

**ASD GOVERNMENT DEGREE COLLEGE FOR WOMEN (A),
KAKINADA**

DEPARTMENT OF PHYSICS



**GUEST LECTURES
(2018-19 to 2023-2024)**

S.NO	DATE	Topic	RESOURCE PERSON
1	08/08/2024	Guest Lecture on Preparation Techniques For Civil services, Group Services and Other Government Jobs	Dr K. Venkateswara Rao, Commissioner, Narasaraopet
2	11/06/2024	Guest Lecture on Career opportunities in Physics	Prof Y.C. Ratnakara Rao, Professor, SV University, Tirupathi
3	15/12/2023	Online Guest Lecture on Mathematical modelling and applications to real life Problems	Prof G. P. Rajasekhar, Department of Physics, IIT, Kharagpur and Prof GVSR. Dhiksithulu Department of Physics, JNTU, Kakinada
4	26/09/2023	Guest Lecture on Thermodynamics	Smt S. Maheswari, Lecturer in Physics, V.S Lakshmi Degree & PG College, Kakinada
5	29/08/2023	Guest Lecture on Nano Technology	Dr. K. Subrahmanyam, Lecturer in Physics, GDC, Jaggampet
6	27/02/2023	Guest Lecture on Global Science for Global Wellbeing	Dr K.K.V. Rama sastry, Niveditha Youtube Channel
7	22/02/2023	Guest Lecture on ISRO-Success story in Launching Satellites	Y. Siva prasad, Retd Scientist, ISRO

8	07/07/2022	Guest Lecture on Atomic and Molecular Spectra	G. Sridevi, Lecturer in Physics, PRGC(A), Kakinada
9	22/02/2022	Guest Lecture on Rocket Science	Y. Siva prasad, Retd Scientist, ISRO
10	10/02/2022	Guest Lecture on Thermodynamics & Carnot's Cycle	G. Jayadev, Lecturer in Physics, PRGC(A), Kakinada
11	06/01/2022	Guest Lecture on Applications in Nuclear Physics	Prof D.L. Sastry, Retd Professor, Andhra University, Visakhapatnam
12	09/02/2021	Guest Lecture on Self-management for Career Planning	Prof Y.V.S.S Varaprasad, Professor of Commerce management, Gitam University, Vizag
13	18/12/2021	Guest Lecture on Importance of National conservation Day, Effects of Social media, Addiction of students to TV, Internet	Dr K.K.V. Rama Sastry, Niveditha YouTube Channel
14	18/12/2021	Guest Lecture on Practice of Physics and its principles to control harmful and destructive effects of fire and smoke	Dr K.K.V.Rama Sastry, Niveditha YouTube Channel
15	14/12/2020	Guest Lecture on Importance of National conservation Day, Effects of Social media, Addiction of students to TV, Internet	Dr K.K.V.Ramasastri, Niveditha Youtube Channel
16	28/02/2020	Guest Lecture on Women in Science	Dr .P. Jyothi, Lecturer in Physics, PRGC, Kakinada
17	18/12/2019	Guest Lecture on Waves and Oscillations	Dr. S. V. G. S. Prasad, Ideal college, Kakinada
18	21/08/2019	Guest Lecture on CHANDRAYAAN-2	Y. Siva prasad, Retd Scientist, ISRO

