

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



Extension Activities Report
Department of Physics



Faculty members

K.Vanisri (HOD)

S.Kavitha

M.Sravanthi

Academic year 2023-24

Science Induction Programme

Activity: science exhibition to all the school level students

Date of the program: 27-02-2024

Objectives of the program:

- To create awareness about the science and new technology trends in the school children.
- Igniting the scientific and innovative thoughts in the students.
- To encourage the students towards new innovations.
- To create interest in the students about science concepts

About the program:

An awareness program on science induction to the school students was conducted on the occasion of National science day to inculcate scientific and innovative thoughts in the students.

For this program Indian Association of Physics Teachers (IAPT) sponsored 10,000 rs for the science activities.

Chief guest DEO, Ramesh Kumar and Guest of honour Ch.Madhusudhan, secretary of IAPT, IQAC co-ordinator, GDC siddipet attended the program and appreciated the students.

We invited nearby school students to this program to create awareness on basic science experiments. Students from Shubodaya high school and zphs high school were attended the program.



Feedback of the students:

1. It will create interest on the science- Mrudhula, 10th class, zphs, Thangallapally
2. This will improve curiosity about science- Swathi, 10th class, shubodaya high school



Orientation program conducted by ISRO on space science (START program)

program name: ISRO START program

Nodal center: TTWRDC (W), Siricilla - K. Vanisri, DL in physics - co-ordinator

Duration of the program: 20-7-2023 to 07-08-2023

Participants: MPCs 2nd and final year students (20 members)

Objectives of the program:

The main objective of the training program is to attract youngsters to the fields of space science and technology.

About the program:

ISRO has conducted the space science and technology awareness training (START) programme, as an awareness programme in space science and technology. The program was conducted in online mode in order to reach out to as many of the space enthusiasts as possible.

Our students MPC 3rd year and 2nd students registered and listened complete online training classes about space science through E- class platform. But due to technical issues students not attempted the examination.

Feedback of the students:

- It was great opportunity to be the part of this training program which was conducted by a prestigious satellite centre ISRO- Divya- MPCs -3rd year
- It was created interest in the field of space science. Now I'm so much curious to know even more about space science - Vinika - MPCs-3rd year



3001- IIRS Outreach Programme on Overview of Space Science and Technology

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Students Record

Show 10 entries Search:

| S.No. | RegNo. | Name | Email ID | Profession | Quali |
|-------|-----------------|-------------------|--------------------------------------|------------|-------|
| 1 | 202330011925637 | loudya akhila | loudyaakhila@gmail.com | Student | P Gr |
| 2 | 202330011931272 | MANTHRI SWATHI | manthriswath2004@gmail.com | Student | P Gr |
| 3 | 202330011925131 | KASTHURI ALEKHYA | alekhykasthuri2005@gmail.com | Student | P Gr |
| 4 | 202330011976857 | malothu thirumala | thirumalamalothuthiru29321@gmail.com | Student | P Gr |
| 5 | 202330011927198 | KUMRA NAGAJYOTHI | chinthapurisamatha9010@gmail.com | Student | P Gr |
| 6 | 202330011927451 | BEEKSULA ASAWIKA | beeskulasawika@gmail.com | Student | P Gr |
| 7 | 202330011961769 | bhukya akhila | akhilabhukyarathod2004@gmail.com | Student | P Gr |

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|-------|-----------------|-----------------------|--------------------------------------|------------|-------|
| 4 | 202330011976857 | malothu thirumala | thirumalamalothuthiru29321@gmail.com | Student | P Gr |
| 5 | 202330011927198 | KUMRA NAGAJYOTHI | chinthapurisamatha9010@gmail.com | Student | P Gr |
| 6 | 202330011927451 | BEEKSULA ASAWIKA | beeskulasawika@gmail.com | Student | P Gr |
| 7 | 202330011961769 | bhukya akhila | akhilabhukyarathod2004@gmail.com | Student | P Gr |
| 8 | 202330011925454 | NARSINGOJU ANJUMALIKA | anjumalikanarsingoju2005@gmail.com | Student | P Gr |
| 9 | 202330011924694 | GUNTI RAVALIKA | gunti.ravalika2005@gmail.com | Student | P Gr |
| 10 | 202330011925461 | BATTU VASANTHA | battuvasantha7@gmail.com | Student | P Gr |

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Students Record

CMS Tutorial

Academic year 2022-23

Orientation on Opportunities for Women Entrepreneurs

By DICCI (Dalit Indian Chamber of Commerce and
Industry)

Date of the program: 15-5-2023

Participants: all years of MPCs students

Location : Seminar hall, TTWRDC(W), Thangallapally, siricilla

Objectives of the program:

- ▶ Educate women about the various opportunities available for entrepreneurship, particularly within the Dalit community, to encourage more women to consider entrepreneurship as a viable career option.
- ▶ Empower women with the knowledge, skills, and resources necessary to start and sustain their own businesses, thereby fostering economic independence and self-reliance.
- ▶ Provide information on access to finance, government schemes, subsidies, and other resources available to support women entrepreneurs, particularly those from marginalized communities.

