to practical scenarios. The event was not only informative but also an enjoyable experience for all involved.

The Department of Botany plans to organize more such events in the future to continue fostering academic excellence and enthusiasm among students.

GROUP DISCUSSION

- **Date:** 07-11-2023
- **Event Title:** Group Discussion on Tissue Culture
- **Organized By:** Department of Botany
- **Venue:** TTWRDC, Dhammapeta
- **Participants:** Students and Faculty of the Department of Botany

Introduction

The Department of Botany organized a group discussion on the topic of **Tissue Culture** at the Telangana Tribal Welfare Residential Degree College (TTWRDC) in Dhammapeta. The event aimed to enhance understanding and encourage a critical dialogue among students and faculty members regarding the applications, benefits, and challenges of tissue culture in modern botanical research and agriculture.

Objective of the Discussion

The primary objective of the group discussion was to:

- Provide insights into the process of tissue culture and its significance in botany.
- Discuss various types of tissue culture techniques, including micropropagation, somatic embryogenesis, and callus culture.
- Examine the potential applications of tissue culture in plant breeding, conservation, and agriculture.

- Address the challenges and ethical concerns associated with tissue culture, such as contamination, genetic modification, and sustainability.



Structure of the Discussion

The session began with a brief introduction to tissue culture by the facilitator. Participants were then divided into smaller groups to discuss different aspects of tissue culture. Each group was assigned a specific sub-topic to explore in detail. The following key themes were addressed during the discussion:

Introduction to Tissue Culture:

- A definition of tissue culture and its importance in plant biotechnology.

- Overview of the laboratory techniques used in tissue culture, including sterilization, media preparation, and incubation.

Applications of Tissue Culture:

- **Micropropagation:** The use of tissue culture to rapidly propagate plants, including economically important crops and endangered species.
- **Somatic Embryogenesis:** The process of developing embryos from somatic (non-reproductive) cells, leading to the regeneration of entire plants.
- **Genetic Transformation and Cloning:** The potential for creating genetically modified plants or clones with desirable traits using tissue culture techniques.

Future Prospects:

- The group discussed the future of tissue culture in agricultural biotechnology, including its role in addressing food security, sustainable agriculture, and conservation of plant diversity.
- Participants also explored potential innovations, such as the use of tissue culture for creating disease-resistant plants and enhancing crop yields.

Conclusion of the Discussion:

The group discussion concluded with a synthesis of ideas and reflections on the various topics covered. Participants recognized the tremendous potential of tissue culture to contribute to advancements in plant biotechnology and agriculture. However, they also acknowledged the technical and ethical challenges that need to be addressed for its broader adoption.

The session ended with a call to action for further research and collaboration among academic institutions, industry experts, and government bodies to overcome these challenges and fully harness the power of tissue culture.

DEPARTMENT OF BOTANY ACTIVITIES

ACADAMIC YEAR -2023-2024

WORLD OZONE DAY

Date: 16-09-2023

Venue: TTWRDC Dhammapeta

Organized by: Telangana Tribal Welfare Residential Degree College (TTWRDC), Dhammapeta

Introduction:

World Ozone Day, also known as the International Day for the Preservation of the Ozone Layer, was celebrated on September 16 at the Telangana Tribal Welfare Residential Degree College (TTWRDC) in Dhammapeta. This day is commemorated globally to raise awareness about the importance of protecting the ozone layer, which shields the Earth from harmful ultraviolet radiation. The event was aimed at educating students, staff, and the community on the significance of the ozone layer and the need for global efforts to preserve it.

Objectives of the Event

- To raise awareness about the importance of the ozone layer and its role in protecting life on Earth.
- To educate participants on the Montreal Protocol and its success in reducing the use of ozone-depleting substances.
- To engage students in activities that promote environmental conservation.
- To emphasize the role of every individual in reducing the usage of chemicals that harm the ozone layer.



Pledge Ceremony:

At the conclusion of the event, all attendees took a pledge to protect the ozone layer and to reduce the use of ozone-depleting substances in their daily lives. The pledge was a symbolic gesture to reinforce the commitment towards environmental protection.

Conclusion:

The celebration of World Ozone Day at TTWRDC Dhammapeta was a successful and engaging event that raised awareness about the importance of the ozone layer and the need for collective action to preserve it. The students, staff, and community members left the event with a renewed commitment to environmental conservation.