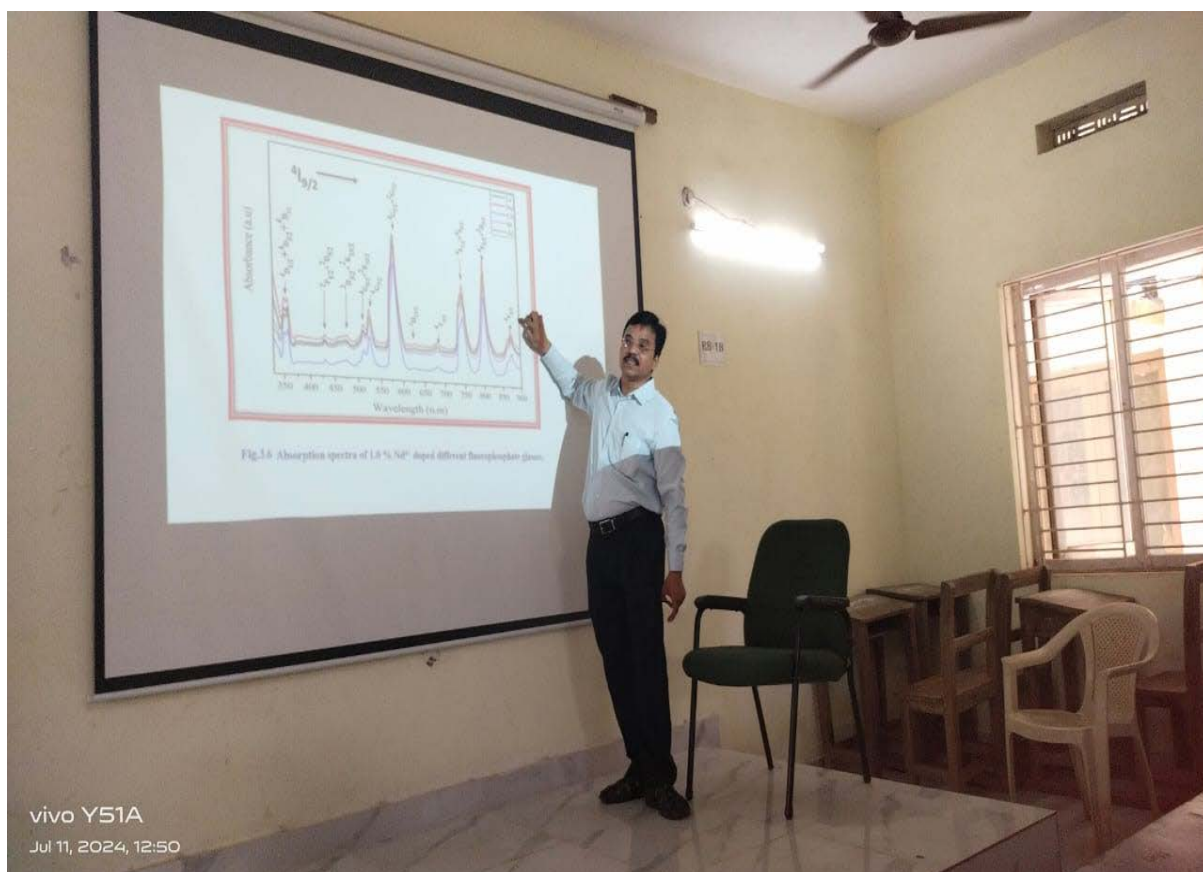
19	17/08/2019	Guest Lecture on Raman Spectra	Dr. M.V.K. Mehar, Lecturer in Physics, PRGC, Kakinada
20	14/12/2018	Guest Lecture on Life of Einstein and his contribution to Physics	Prof D.L. Sastry, Retd Professor, Andhra University, Visakhapatnam

- 1) On 08/08/2024 Department of Physics conducted Guest Lecture on Preparation for Group services, Civil Services and other Government Jobs. Dr K. Venkateswara Rao, Municipal Commissioner, Narasaraopet acted as the Resource Person. The Resource person Explain about different Government and private job opportunities with Degree and P.G Qualifications and explain easy techniques to remember topics in Different subjects.





- 2) On 11/06/2024 Department of Physics conducted Guest Lecture on Career Opportunities in Physics. Prof Y.C. Ratnakaram, SV University, Tirupathi acted as a Resource Person. The resource person mentioned about research opportunities in Physics, how to write a research paper in Physics and Career opportunities in Government, Private sector. Prof Y.C. Ratnakaram explains about different specialisation in Physics.