Introduction of the program:

The Dalit Indian Chamber of Commerce and Industry (DICCI) organized an orientation program aimed at empowering and supporting women entrepreneurs, particularly those from marginalized communities. The program was designed to raise awareness about entrepreneurial opportunities, provide essential skills and resources, and foster a supportive ecosystem for women to succeed in business.

Highlights of the program:

Resource persons Dasari Aruna, state president, a women enterprenuer, M.shankar, santosh kumar, Murali mohan - members of DICCI motivated the students who were interested towards business in any field.

Smt.Dasari aruna elaborately explained about various state government and central government schemes for financial support to start a business or start up.



Outcomes:

The orientation program successfully achieved its objectives by providing valuable insights, practical skills, and networking opportunities to women entrepreneurs. Participants expressed appreciation for the informative sessions, networking opportunities, and the supportive environment created by DICCI. Several participants indicated their intention to pursue entrepreneurship and leverage the resources and support provided by DICCI.

Exploration of Ideas using Poster presentations on the occasion of national science day

Activity: Poster presentations

Date of the program:2-03-2023

Participants: All MPC and MPCs students

Objectives of the program:

- To increase awareness and understanding of specific topics in the science especially in physics.
- To stimulate the discussion and exchange of ideas among students.

About the program:

Department of Physics conducted poster presentation competition for all the students on science and new innovations and also arranged open discussion on new innovative ideas. students vaishnavi MPC 3rd year and sreelekha MPCs -2nd year presented the posters on production of electricity.

Vinika final year MPCs presented an innovative idea about rescue of children from borewell.

Guguloth Navya MBZC final year presented an idea about solar induction stove, i.e., An induction cooking system working with solar power.

Principal K.Rajani, and department HOD K. Vanisri appreciated all the students and selected solar induction stove project.

Feedback of the students:

1. The poster presentations created interest on the topic and also we came to know new ideas in science and technology.- Vinika- MPCs -3rd year
2. From this type of open discussions we can freely express and exchange our ideas.- G.Navya- MBZC final year





Orientation program on EEE(Education,Entrepreneurship, Employability) options

Date of the program: 12-09-2022

Participants: All final year students (MPC and MPCs)

Objectives of the program:

- Provide guidance on how to identify opportunities within the education field.
- Offer insights into the job market and career pathways within the education sector.
- To give information regarding entrepreneurship opportunities with the physics degree.

About the program:

An orientation program was conducted by the department of Physics for all the final year students of MPC and MPCs students. In this program department HOD K. Vanisri and faculty S. Kavitha explained about various opportunities with graduation in physics in education, employment, and entrepreneurship fields.

K. Vanisri lecturer in physics explained about various higher education opportunities like post graduation with different specializations and career paths in individual specialization. She also explained about various central level examinations like IIT JAM, Jest, Central universities, NITs, etc.,

S.Kavitha, lecturer in physics explained about Employability and entrepreneurship opportunities opportunities with physics degree.

Feedback of the students:

1. From this program we came to know about various central level universities and how to get seat in that universities. It was helpful to us- Prathyusha - MPCs -3rd year
2. We understood about various opportunities in Employability with graduation in physics.- Poojitha -Mpcs 3Rd year

What can you do with a physics degree?



Education

Post graduation in Acoustics
Astronomy
Astrophysics
Geophysics
Medical Physics
Nuclear physics
Bio physics
Environmental physics
Plasma physics
Material physics



Employment

Scientist jobs in
DRDO
Physical research laboratory
in Ahmedabad
Nuclear science scientist in
Delhi
BARK, ISRO, ONGC
BHEL, NTPC
other jobs in government
sector
SBI, Railways, SSC, Banking
sector, UPSC geoscientist



✓ Designing the devices in photonics
Nanotechnology
Magnetics
Robotics
optical fibres
Laboratory for characterization techniques

Entrepreneur



Department of physics
TTWRDC(W), RAJANNA SIRICILLA

Recommendations:

- DICCI should consider organizing similar orientation programs on a regular basis to reach a wider audience and provide ongoing support to women entrepreneurs.
- Further efforts should be made to enhance the capacity and skills of women entrepreneurs through advanced training programs, mentorship, and access to specialized resources.

