

2018-2019

2

## Stephen William Hawking

08/01/2018

08/01/1942, 14/03/2018

- \* On 08/01/2018 we are discussed about the world famous scientist Stephen Hawking
- \* All MPE and MPES students participated in this discussion.
- \* The following points were discussed.
- \* He was born on 08/01/1942
- \* He was director of research at the centre for "Theoretical cosmology" in the university of Cambridge.
- \* His fields of research were General Relativity and Quantum Gravity.
- \* His thesis was done on properties of expanding universe
- \* He was notable for his revolutionary "Big Bang theory" for creation of this world.
- \* He is also known for "Hawking Radiation"
- \* He wrote a famous book "A Brief History of Time"
- \* He is confined to a wheel chair because of his physical disability.
- \* He was passed on 14/03/2018



*Rhagyasa*  
Department of Physics  
TTWRDC(M)-UTNOOR (639)  
Dist. Adilabad

*[Signature]*  
Principal  
T.T.W.R. Degree College (Women)  
UTNOOR 50311  
Dist. Adilabad-T.S.



## National Science Day 28/02/2018

3

- \* On 28/02/2018 we are celebrated National science Day. on this day we were conducted quiz competition, speeches and essay writing.
- \* The following points were discussed in the speeches
- \* We celebrate this day to mark the discovery of the "Raman Effect" by Indian physicist Sir C.V. Raman
- \* His full name is "Chandra Shekar Venkata Raman"
- \* Raman effect was an important discovery in the field of scattering of light.
- \* In 1930 he was awarded the great "Nobel Prize"
- \* This day create awareness about the importance of science and Technology.



*Pragya*  
Department of Physics  
TTWRDC(W)-UTNOOR (639)  
Dist. Adilabad

*[Signature]*  
Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



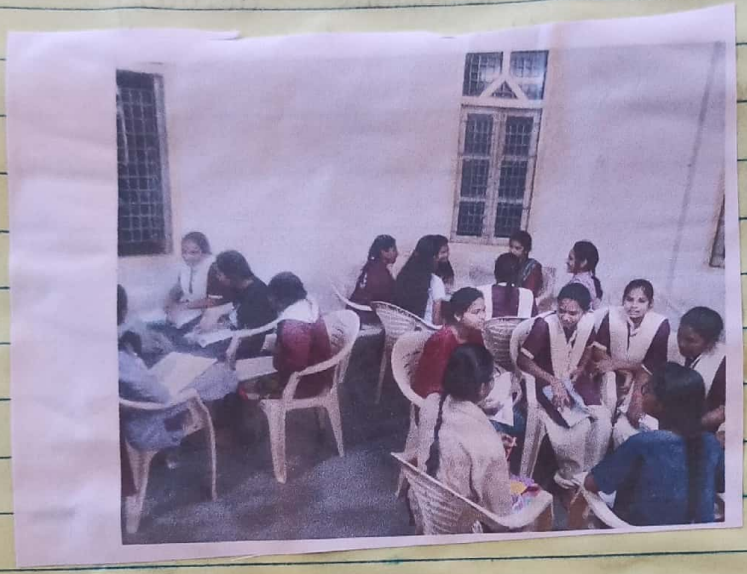
Lab Activity

23/06/2018

All final second

\* Lab activity conducted on 23/06/2018 year student participated in this year's activity.

\* Lab activity conducted on measurement of Stefan's constant is discussed in the class and asked them to create new different models related with the physics.



*Rhagya*  
Department of Physics  
TTWRDC(W)-UTNOOR (639)  
Dist: Adilabad


*[Signature]*  
Principal  
T.T.W.R. Degree College (Women)  
UTN: 504 311  
Dist: Adilabad-T.S.

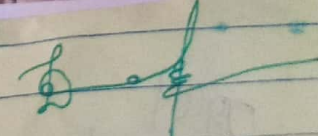


## February 28 - 2020 (National Science Day)

- \* On the occasion of National Science Day, we conducted Quiz competition in the college and we also conducted seminars
- \* students were very actively participated
- \* the following points were discussed in the seminars
- \* We celebrate this day to mark the discovery of the "Raman Effect" by Indian physicist Sir C.V. Raman.
- \* On this day, 1928 Sir C.V. Raman announced his discovery
- \* In 1930, Sir C.V. Raman was awarded the great "Nobel Prize"
- \* Raman effect was an important discovery in the field scattering of light.
- \* This day create awareness to students about the importance of science and technology.



  
 Department of Physics  
 TTWRDC(M)-UTNOOR (639)  
 Dist: Adilabad

  
 Principal  
 TTWRDC College (Women)  
 UTNOOR-504 311  
 Dist. Adilabad-T.S.