NATIONAL SCIENCE DAY

Date: 28-02- 2024

Venue: Department of Botany, Dhammapeta College

Event: National Science Day Celebrations

Introduction:

National Science Day is celebrated every year on February 28th to honor the discovery of the Raman Effect by Indian scientist Sir C. V. Raman. The day is dedicated to the promotion of scientific temper and awareness among students, teachers, and the general public. This year, the Department of Botany at Dhammapeta College organized an event in commemoration of National Science Day, focusing on spreading scientific knowledge, particularly related to the field of Botany and its relevance in modern science.

Conclusion:

The National Science Day celebrations at the Department of Botany, Dhammapeta College, were a great success. It provided a platform for students and faculty to come together and explore the vital role of Botany in addressing environmental challenges. The event also promoted a sense of scientific inquiry and helped cultivate a deeper understanding of the importance of plants in our daily lives and ecosystems.





Through lectures, workshops, exhibitions, and hands-on activities, the participants not only gained valuable knowledge but were also inspired to take actionable steps toward environmental conservation. The plantation drive, in particular, reinforced the idea that science should not remain confined to theory but must be put into practice to foster a sustainable future.

The Department of Botany at Dhammapeta College plans to continue celebrating National Science Day each year with the aim of inspiring future generations to engage with science and contribute to solving the world's pressing environmental issues.

GROUP DISCUSSION

Introduction

A group discussion on the topic of **Embryology in Plants** was conducted by the Department of Botany at **Telangana Tribal Welfare Residential Degree College (TTWRDC)**, Dhammapeta. The session aimed to engage students in an interactive and insightful conversation about the significance of embryology in the plant kingdom, its role in reproduction, and the various stages of plant development. The event was organized as part of the department's initiative to encourage deeper understanding of plant biology through active participation and knowledge exchange.

Objectives of the Discussion

- To enhance the students' understanding of plant embryology.
- To discuss the various stages of embryo development in plants.
- To explore the practical applications of plant embryology in agriculture and biotechnology.
- To foster an environment of collaborative learning and critical thinking among students.

Challenges and Future Directions

- The participants raised questions about the limitations and challenges faced in plant embryology, such as the difficulties in growing certain plants from seeds and the challenges posed by environmental factors.
- Some students also suggested future research areas like exploring the role of hormones in embryonic development and understanding the molecular mechanisms behind seed dormancy.



conclusion

The group discussion on plant embryology at TTWRDC Dhammapeta was an enriching experience for all involved. It provided students with a deeper understanding of the complex processes of plant reproduction and development. The session encouraged students to think critically about how embryological knowledge can be applied in various fields, including agriculture, biotechnology, and conservation.

The event successfully created a platform for exchanging ideas and learning from peers and experts. The department of Botany plans to continue such discussions regularly to promote scientific inquiry and enhance the academic environment for students.

WORLD EARTH DAY

Date: 22-04- 2024

Location: TTWRDC Dhammapeta, Telangana

Introduction:

World Earth Day is a global event celebrated annually on April 22 to promote environmental awareness and encourage the protection of our planet. It serves as a reminder of the critical importance of taking action to preserve natural resources, combat climate change, and ensure a sustainable future. The Department of Botany at TTWRDC (Telangana Tribal Welfare Residential Degree College) Dhammapeta took part in this significant event with a series of educational and environmental activities aimed at inspiring students and the community to engage with environmental issues.