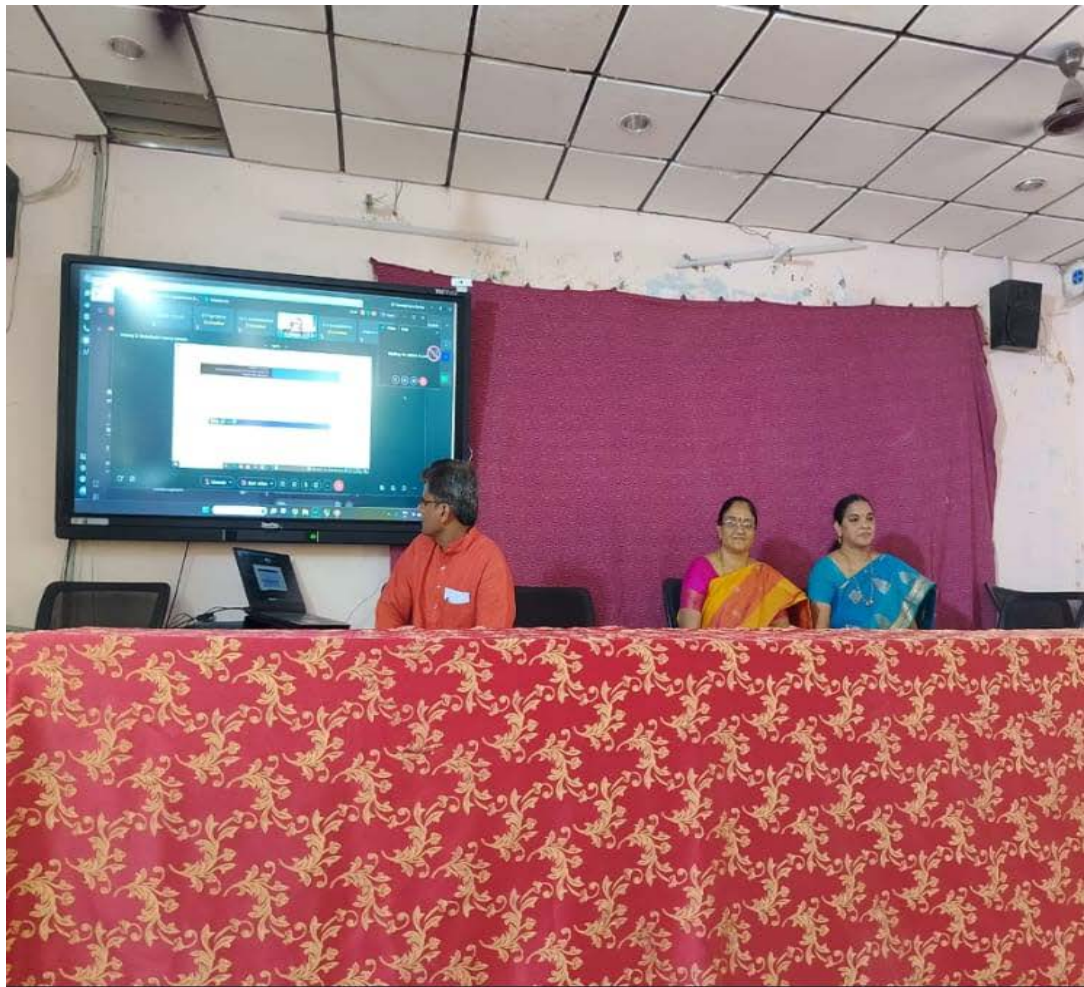
- 3) On 15/12/2023 Department of Physics conducted an On Line Guest Lecture on Mathematical Modelling and Applications to Real life Problems. The Resource Persons are Prof G. P. Rajasekhar, Department of Physics, IIT, Khargpur and Prof GVSR. Dhiksithulu, Department of Physics, JNTU, Kakinada. The resource persons explains Importance of Mathematical modelling and its applications in Different topics in Physics and electronics like motion of rockets, Pendulum, R-C and R-L Circuits and explains mathematical modelling related to the topics.