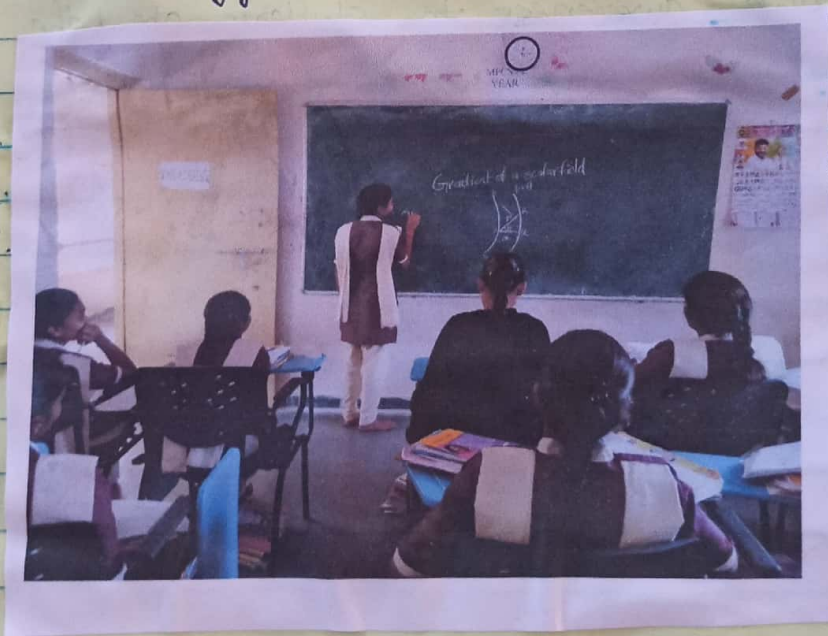


### Activities :

- \* Conducted group discussions in the class
- \* prepared the formula charts with students
- \* Discussed the importance physics in various field
- \* conducted seminars to students. some students were interested to participated

### MPCs - I year

1. K. mocenika - Physical quantities
2. Ch. Gangabhavani - Integrals
3. Summayya - Gradient of a scalar field



1.  
2.  
3.

field lines

ॐ

Department of Physics  
TTWRDC(W)-UTNOOR(639)  
Dist: Adilabad

Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504  
Dist. Adilabad

## Activities:-

1. conducted group discussions on mathematics physics - fundamentals
2. prepared formula charts for easy understanding of problems
3. conducted seminars to students
4. some students were interested to participate in the seminars.

## MPCs - I yr

1. K. Sanika - Light properties
2. S. Jyothi - semiconductors, insulators, conductors
3. U. Archana - Stoke's theorem
4. R. Usha - Green's theorem

## MPCs - II yr

1. P. Raja - magnetic flux
2. Ch. Shireesha - Biot-Savart law
- 3.



Department of Physics  
T.T.W.R.C.M. - UTNOOR (639)  
Dist: Adilabad

Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



Albert Einstein

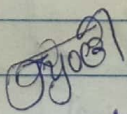
14/03/20

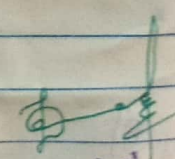
- \* On 14/03/20 we discussed about Albert Einstein
- \* On this day we conducted seminars to students
- \* The following points were discussed
- \* Albert Einstein was a great genius and the most famous scientist of all time.
- \* Einstein is best known for developing the theory of relativity
- \* He created the world's most famous eqn

$$E = MC^2$$

- \* Some of his important discoveries are - Quantum theory of light, photo-electric effect, wave-particle duality and many more



  
 Department of Physics  
 TTWRDC(W)-UTNOOR (639)  
 Dist: Adilabad

  
 Principal  
 T.J.W.R. Degree College (Women)  
 UTNOOR-504 311  
 Dist. Adilabad-T.S.



## Activities

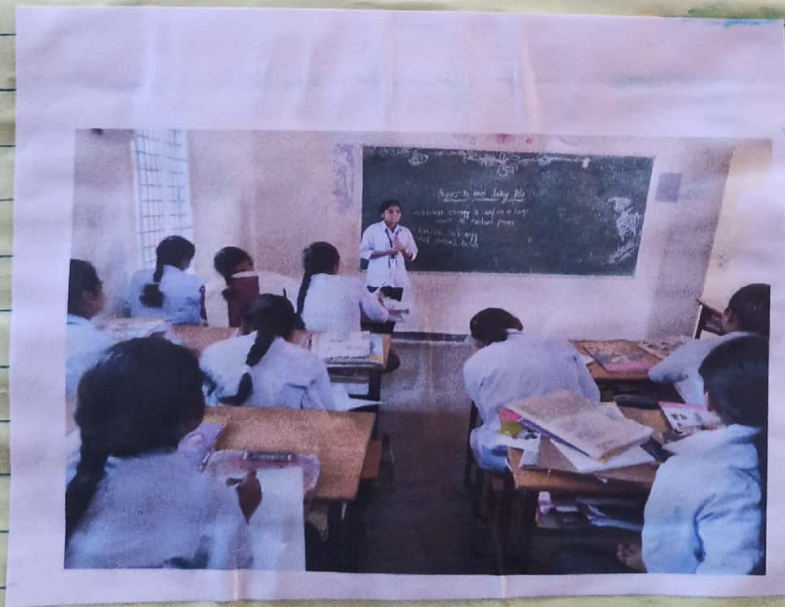
### Physics in our daily life.