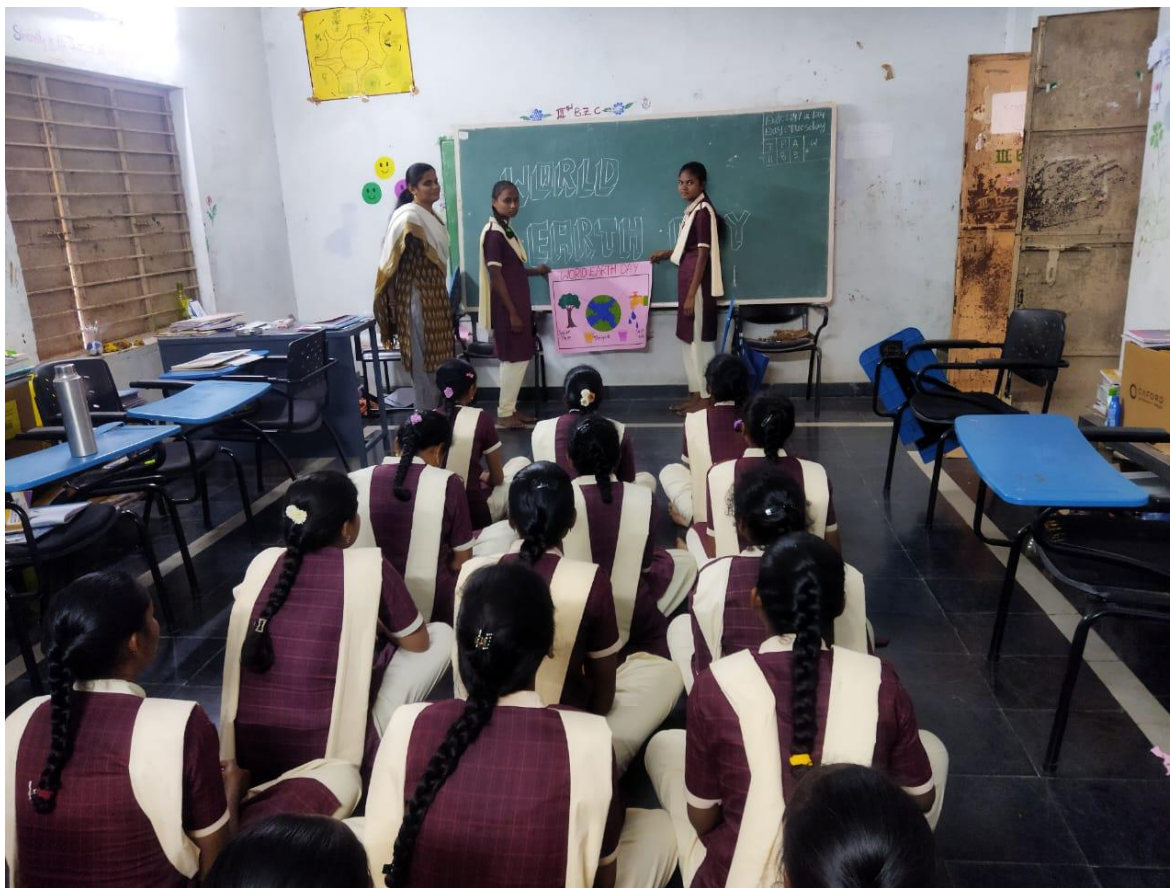
Objective of the Event:

The primary goal of the World Earth Day celebrations was to:

- Raise awareness about environmental challenges and the importance of conservation.
- Educate students on the role of plants and trees in maintaining ecological balance.
- Promote sustainable practices within the campus and the community.
- Foster a sense of responsibility towards the environment among students and faculty.

Green Campus Initiative:

The Department of Botany also introduced a "Green Campus" initiative, where students and faculty pledged to reduce plastic usage, promote waste segregation, and conserve water. A clean-up drive was organized around the campus to encourage waste management and cleanliness as part of the broader effort to maintain a sustainable environment.



Environmental Awareness:

The plantation drive and workshops fostered a deeper understanding of environmental issues among students. The educational activities helped instill the importance of conservation, not just theoretically, but also in practical terms, by involving students in hands-on activities like tree planting and waste management.

Conclusion:

The World Earth Day celebration by the Department of Botany at TTWRDC Dhammapeta was a successful event that effectively raised awareness about environmental issues and engaged the campus community in positive actions towards conservation. It highlighted the importance of plants in our ecosystem and the need to protect natural resources for future generations. The activities carried out were a reminder that everyone has a role to play in ensuring the health and sustainability of our planet. The event also laid the foundation for future initiatives aimed at fostering environmental consciousness within the college and the surrounding community.