PG orientation classes

Dates: From 2019-20 academic year to 2022-23 academic year

Students: E.Vaishnavi, Archana, Shireesha- MPCs -3rd year B.Akhila- MPCs 2nd year

Objectives:

- To provide pg coaching for the interested physics students.
- To encourage the students towards higher education.

Brief description:

The Department of Physics conducted a comprehensive coaching program for postgraduate (PG) students aimed at enhancing their understanding of core concepts,

Provided detailed syllabus of state university and central universities pg syllabus for entrance exam.

Department of physics prepared a schedule for this coaching day wise topic.

WE completed the syllabus before the pg entrance exams and also we have conducted weekly exams.



Outcomes:

- Enhanced the understanding of core concepts in physics.
- Students got the idea about entrance point of view preparation.
- They understood the important topics to cover to gain more marks in the entrance to get good rank.

Academic year 2021-22

Science Exhibition on the occasion of national science day

Date of the program: 28-02-2022

Participants: MPC and MPCs -2nd year and MPCs 1St year students

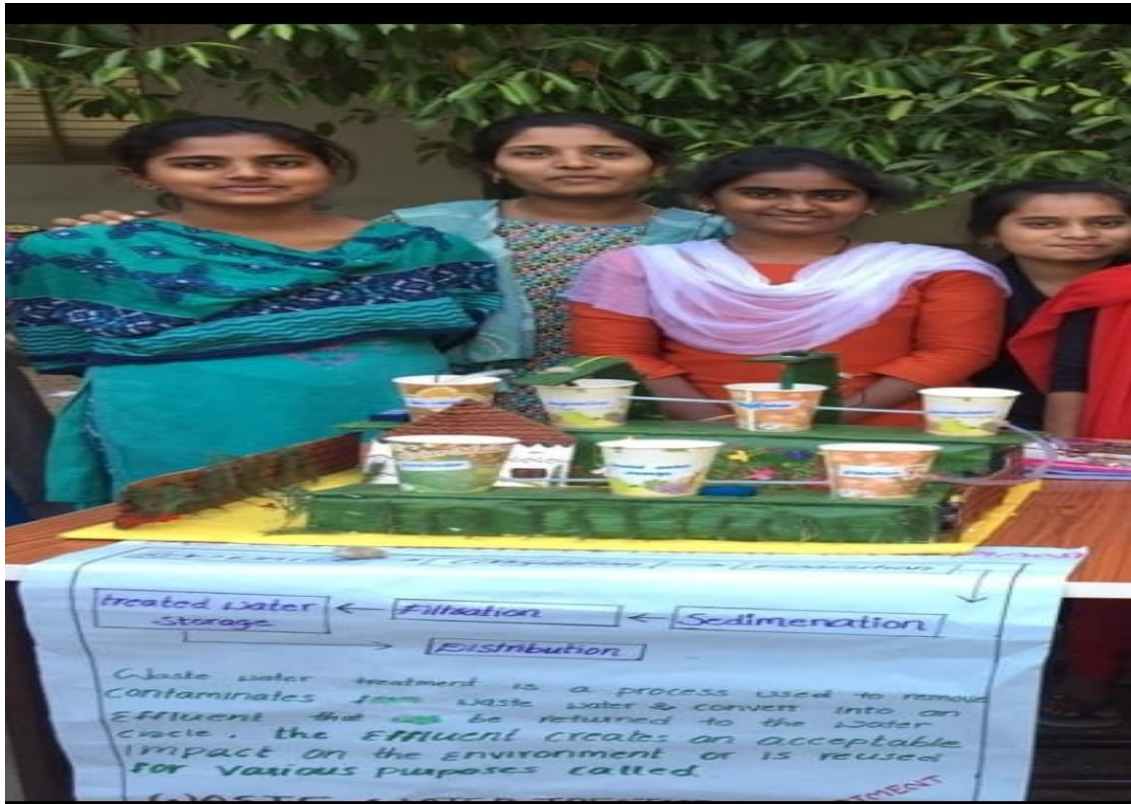
Objectives of the program:

- To explain about the importance of science in daily life.
- To encourage the students towards new innovations.

About the program:

National Science Day celebrations are usually organized to commemorate the discovery of the Raman Effect by Indian physicist Sir C.V. Raman on February 28, 1928. These celebrations aim to promote scientific temper and encourage scientific thinking among students. Department of physics organized a science exhibition in the campus. All the students participated in the program actively. Students prepared waste water treatment model and water dispenser model.