06/05/2020

On 06-05-20 we discussed the importance of physics in our daily life

\* The following points were discussed

- \* Automobile technology is based on the principles of thermodynamics
- \* Nuclear energy is used on a large scale to produce power
- \* Radar technology is based on the rules of physics
- \* Lasers are widely used in medical science
- \* All the electrical devices which are used as home applications are based on physics rules and laws



Department of Physics  
TTWRDC(W)-UTNOOR (639)  
Dist: Adilabad

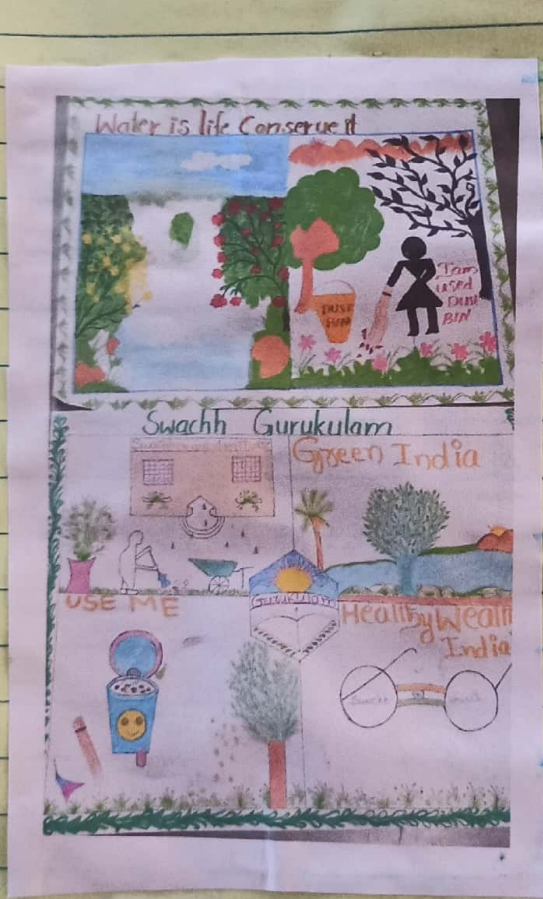
Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



Swachh Gurukulam Drive 05/09/2020

All MPCs students were participated in Swachh Gurukulam Drive programme from 05-09-2020 to 10-09-20

- \* Under this programme MPCs final year students performed a skit on clean and green.
- \* Under this programme students cleaned their classrooms, dormitories and college ground.



Department of Physics  
TTWRDC(M)-UTNOOR (639)  
Dist. Adilabad

Principal  
T.I.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad



## World Science Day for peace and development

10/11/2022

13

- \* On 10/11/2022 we have celebrated world science day for peace and development.
- \* We conducted quiz competition to the student.
- \* We conducted speeches. All student participated in this celebration.
- \* The following points were discussed
- \* The importance and relevance of science in our daily life.
- \* The theme for 2022 is "Basic sciences-for Sustainable development"
- \* To spread awareness among the public about the role of science in peaceful and sustainable societies.
- \* "The science of today is the technology of tomorrow" this quotation was given by Edward Teller



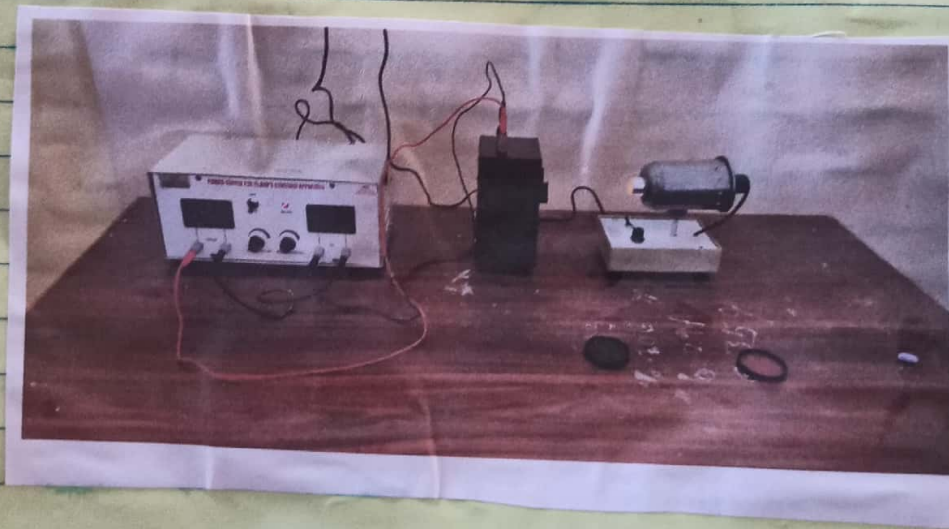
Department of Physics  
TTWRDC(M)-UTNOOR (639)  
Dist: Adilabad

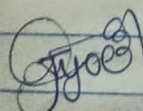
Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 321  
Dist. Adilabad-T.S.

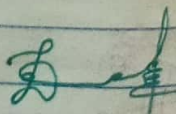


## Lab Activity :- Group Discussion 16/10/2020

\* Physics Lab activity conducted on 16/10/20. All final year student participated in this Lab activity. Lab activity conducted on determination of Planck's constant by using solar cell.



  
 Department of Physics  
 TTWRDC(W)-UTNOOR (639)  
 Dist. Adilabad

  
 P.T.W.R. Degree College (Women)  
 UTNOOR-504 311  
 Dist. Adilabad-T.S.