CANCER AWARENESS DAY

Date: 07-11-2024

Location: TTWRDC Dhammapeta

Organized By: Department of Botany

Theme: "Raising Awareness and Preventing Cancer"

Introduction:

Cancer Awareness Day, an event dedicated to educating the public about cancer prevention, early detection, and treatment options, was celebrated with great enthusiasm at the TTWRDC (Telangana Tribal Welfare Residential Degree College) in Dhammapeta. Organized by the Department of Botany, the event aimed to raise awareness about cancer, its risk factors, and the critical role of early diagnosis in saving lives.





Objective of the Event:

The primary objective of this event was to:

1. Educate students, faculty, and the community about cancer prevention and early detection.
2. Encourage healthy lifestyles to reduce cancer risk.
3. Provide information on how botanical research contributes to cancer treatment and prevention.
4. Inspire students to engage in scientific research related to cancer and health.

Awareness Campaigns and Posters:

The students of the Department of Botany actively participated in creating informative posters and awareness pamphlets on cancer prevention, highlighting the significance of regular health check-ups, maintaining a healthy lifestyle, and the importance of self-examination.

Conclusion:

The Cancer Awareness Day celebrated at TTWRDC Dhammapeta was a resounding success in achieving its goal of educating the community about cancer prevention and treatment. The event not only raised awareness but also encouraged the participants to actively engage in healthy practices and seek medical advice when needed. The involvement of the Department of Botany in showcasing the role of medicinal plants in cancer research further highlighted the contribution of scientific studies to modern cancer treatments.

WORLD SCIENCE DAY

Event Title: World Science Day Celebration

Date: November 10, 2024

Venue: Department of Botany, (TTWRDC), Dammapeta

Introduction:

World Science Day for Peace and Development is celebrated globally on November 10 each year to highlight the crucial role of science in society and to emphasize the importance of scientific literacy in addressing the challenges faced by humanity. The Department of Botany at TTWRDC Dammapeta observed this day with a series of events aimed at raising awareness about the importance of science, particularly in the field of botany and environmental sustainability.

Objective of the Event:

The primary objective of this event was to engage students, faculty, and the local community in discussions about the role of science in development and peace. The celebration aimed to inspire students to pursue scientific research and contribute to the protection of biodiversity, environmental conservation, and sustainable practices.

Event Highlights:

- Inaugural Ceremony:** The event began with a formal inauguration by the Principal of TTWRDC, Dammapeta, Dr. S. Narasimhulu, who emphasized the importance of scientific knowledge in modern-day society. He stressed that science is not just a tool for academic growth but also a crucial element in solving global problems, especially those related to environmental sustainability and climate change.
- Poster Presentation:** Students from the Department of Botany participated in a poster presentation competition. The themes for the posters included:
 - Biodiversity Conservation**
 - Role of Plants in Climate Change Mitigation**
 - Sustainable Agricultural Practices**
 - Medicinal Plants and Their Uses**

The posters showcased the innovative ideas and scientific research conducted by the students. The event was a great platform for students to exhibit their knowledge and creativity while discussing the relevance of botany in contemporary global challenges.

3. **Tree Plantation Drive:** As part of the celebration, the Department of Botany organized a tree plantation drive in the college campus. Students, along with faculty members, planted saplings of indigenous tree species. This activity aimed to promote environmental conservation and instill a sense of responsibility towards nature among the students.
4. **Interactive Session on "Science for Peace and Development":** An interactive session was conducted, where students and faculty discussed how science can contribute to peace and sustainable development. The session focused on the United Nations' goals for sustainable development and how scientific innovation and research can address global challenges such as food security, clean energy, and environmental protection.



5.



Key Takeaways:

- The importance of scientific research in the fields of botany and environmental science was emphasized throughout the event.
- Students gained deeper insights into the practical applications of botany in conservation, agriculture, and healthcare.
- The tree plantation drive underscored the significance of local actions in addressing global environmental issues.
- The quiz and poster presentation provided a platform for students to express their scientific knowledge and creativity.
- The event fostered a sense of community and collaboration among students, faculty, and the local community in the pursuit of scientific development for a sustainable future.

Conclusion:

The celebration of World Science Day at TTWRDC Dammapeta was a resounding success, with active participation from both students and faculty. The event highlighted the significance of science in daily life and its potential to drive positive change in society. The Department of Botany at TTWRDC continues to inspire students to explore the world of science and its many possibilities, particularly in the fields of plant sciences and environmental sustainability.