Feedback of the students:

- This program makes us to understand basic concept behind the topic.B. Kalyani- MPC 2nd year.
- Science exhibition creates interest in the subject.-M.Mamatha- MPCs - 3rd year

Academic year: 2020-21

Energy conservation day celebration:

Activity: Webinar

Date of the program: 14-12-2021

Participants: All MPC and MPCs students

Objectives of the program:

- To increase public awareness about the importance of energy conservation and its impact on the environment, economy, and society.
- To motivate the students to take proactive steps towards energy conservation by explaining about energy-saving measures, such as efficient appliances, insulation, and renewable energy solutions.

About the program:

Energy Conservation Day was celebrated on 14th December every year across all over India. Department of Physics organized a webinar on energy conservation methods with the aim of raising awareness about the importance of energy conservation and promoting sustainable practices.

Department HOD K. Vanisri as a resource person conducted this webinar. She explained about the importance of energy conservation for the future generations.

Feedback of the students:

1. This webinar helps us to understand the importance of energy conservation. Achala- MPCs -2nd year
2. This program creates awareness and understanding about responsibilities to save natural resources and energy saving methods.

TTWRDC (W). THANGALLAPALLY
ESSAY WRITING COMPETITION ON THE
OCCASION OF ENERGY CONSERVATION DAY
14-12-2021

**ENERGY
CONSERVATION
IS THE KEY TO A
BETTER FUTURE**

- Save Energy
- Save our Planet



Let us protect, preserve and conserve
our valuable resources for a sustainable future
National Energy Conservation Day 2020



Close

Participants (18)

Search

| | | | | |
|----|------------------------------|--|--|--|
| VK | Vanisri Kandukuri (Host, me) | | | |
| A | Achallasada | | | |
| AG | Akhila Gudise | | | |
| BM | Bhargavi mpc | | | |
| BV | Bhukya Varsha | | | |
| HB | himani babu | | | |
| L | Laxmi | | | |
| MA | M. Anusha | | | |
| M | M.shirisha | | | |
| MG | Mayuri G | | | |
| NR | N ramya | | | |
| PC | poojitha ch | | | |

Invite

Mute All

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National science day celebration for the academic year 2020-21

Activity: Poster presentation

Date of the program: 28-02-2021

Participants: MPCs 2nd year and 3rd year students M.Akhila and Sushmitha - MPCs -3rd year Gayathri and Swarna - MPCs -2nd year

Objectives of the program:

- To encourage discussions and exchange of ideas among attendees about the presented project or topic.
- To improve communication skills of the students
- To encourage the students to present their views about the topic without fear on the stage.

About the program:

Department of Physics organized a poster presentation on the occasion of National science day on 28-02-2021. M.Akhila and Susmita 3rd MPCs, Swarna and Gayathri MPCs -2nd year students presented posters on physics concepts Fleming left hand and Right hand rules, Newton's laws etc.,



Feedback of the students:

1. This program improves communication skills and presentation skills-
Gayathri - MPCs -2nd year
2. Poster presentations helps us learn by creating and to understand the the
concept easy with small pictures and drawings. - M. Akhila, MPCs -3rd year.

Academic year: 2019-20

science exhibition for the year 2019-20

Date of the program: 28-02-2020

Participants: All MPC and MPCs students

Objectives of the program:

- To promote scientific temper in the students
- To create interest about science in the students