State or level variables
Sources or sinks
Flow of material / information
Control or rate flow

Population change of species depends on

- current population
- Its reproduction rate
- Its interactions with other species (predation or prey)





Dr. G V S R Deekshitulu, JNTUK

At Government Degree College- 14-12-2023

Malthusian model
Logistic equation
Modeling using system of first order equations
Higher order equations

Free undamped motion
Free damped motion
Driven motion with damping
Resonance

Active Windows

125%

48 of 85

Read aloud Ask Copilot

rigid point and a mass 'm' is attached to the free end. Let the elongation in the spring be 's'. Then the spring exerts a restoration force 'F' opposite to the direction of elongation and proportional to the amount of elongation. i.e., $F = ks$, k is spring constant.

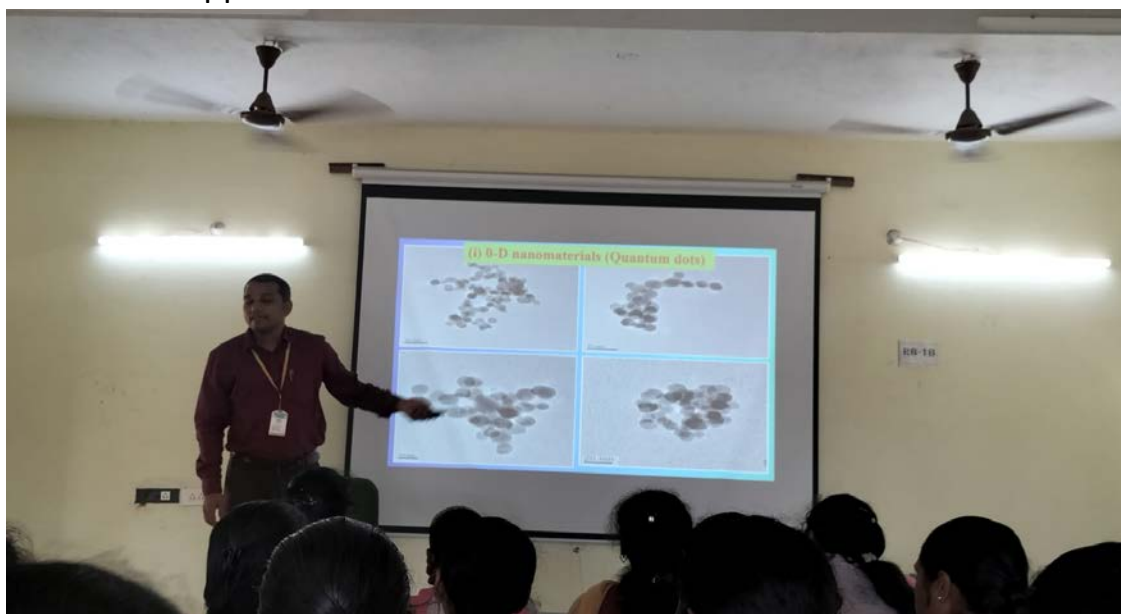
Newton's Second law

The spring is stretched by s and attains a position of equilibrium at which it's weight $W (=mg)$ is balanced by the restoring force $F(=ks)$. i.e., $mg-ks=0$.

4) On 26/09/2023, Department of Physics conducted Guest Lecture On Thermodynamics. The Resource person is Smt S. Maheswari, Lecturer in Physics, V.S .Lakshmi Degree& P.G College, Kakinada. The resource person explains different concepts, Laws and applications in thermodynamics.



5) On 29/08/2023 Department of physics conducted Guest Lecture on Nano Technology. The Resource person is Dr K. Subrahmanyam, Lecturer in Physics, GDC, Jaggampet. The resource person explains about Nano Technology, Nano materials, Classification, Preparation methods and applications of Nano materials.