AIDS DAY

Date:01-12-2024

Location: TTWRDC Dammapeta

Organized by: Department of Botany, TTWRDC

Event: Aides Day Celebration

World AIDS Day 2024 theme is: Take the Rights Path: My Health, My Right!

Introduction:

The Department of Botany at the TTW RDC Dammapeta organized a special celebration for Aides Day to acknowledge the invaluable contributions of its staff and helpers who play a pivotal role in maintaining the smooth functioning of academic and administrative tasks. Aides Day is celebrated annually as a token of appreciation for the dedicated service rendered by non-teaching staff, including lab assistants, gardeners, cleaners, and other essential personnel.

Objectives:

The main objectives of the Aides Day Celebration were:

1. **Acknowledgment and Gratitude:** To recognize the hard work, dedication, and support provided by the non-teaching staff of the Botany Department.
2. **Fostering a Sense of Community:** To strengthen the bond between teaching staff, students, and non-teaching staff, and promote a sense of camaraderie and mutual respect.
3. **Promoting Teamwork:** To emphasize the importance of teamwork and collaboration in the educational and research environment



Gummadivalli, Telangana, India



Gummadivalli, Telangana, India



Gummadivalli, Telangana, India

4.

Event Highlights:

1. **Inaugural Session:** The event commenced with an opening address by the Head of the Department of Botany, Dr. [Name], who expressed gratitude towards the staff members who contribute selflessly to the smooth running of the department. The importance of their roles was highlighted, emphasizing how their work makes a significant difference in the academic environment.
2. **Award Ceremony:** An award ceremony was held to honor outstanding aides for their exceptional service. Categories of awards included:
 - Best Lab Assistant of the Year
 - Most Dedicated Gardener
 - Best Cleaner and Support Staff
 - Special Recognition for Long-Term ServiceThe awards were presented by the Head of the Department along with the chief guest, followed by photo sessions.
3. **Interactive Session:** A short interactive session was held where aides shared their experiences working in the department. This helped in fostering open communication and a sense of belonging among all members of the department.

Conclusion:

The Aides Day Celebration at TTW RDC Dammapeta was a resounding success, meeting its objectives of fostering goodwill, strengthening relationships, and recognizing the invaluable contributions of non-teaching staff. Such events not only enhance the sense of belonging within the department but also promote a culture of respect and mutual appreciation, essential for the smooth functioning of any institution. The Botany Department plans to continue this tradition and expand the celebrations in future years.

FARMER'S DAY

Organized by: Department of Botany,
TTWRDC, Dammapeta

Date: 23-12-2024

The theme for Kisan Diwas is :“Empowering ‘Annadatas’ for a Prosperous Nation.”

1. Introduction

Farmers' Day, also known as **Kisan Divas**, is celebrated annually to honor the contributions of farmers to the nation's agricultural and economic development. The Department of Botany at **TTWRDC Dammapeta** organized a special event on this occasion to recognize the role of farmers and promote sustainable agricultural practices. This report highlights the key aspects of the celebration, including the activities conducted, the significance of the event, and the feedback from participants.

2. Objective of the Celebration

The primary objectives of celebrating Farmers' Day were:

- **Recognizing the role of farmers** in the economy and their importance in ensuring food security.
- **Promoting awareness** about modern and sustainable agricultural practices.
- **Encouraging dialogue** between the academic community and local farmers to enhance mutual learning.
- **Fostering a greater appreciation** for botany and its role in enhancing agricultural productivity.

3. Event Highlights

Inauguration Ceremony

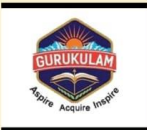
The event began with a formal **inauguration ceremony**, which was attended by faculty members, students, and local farmers. The Chief Guest, [Insert Name and Designation of Chief Guest], delivered an inspiring speech emphasizing the importance of farmers in the community and the need for advancements in agricultural science and technology.

Panel Discussion

A **panel discussion** followed, featuring faculty members, researchers, and local farmers. The discussion centered on the current challenges faced by farmers in the region, including climate change, water scarcity, and pest control. Various solutions, such as organic farming, crop rotation, and the role of biotechnology, were explored.