Student seminars

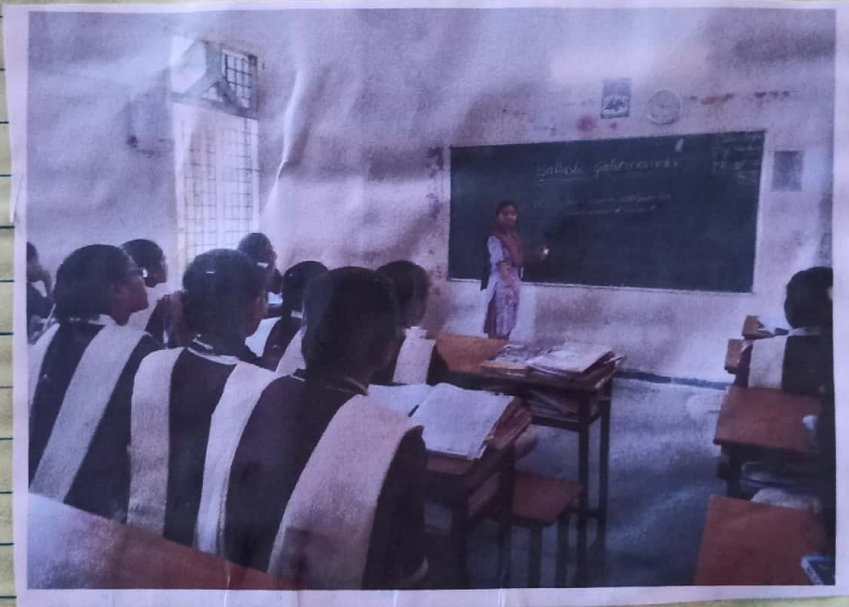
23/11/22

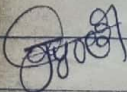
Student seminars conducted on 23/11/22. All II<sup>ya</sup> students actively participated in this seminar

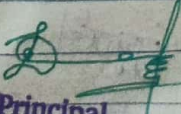
subject: physics (Electromagnetism)

Topic: Ballistic Galvanometer

student name: prathyusha (MPCS-II<sup>ya</sup>)



  
Department of Physics  
TWRDC(W)-UTNOOR (639)  
Dist: Adilabad

  
Principal  
T.J.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



Student seminars conducted on 05/12/22. All - final year students participated in this seminar.

Subject: Physics (modern Physics)

Topic: Photo-electric effect

Student Names: vramatha (MPCs-II year)



*Jyothi*

Department of Physics  
TTWRDC(W)-UTNOOR (639)  
Dist: Adilabad

*Jyothi*  
Principal

T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S



Issac Newton (4/01/1643)

4/01/2023

- \* On 4/01/2023 we discussed about Sir, Issac Newton
- \* The following points were discussed
- \* Issac Newton was one of the greatest and most influential scientist who ever lived
- \* He was English physicist, mathematician, astronomer and theologian
- \* He was raised by his maternal grandmother
- \* He is best known for his three laws of motion and the universal law of Gravitation
- \* Newton first law, (law of inertia)
- \* Newton second law (law of force)
- \* Newton third law (Action, reaction)  
Every action there is a equal and opposite reaction
- \* He died on 31 March 1727
- \* Sir Issac Newton was one of the best minds of all the time



*(Signature)*

Department of Physics  
TTWRDC(M)-UTNOOR (639)  
Dist. Adilabad

*(Signature)*  
Principal  
T.T.W.R. Degree College (women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



14/03/23

ActivitiesAlbert Einstein

On 14/03/23 we discussed about Sir Albert Einstein. The following points were covered in this discussions.

Albert Einstein was born on 14<sup>th</sup> March 1879 in Germany.

\* He is known throughout the world as one of the greatest scientist. He was a genius.

\* He created the world's most famous equation

$$E=mc^2$$

\* In 1921, he received the Nobel Prize in Physics for his significant work on the photoelectric effect.

\* He was also given the title of 'Person of the Century' by Time Magazine in 1999.

\* He was died on 18<sup>th</sup> April 1955.

\* He was 76 years old when he died.

\* "A person who never made a mistake, never tried anything new." famous quote said by Albert Einstein.



Department of Physics  
TJWRDCAW-UTNOOR (639)  
Dist: Adilabad

Principal  
T.J.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



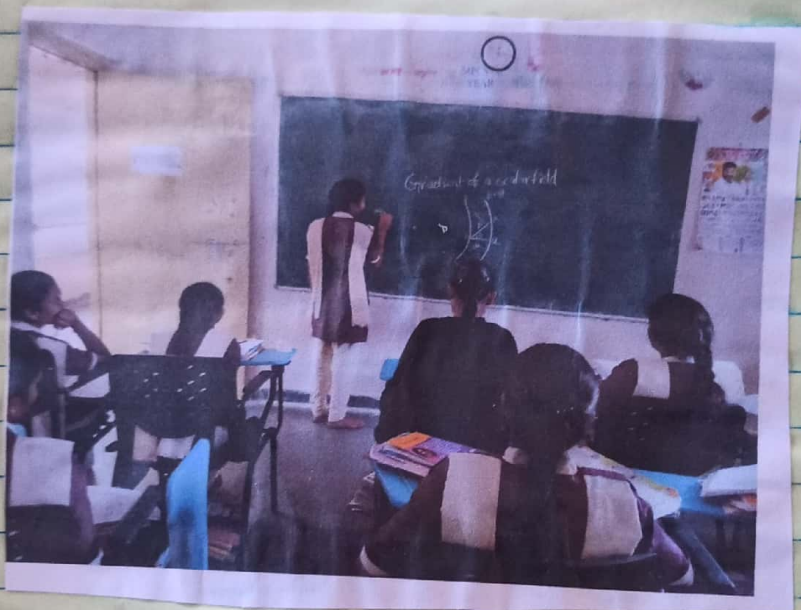
### Student seminar


- \* Conducted student seminar on 28/03/23
- \* All the first year students are participated in this seminar


Subject: Physics (Vector Analysis)

Topic: Gradient of a scalar field.