- 6) On 27/02/2023 Department of Physics conducted Guest Lecture on Global Science for Global wellbeing. Dr K.K.V. Rama Sastry, CEO, Niveditha You tube Channel acts as Resource Person. The Resource person explains importance and themes of Global Science for Global wellbeing.



- 7) On 22/02/2023 Department of Physics conducted Guest Lecture on ISRO-Success story in launching Satellites. Y. Siva prasad, Retd Scientist, ISRO acts as resource Person. The resource person explains orbits, Satellites types, Launching technologies, Cryogenic Engines and ISRO Success stories in Launching different satellites from Past to present.



- 8) On 07/07/2022 Department of Physics conducted Guest Lecture on “Atomic and Molecular Spectra”. G.Sridevi, Lecturer in Physics, PRGC(A) Acts as a Resource Person. Concepts of Atomic and Molecular spectra Different Quantum numbers, Couplings, Spectrum of Electro magnetic Radiations, Emissions, absorptions, Atomic and Molecular Spectroscopy is explained by the Resource person.



- 9) On 22/02/2022 Department of Physics conducted Guest Lecture on Rocket Science. Y. Sivaprasad, Rtd Scientist, ISRO acted as Resource person. The resource person explains about different topics in the Astro physics , Aerospace Engineering , History and Technologies involved in Rocket Science.



10) On 10/02/2022 Department of Physics conducted Guest Lecture on “Thermodynamics & Carnot Cycle”. G. JayaDev, Lecturer in Physics, PRGC(A), Kakinada acted as a Resource person. Different process involved in thermodynamics, Carnot’s Engine, Carnot’s Cycle and applications of Thermodynamics are explained by the Resource person.



11) On 06/01/2022 Department of Physics conducted Guest Lecture on “Applications of Nuclear Physics”. The Resource person is Prof D.L. Sastry, Retd Professor, Andra University, Visakhapatnam. The resource person explains different theories, Concepts, applications of Nuclear physics and about Radio Active materials.



12) On 09/02/2021 Department of Physics conducted an online Guest Lecture on “Self -management for Career Planning”. Prof Y.V.S.S Varaprasad, Professor of Commerce management, Gitam University, Vizag Acts as a Resource Person. Self -management strategies, skills and strategic career self-management is explained by the Resource person.



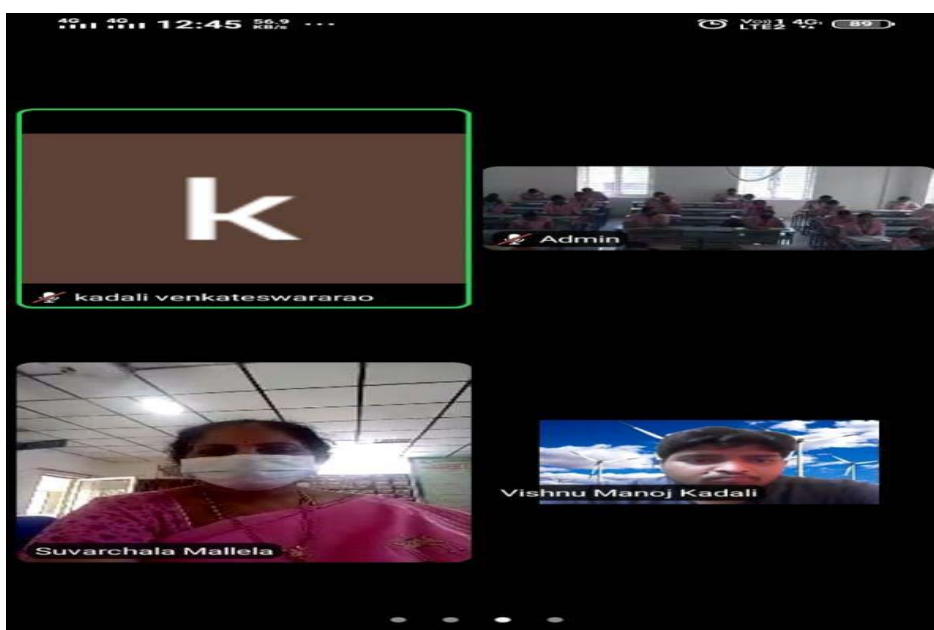
13) On 18/12/2021 Department of Physics conducted an Guest Lecture on Importance of National conservation day, Effect of social media, Addiction of Students to TV, Internet. The Resource person is Dr K. K. V. Rama Sastry Nivedita You Tube channel acted as a Resource person. The resource explains and gave suggestions related to addiction to social media, TV, Internet in students, how to utilise technology and limitations, Threats of using Social media and internet.