TGTWRDC (G) DAMMAPETA

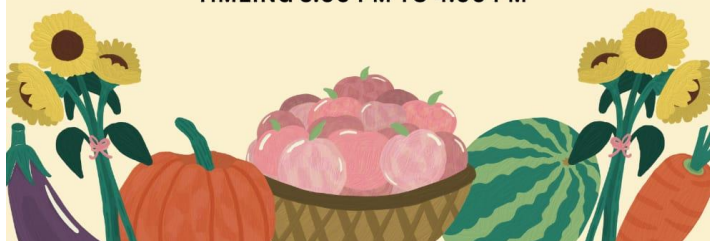


DEPARTMENT OF BOTANY

NATIONAL FARMER'S DAY



DEPARTMENT OF BOTANY
CELEBRATION FARMERS DAY
VENUE : TGTWRDC (G)
DAMMAPETA
TIMEING 3.00 PM TO 4.00 PM

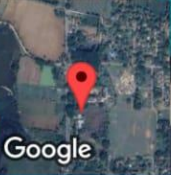


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Lat 17.416175° Long 81.178126°
23/12/24 03:31 PM GMT +05:30

GPS Map Camera



Gummadivalli, Telangana, India
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Demonstration of Agricultural Techniques

The Department of Botany also conducted a **live demonstration** showcasing new agricultural techniques. Students and faculty demonstrated how various sustainable farming practices can be implemented in local farms. This hands-on activity allowed farmers to see the practical applications of modern agricultural research in their own context.

4. Outcome of the Event

The Farmers' Day celebration was highly successful and achieved its objectives:

- **Increased Awareness:** The event helped raise awareness about modern agricultural practices and their relevance in local farming.
- **Networking Opportunities:** It created a platform for farmers and the academic community to exchange knowledge and ideas.
- **Enhanced Collaboration:** It encouraged collaboration between farmers, educators, and researchers to tackle agricultural challenges.
- **Recognition of Farmers:** The event served as a reminder of the invaluable contributions made by farmers in sustaining food production.

5. Feedback from Participants

Feedback collected from the participants showed a positive response to the event. The farmers appreciated the informative sessions and practical demonstrations, while students and faculty found the event to be a valuable learning experience. Many participants expressed interest in continuing dialogue and collaboration in the future.

6. Conclusion

The Farmers' Day celebration organized by the Department of Botany at TTWRDC Dammamapeta was a significant event that strengthened the bond between the academic community and the local farming community. By recognizing the importance of farmers and promoting sustainable agricultural practices, the event contributed to creating a more informed and collaborative agricultural environment.

The success of the event highlights the potential for continued educational outreach and partnerships between academic institutions and the farming community, paving the way for a more sustainable and productive agricultural future.

NATIONAL SCIENCE DAY

Date: 28-02-2025

Venue: TGTWDC Dammampeta

Introduction:

National Science Day is celebrated every year on February 28th in India to honor the discovery of the Raman Effect by the renowned physicist Dr. C.V. Raman. This day is a celebration of scientific achievements and an effort to raise awareness about the importance of science and technology in everyday life. The Department of Botany at TGTWDC Dammampeta Degree College organized a series of events to mark this significant occasion, encouraging students to engage with science in a meaningful way.

Objectives of the Celebration

- To commemorate the contribution of Dr. C.V. Raman and raise awareness about the significance of science.
- To encourage students to engage in scientific discussions and explore various scientific concepts.
- To promote practical knowledge of environmental sustainability and renewable energy sources, especially in the context of solar energy (Photovoltaic technology).
- To showcase student participation and projects that demonstrate the integration of science in real-world applications.

Activities and Events

1. **Student Presentations:** Several students from the Department of Botany presented research papers on various topics, including the application of renewable energy in agriculture, the role of plants in environmental sustainability, and the significance of scientific research in solving global challenges. The students displayed their critical thinking and research skills during these presentations.
 - **Science Quiz:** A quiz competition focusing on scientific discoveries, including the history of the Raman Effect and various branches of science.
 - **Poster Presentation:** Students created posters highlighting the role of renewable energy and its importance in the fight against climate change.
 - **Model Making:** Students displayed models of solar energy systems, plants' role in maintaining ecological balance, and other science-related projects.

Outcome and Impact

The National Science Day celebration was a resounding success, with active participation from both students and faculty members. The event effectively highlighted the importance of science in shaping the future, particularly in the context of environmental conservation and sustainable development.