Student name: R. Geethanjali (MPCS-I yr)



  
 Department of Physics  
 TWRDCM-UTNOOR (639)  
 Dist: Adilabad

  
 Principal  
 T.T.W.R. Degree College (Women)  
 UTNOOR-504 311  
 Dist. Adilabad-T.S.



student seminar 17/04/23

Conducted student seminar on 17/04/23. All the final year students are participated in this seminar.

Subject:- physics (spectroscopy)

Topic:- Raman effect

student Name:- Ufo, Sanika (MPCS - III yr)



*(Signature)*  
Department of Physics  
TNRDC(W)-UTNOOR (639)  
Dist. Adilabad

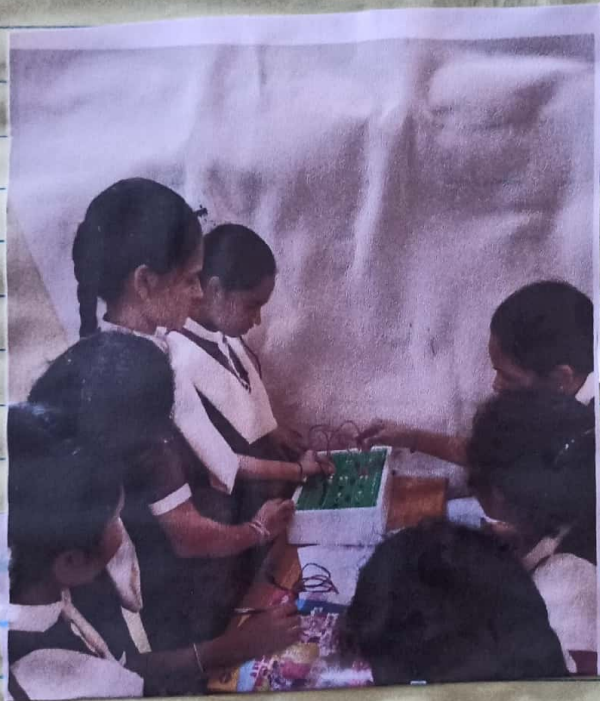
*(Signature)*  
Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



Lab Activity: - (Group discussion)

Physics department conducted Lab Activity on 18/05/23. All the final year students are participated in this lab activity. Lab activity on Logic Gates.

- ⇒ Discussed about AND, OR, NOT gates
- ⇒ students explained about AND, OR, NOT gates and their truth tables.
- ⇒



Department of Physics  
T.T.W.R.C. Degree College (Women)  
UTNOOR (639)  
Dist. Adilabad

T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.

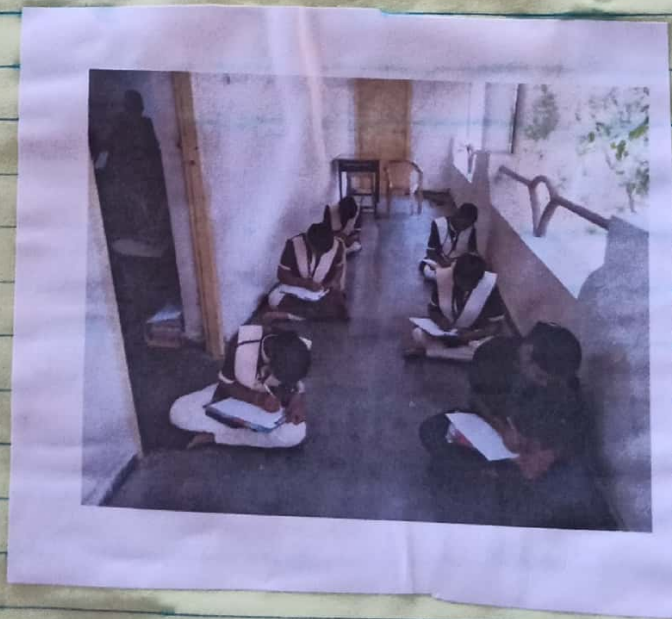


22 World science day for

10/11/2023

## Peace and development

- \* on 10/11/2023 we are celebrated world science day for peace and development.
- \* on this day we are conducted essay writing, Debate and speeches.
- \* the following points were discussed in this celebration
- \* The international science day theme is "Building Trust in Science!"
- \* this theme focuses on how science can help us build a better world.
- \* science and Technology plays a key role nowadays
- \* Given information about some great scientists about their lives and achievements
- \* science is one of the most important channels of knowledge.