14) On 18/12/2021 Department of Physics conducted an Guest Lecture on Practice of Physics and its principles to control harmful and destructive Effects of fire and smoke. The Resource person is Dr K. K. V. Rama Sastry Nivedita, You Tube channel. The resource person explains about different Concepts related to heat, fire and technologies, apparatus and methods used Fire control and Fire Extinguishers.

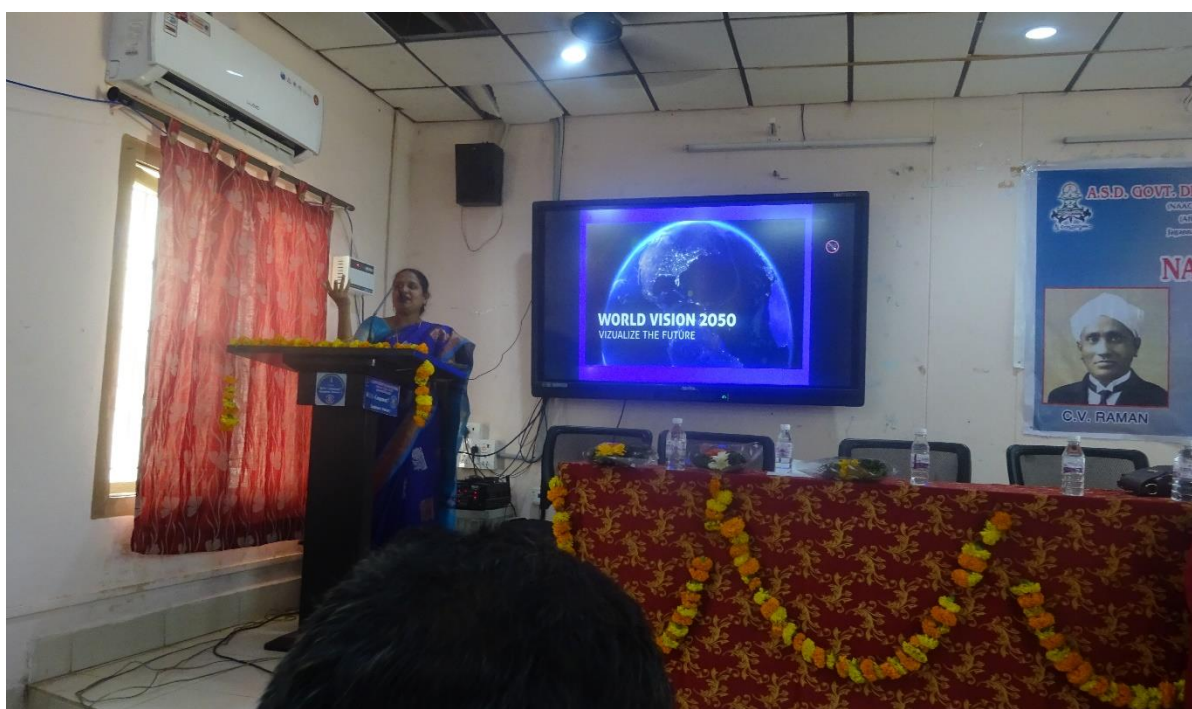


15) On 14/12/2020 The Department of Physics conducted Virtual Lecture on “Basics of Energy conservation and Future of Renewables”. The Resource person is K. Vishnu Manoj, DSCM, SCMB Corp, Green Infra limited, Chennai. Need, methods of Energy Conservation, Need of Renewable energies, Classification, future, Applications of Renewable energies are explained By the Resource person.





