

# TTWRDC (M) DEGREE AND PG COLLEGE NAGARKURNOOL

## Department Activity for the academic year 2022-23

On the eve of National Science Day 2023, that is on February 28<sup>th</sup> to commemorate the discovery of Raman Effect by renowned Indian Physicist and Nobel laureate "**Sir C.V Raman**". The Department of Physics has organised the following activities:



## **Quiz competition:**

Four groups each consisting 6 members were participated and the winners are :

Ch. Sanjay (MPCs) V Vishnu(IMSc) B Vijaykanth (MZC III) K Suresh (MPC III) A Shankar (MPCs III) H Arvind (BZC III)



### **Quiz questions:**

- 1. The theory of relativity is presented by which scientist? Albert Einstein
- 2. What type of lens is used in a magnifying glass? Convex
- 3. Total number of colors exists in sunlight? 7
- 4. Who is the first person to define speed? Galileo
- 5. Which color deviates least when passing through a Prism? Red
- 6. What is the size of Electron as comapared to Proton and Neutron? 1/1836
- 7. Light year is the unit of? Length
- 8. Hertz is the SI unit of? Frequency
- 9. The velocity of the sound is highest in? Metal
- 10. SI unit for measuring work and energy is ? Joule
- 11. Charles is based on ? Gas
- 12. When all the forces and torques are balanced in a mechanical body it is said to be in? Equilibrium
- 13. An atom with more neutrons than protons is called? Isotope
- 14. The tidal waves on sea is mainly due to? Gravitational Effect of Moon on Earth
- 15. The three famous law of Kepler is related to? Planetary motion
- 16. Flemings "Left hand Rule" is associated with the effect of? Magnetic field on current
- 17. The wave theory of light is based on? Huygens principle
- 18. Impulse is the product of \_\_\_\_\_ and \_\_\_\_ ? Force and time
- 19. Ozone layer restricts with light radiation? UV
- 20. Pencil lead is made up of? Graphite
- 21. Red light is used in traffic signals because? It has longest wavelength
- 22. Summer solstice occurs in the Nothern hemisphere? June 21
- 23. The filament of an electric bulb is made of? Tungsten
- 24. The rainbow is formed by? Dispersion of light
- 25. Which is used to measures strength of electric current ? Ammeter
- 26. Atomic bomb is based on the principle of? Nuclear fission

- 27. What is a device that allows electric current to pass through it in one direction only, used for converting AC to DC? Rectifier
- 28. X rays are discovered by ? Rontgen
- 29. Cryogenic engine find application in? Rocket technology
- 30. The electromagnetic waves used in the telecommunication are? Microwave

#### **Poster presentation :**

Poster presentation competition was conducted, with depicting the theme of Science Day 2023 i.e., **Global Science for Global well-being.** The students have wonderfully showcased their posters depicting how the nations came together and contributed towards science and technology especially during the pandemic.



#### Seminar:

A seminar was given by Head of the department **P Rani** elaborating **Raman Effect** and the significance of Science Day on 28/2/202, guided and motivated towards science and how it will impact human life.



# Department signed up for Space Science program by ISRO in association with IIRS:

The department of Physics participated in START (Space Science & Technology Awareness Training) programme that is organised by ISRO in association with IIRS after being approved as nodal centre for conducting the program by submitting the the expression of interest. Head department of Physics has been nominated as Coordinator.

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The program consists of 25 sessions starting from 20<sup>th</sup> July 2023 to 7<sup>th</sup> August 2023 giving an idea of different concepts related to space science and astronomy by eminent speakers of

reputed institutions. One student named Eslavath Anjaneyulu of MPCs III, has been selected for the program and attended the online sessions in e class monitoring system and his attendance has been updated by the coordinator.



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The student has attended most of sessions and was eligible for examination and Certificate. IIRS Dehradun which is the organising body of programme, has given us the examination slot on 17/8/2023 and the student has successfully attended the online exam and the study material which was provided in the e class monitoring system was helpful in his preparation.

#### Learning Outcomes of the Course:

- The major outcome of the course is it has ignited the scientific spirit and knowledge with regard to space science and astronomy.
- The student has become enthusiastic in pursuing Masters in Space Science or to join in any further courses or projects by ISRO.