Shreshth  
Department of Physics  
TNRDCM-UTNOOR (639)  
Dist. Adilabad

Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



2023-2024  
student seminars

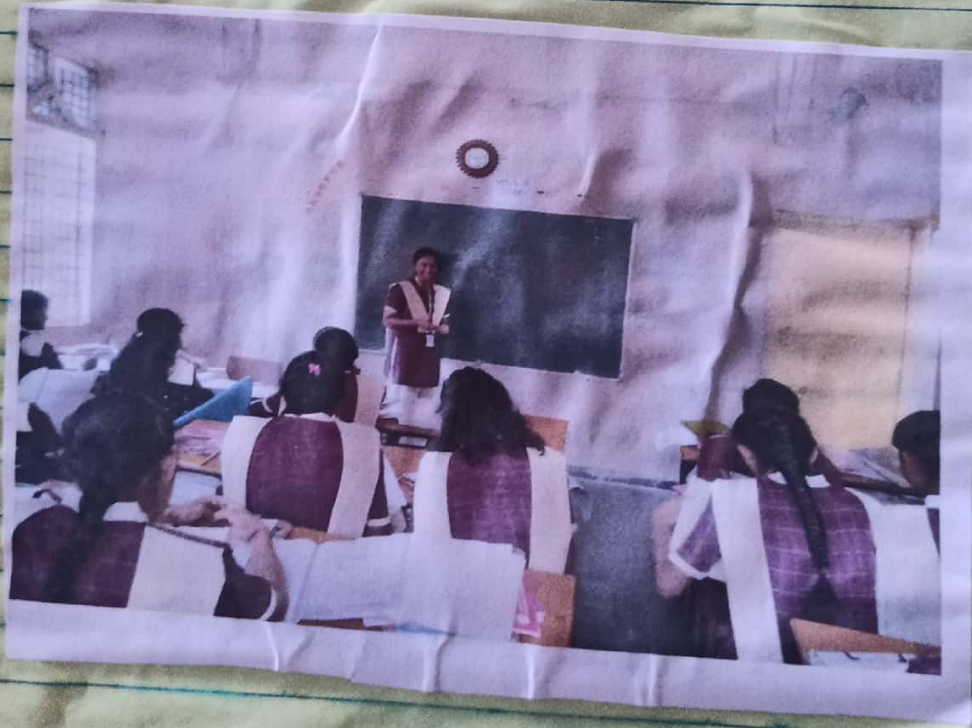
conducted student seminars on 27-09-23. All the second year students are participated in this seminar.

seminars are extremely significant in this lives of students. Through seminars students acquired more knowledge. students easily understood the concepts.

Subject : Physics (Electromagnetism)

Student name: Sony (MPCs - II yo)

Topic : Gauss law



*Sony*

Department of Physics  
T.T.W.R.D.C.(W)-UTNOOR(639)  
Dist:Adilabad

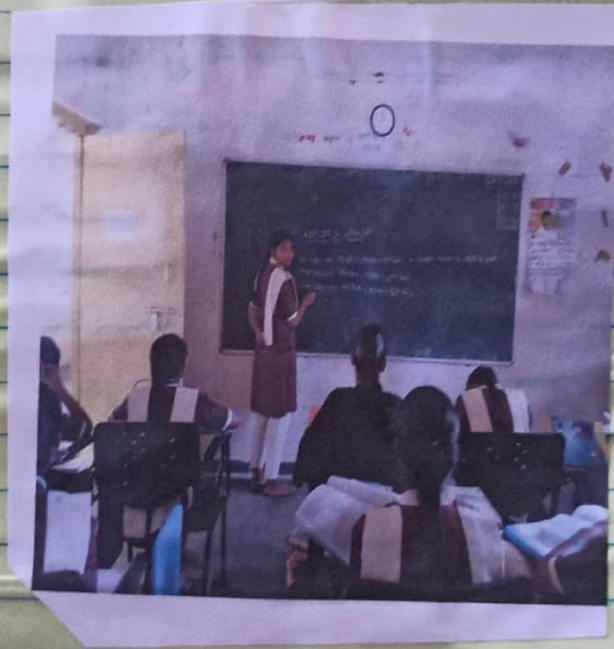
Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



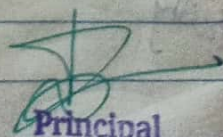
## Student Seminars

- Conducted student seminar on 18-11/23
- All the first year students are participated in this seminar

Subject: RPhysics (mechanics)  
 Topic: Kepler's laws  
 Student Name: 1. Rashikala (MPCs-I yr)  
 2. Atk. Sonali Bindra (MPCs-I yr)



Department of Physics  
 T.T.W.R.D.C. (W) UTNOOR (639)  
 Dist. Adilabad

  
 Principal  
 T.T.W.R. Degree College (Women)  
 UTNOOR-504 311  
 Dist. Adilabad-T.S.