16) On 28/02/2020, The Department of Physics conducted Guest Lecture on “Women in Science”. Dr. P.Jyothi, Lecturer in Physics acts as a Resource Person. Achievements of women scientists in Science and technology and their contribution to Technology is explained by the Resource person.



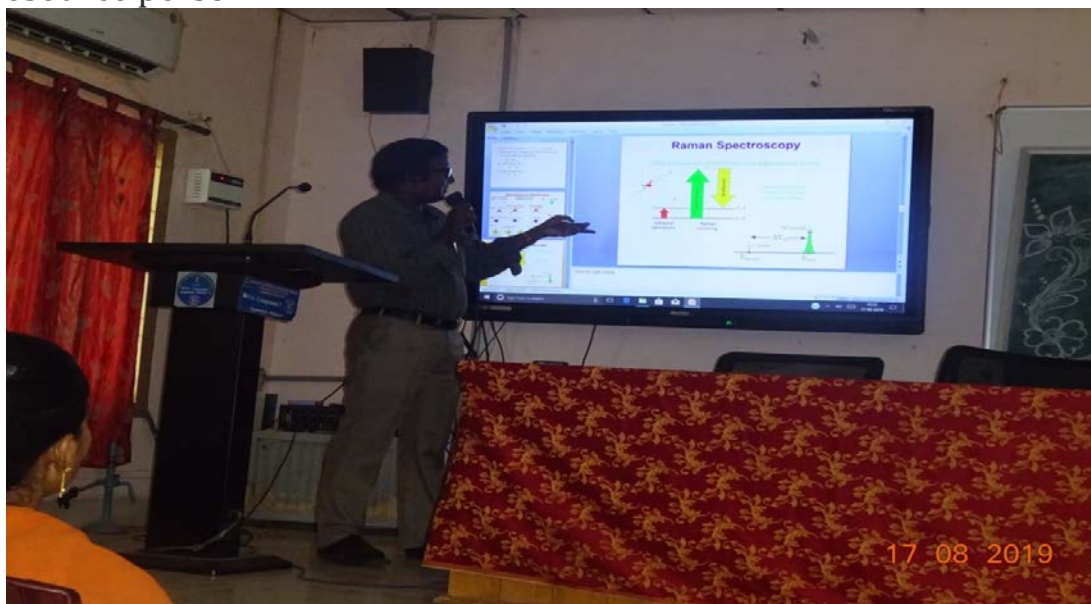
17) On 18/12/2019 Department of Physics conducted Guest Lecture on Waves and Oscillations. Dr. S.V.G.V.S. Prasad, Lecturer in Physics, Ideal college, Kakinada acts as Resource person. Different topics in waves and oscillations in Stretched strings, Vibrating bars and different types of Oscillations are explained by the Resource person.



18) 21/08/2019 Department of Physics conducted Guest lecture on "CHANDRAYAAN-2". The Resource person is Y. Siva prasad, Retd. Scientist, ISRO. Different concepts and technologies related to Space Physics, Orbiters, Landers, movers, Lunar missions and stages and journey of the CHANDRAYAAN-2 are explained by the Resource person.



19) On 17/08/2019 Department of Physics conducted Guest lecture on "Raman Spectra". The resource person is Dr M.V.K. Mekhar, Lecturer in Physics, PRGC, Kakinada. Concept, Significance, Principles, applications and Raman Spectroscopy is explained by the Resource person.



20) On 14/12/2018 Department of Physics conducted Guest lecture on Life of Einstein and his contribution to Physics. The Resource person is Prof D.L. Sastry, Retd Professor, Andra University, Visakhapatnam. The Life history of Einstein, Theories, inventions and contributions to Physics explained by the Resource person.