- **Increased Awareness:** The PV project demonstration increased awareness among students about the significance of solar energy and its potential to revolutionize energy use in India.
- **Scientific Temperament:** Students gained hands-on experience and learned about innovative technologies that could help address environmental issues.
- **Encouragement of Scientific Curiosity:** The various activities, including presentations, competitions, and discussions, fostered a spirit of scientific inquiry among students, encouraging them to think critically and creatively about solving global challenges.

Conclusion

The National Science Day celebration at TGTWDC Dammapeta Degree College, organized by the Department of Botany, was a remarkable event that successfully combined education, innovation, and scientific awareness. Through the PV project demonstration and the array of activities, students were able to experience the practical applications of science and its role in building a sustainable future. The event not only honored Dr. C.V. Raman's legacy but also inspired students to actively engage in scientific exploration and contribute to solving contemporary global issues.



FOREST DAY

- **Date:** March 21, 2025
- **Time:** 10:00 AM – 1:00 PM
- **Venue:** PV Project, TGTW RDC College Campus
- **Organized By:** Department of Botany, TGTW RDC College
- **Audience:** Students, Faculty Members

Event Overview: On March 21, 2025, the Department of Botany at TGTW RDC College celebrated **Forest Day** by organizing an enriching event at the PV Project. The primary objective was to raise awareness about the importance of forests in maintaining ecological balance and to engage students in a meaningful way to highlight the role forests play in sustaining life on Earth. The celebration included a skit performed by the students and a seminar focused on forest conservation and biodiversity.

1. Skit Performance:

The event began with an entertaining yet informative skit presented by the students of the Department of Botany. The skit revolved around the theme of **forest conservation** and the detrimental effects of deforestation on the environment and local communities.

Key Highlights of the Skit:

- **Cast and Performance:** The skit involved a group of enthusiastic students who portrayed various characters, including forest animals, environmental activists, and deforesters. The performance creatively depicted the struggles faced by the forest ecosystem due to human activities, especially illegal logging and urban expansion.
- **Message:** Through humor and drama, the skit conveyed the urgent need for sustainable forest management, protection of biodiversity, and the promotion of eco-friendly practices.

2. Seminar on Forest Conservation:

Following the skit, a seminar was conducted by faculty members and invited experts, focusing on the theme "**Conserving Our Forests for a Sustainable Future.**" The seminar aimed to educate the students and community members about the role of forests in combating climate change, supporting biodiversity, and providing resources for livelihoods.

Key Speakers and Topics:

- **Dr. Priya Sharma (Botany Faculty Member):** She presented a comprehensive overview of the global state of forests, the challenges faced by forest ecosystems, and the critical role of sustainable forest management in combating deforestation.
- **Mr. Ravi Kumar (Environmental Activist):** He shared insights on various forest conservation efforts in India, including afforestation programs, wildlife protection laws, and community-based forest management.

- **Dr. Sandeep Mishra (Botany Faculty Member):** His talk focused on the **importance of biodiversity** in forests and how the loss of forest habitats threatens plant and animal species, leading to an imbalance in ecosystems.

Key Takeaways:

- Forests play a vital role in regulating the Earth's climate and providing essential resources such as oxygen, water, and food.
- Sustainable management practices, such as controlled logging, reforestation, and community involvement in forest management, are crucial to preserving forest ecosystems.
- The seminar also emphasized how students and the community can contribute to conservation efforts by planting trees, reducing paper waste, and supporting local conservation programs.

3. Interactive Sessions and Discussions:

After the seminar, an open discussion was held, where students actively participated and raised questions regarding forest conservation methods, government policies, and how individuals can contribute to protecting the environment. The interactive session fostered a sense of responsibility and urgency towards forest protection among the participants.





4. Conclusion:

The Forest Day celebration at TGTW RDC College was a great success, as it brought together students, faculty, and community members to celebrate the importance of forests and promote environmental awareness. The skit and seminar not only provided knowledge about the significance of forests but also inspired everyone to take active steps in ensuring the protection and preservation of our natural heritage. The Department of Botany's efforts to raise awareness about forest conservation were greatly appreciated, and participants left the event with a renewed commitment to forest sustainability.