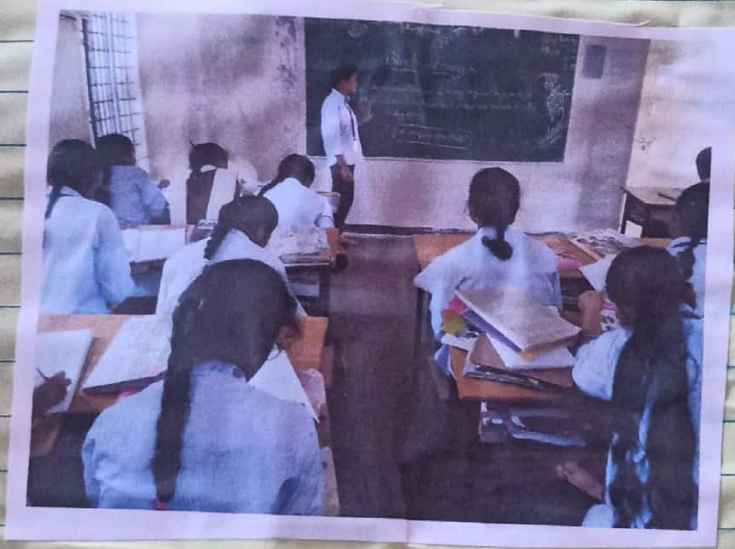
student seminar

\* Conducted student seminar on 19-11-23. All the final year students were participated in this seminar. Through seminar students easily understood the concepts. Students can enhance their communication skills.

Subject :- Physics

Topic :- Binding Energy

Student Name :- Jyothi (MPCS - III yr)



*Shreshth*  
Department of Physics  
TTWRDC(W)-UTNOOR (639)  
Dist. Adilabad

*[Signature]*  
Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 311  
Dist. Adilabad-T.S.



student seminars

20/11/23

\* conducted student seminars on 20/11/23. All the MPCS II year students participated in this seminar.

subject: Physics (Electromagnetism)

Topic: Growth and decay in an Inductance-Resistance circuit

students Names: Sony Ananya (MPCS-II yr)

semester: III sem



*Sony Ananya*  
Department of Physics  
TWRDCW/UTNOOR (639)  
Dist: Adilabad

*[Signature]*  
Principal  
T.I.W.R. Degree College (Women)  
UTNOOR-504-311  
Dist. Adilabad-T.S.



## student seminars

\* Conducted student seminars on 22/11/23. All the MRS II year students participated in this seminars. Through seminars students can improve their skills.

Subject : Physics (Electromagnetism)

Topic : Growth and decay in L-R-C circuit

Student names: Pallavi (MRS-II year)

Semester : II sem



Department of Physics  
TTWRDC(W)-UTNOOR (639)  
Dist: Adilabad

Principal  
T.T.W.R. Degree College (Women)  
UTNOOR-504 211

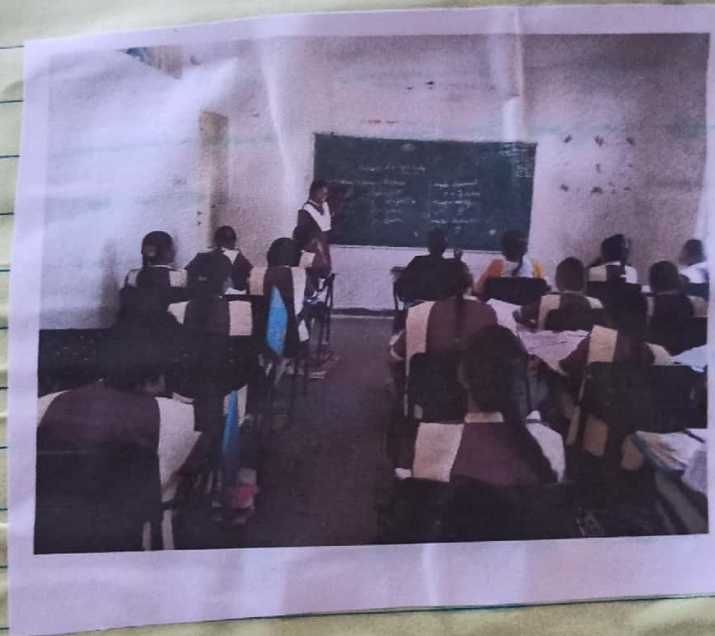


Student Seminars

11/12/23

\* conducted student seminars on 11/12/23. All first year students participated in this seminar.

subject: Physics (Mechanics)  
Topic: Mechanics of a rigid body.  
student name: M. Rashikata (MPCS-Iyo)  
semester: I sem



*Shreshth*  
Department of Physics  
TWRDCW-UTNOOR (639)  
Dist. Adilabad

*[Signature]*  
Principal  
T.I.W.R. Degree College  
UTNOOR-504 3  
Dist. Adilabad-T