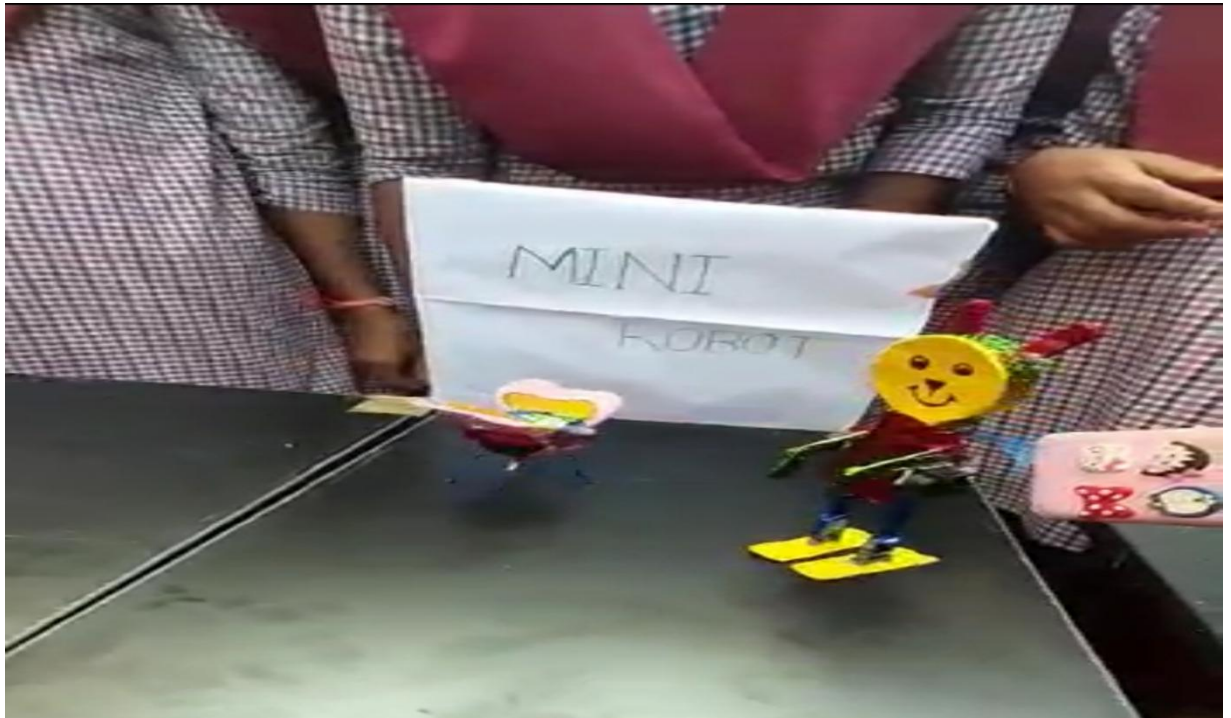
About the program:

On 28-02-2020 at TTWRDC (w), Thangallapally celebrated National Science Day with great enthusiasm. This day commemorating the discovery of the Raman Effect by Sir C.V. Raman in 1928 is observed to promote the importance of science in society and to honor the contributions of scientists.

MPCs -2nd year students Varsha, Gayathri, swarna, Akhila, Himani, suchitra, Prathyusha prepared Mini Robot and moving butterfly model.

Feedback of the students:

1. the exhibits to be engaging and interactive
2. Exhibition was well organised and created interest on science and technology.



Academic year: 2018-19

Exploration of new science exhibitions on the occasion of national science day

Date of the program: 28-02-2019

Participants: MPCs -2nd and 3rd year students

Objectives of the program:

- To promote scientific temper and encouraging scientific research and innovation, commemorating significant scientific achievements.
- To inspire students to pursue careers in science and technology. It's also a platform to showcase advancements in science and technology to the students.

About the program:

The National Science Day celebration was held on 28-02-2019 at TTWRDC (W) Thangallapally commemorating the discovery of the Raman Effect by Sir C.V.Raman. The event aimed to promote scientific temper and inspire the younger generation to pursue careers in science.

Science exhibition was conducted by department of physics. Students showcased science experiments and innovative ideas in college campus. Principal Ashok, vice principal K.Rajani, department HOD K.Vanisri and all the faculty appreciated the students for their participation in the occasion.





Feedback of the students:

1. It was useful to participate in this event to know different science experiments and it was very interesting - Vijetha- MPCs 2nd year
2. This program helps us to understand the concept behind the science experiments - Manasa- MPCs -2nd year

Academic year: 2017-18

Mini projects on national science day

Date of the program :- 28-02-2018

Participants :- MPCs 2nd year students

Names of the students :- Susmita, Nagamani, Shireesha, Vandhana, maneesh, Ravali - MPCs 1st year

Objectives of the program:

- Recognizing and commemorating the contributions of scientists and researchers.
- Encouraging scientific research, innovation, and exploration.
- Inspiring students to pursue careers in science and technology.

Theme of the program:- As part of the national science day to mark the occasion of sir C.V. Raman's discovery " The Raman Effect ", department of physics was organized a science fair / exhibition on 28-02-2020. Students participated actively in this programme . Second year students Sushmitha, Nagamani, Shireesha, Vandhana prepared Solar power usage model, small fan with DC motor model and Lifi project etc., They explained about all their projects with working models.

Feedback of the students

1. "I was really interested in the experiments" or "The demonstrations were captivating."- Vandhana - MPCs -2nd year
2. I didn't know about the Raman Effect before, but now I understand it better.- Swetha- MPCs -2nd year