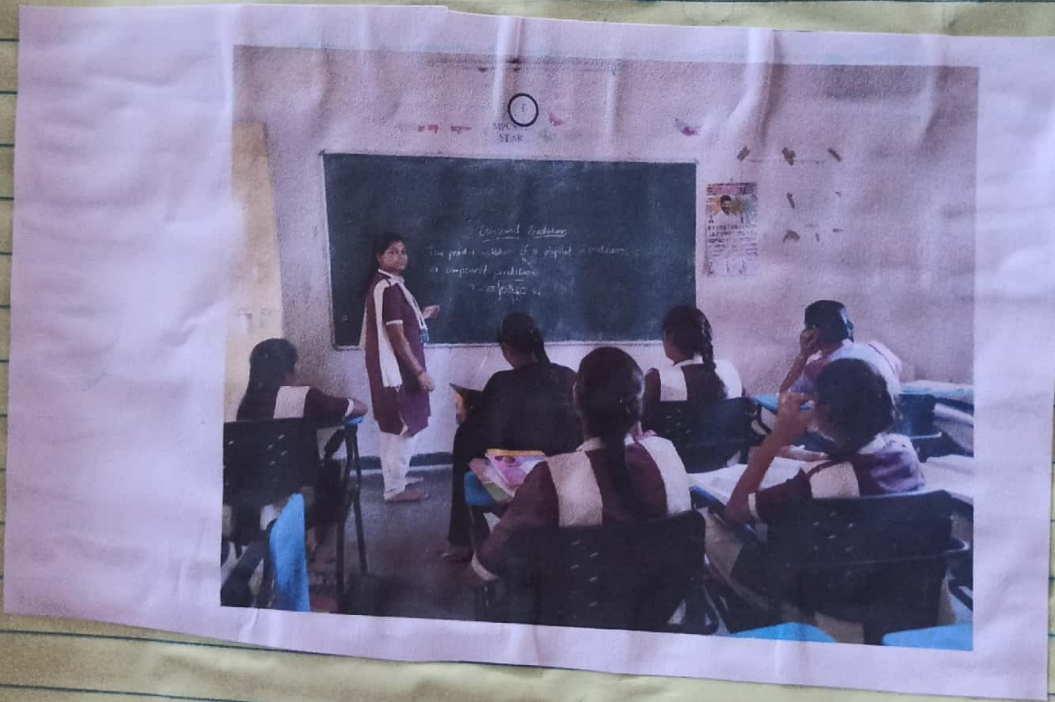


Lab Activity

14/11/2023

- \* Lab activity conducted on 14/11/2023. All first year Mps students participated in this activity.
- \* Activity <sup>Seminar</sup> conducted on study of a compound pendulum - determination of 'g' and 'k'

Topic : Compound pendulum  
 Student Name : S. Nigamani  
 Semester : I Sem



*Shree*

Department of Physics  
 TTWRDC(W)-UTNOOR (639)  
 Dist: Adilabad

*[Signature]*  
 Principal  
 T.F.W.R. Degree College (Women)  
 UTNOOR-504 311  
 Dist. Adilabad-T.S.



# Student seminars

30

Lab Activity

15/11/2023

\* On 15/11/2023 physics Lab department activity conducted. seminar  
All second year students participated.

\* We are discussed the "maximum power transfer theorem".

$$[r = R_L]$$

\* The Load Resistance is equal to the source resistance.

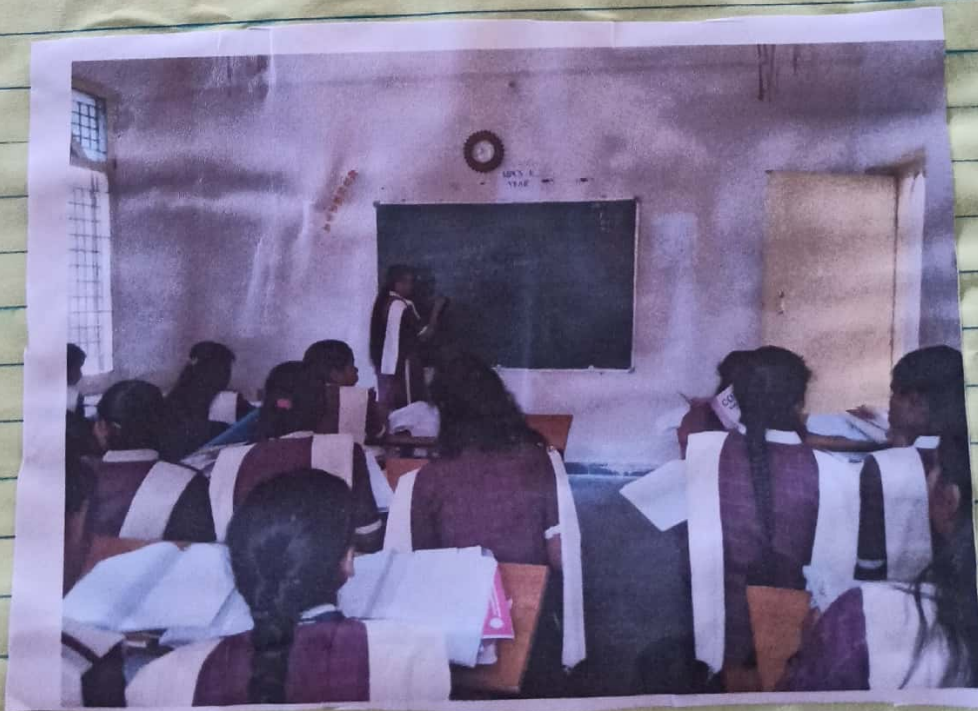
\* The condition of maximum power transfer is

$$[r = R_L]$$

\* Efficiency of source ( $\eta$ ) =  $\frac{\text{output power}}{\text{Input power}}$

$$\eta = \frac{1}{2}$$

$$\% \eta = \frac{1}{2} \times 100 = 50\%$$



Shreshth  
Department of Physics  
TTWRDC(M)-UTNOOR (639)  
Dist. Adilabad

Principal  
T.J.W.R. Degree College (W)  
UTNOOR-504 911  
Dist. Adilabad-T.S.