

**SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)
SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH (2025-2026)**



DEPARTMENT OF PHYSICS

DEPARTMENTAL ACTIVITIES

SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)

SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

SLNO	DATE	NAME OF THE ACTIVITY
1.	20.07.2025	NATIONAL MOON DAY
2.	30.07.2025	FIELD TRIP -1
3.	23.08.2025	NATIONAL SPACE DAY
4.	07.10.2025	GUEST LECTURE ON ELECTRONIC AND INSTRUMENTATIONS
5.	02.11.2025	FIELD TRIP -2
6.	08.12.2025	GUEST LECTURE ON OPTICS
7.	14.12.2025	NATIONAL ENERGY CONSERVATION DAY
8.	24.12.2025	FIELD TRIP -3
9.	03.01.2026	GUEST LECTURE ON APPLICATIONS OF ELECTRICITY AND ELECTRONICS
10.	28.02.2026	NATIONAL SCIENCE DAY
11	28.02.2026	GUEST LECTURER ON AWARNNESS ON OPPORTUNITIES IN ISRO

**SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)
SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH**

DEPARTMENT OF PHYSICS

REPORT ON INTERNATIONAL MOON DAY

The department of Physics at SVSSC Government Degree College in Sullurpet, Tirupati District, celebrated the first International Moon Day on July 20th to commemorate the day man first walked on the moon in 1969. According to NASA, the moon landing was "...the single greatest technological achievement of all time."

Dr. S.L.B. Sankara Sarma, the college's principal, welcomed the teachers and students, emphasising the importance of focusing on International Moon Day. In his speech, he emphasised humanity's achievements.

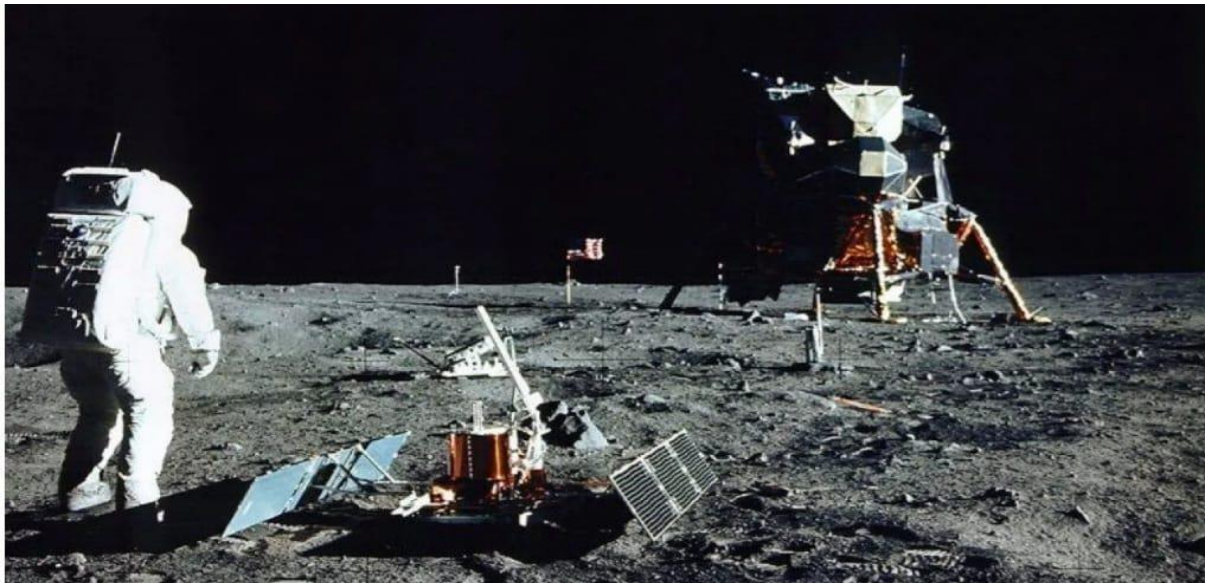
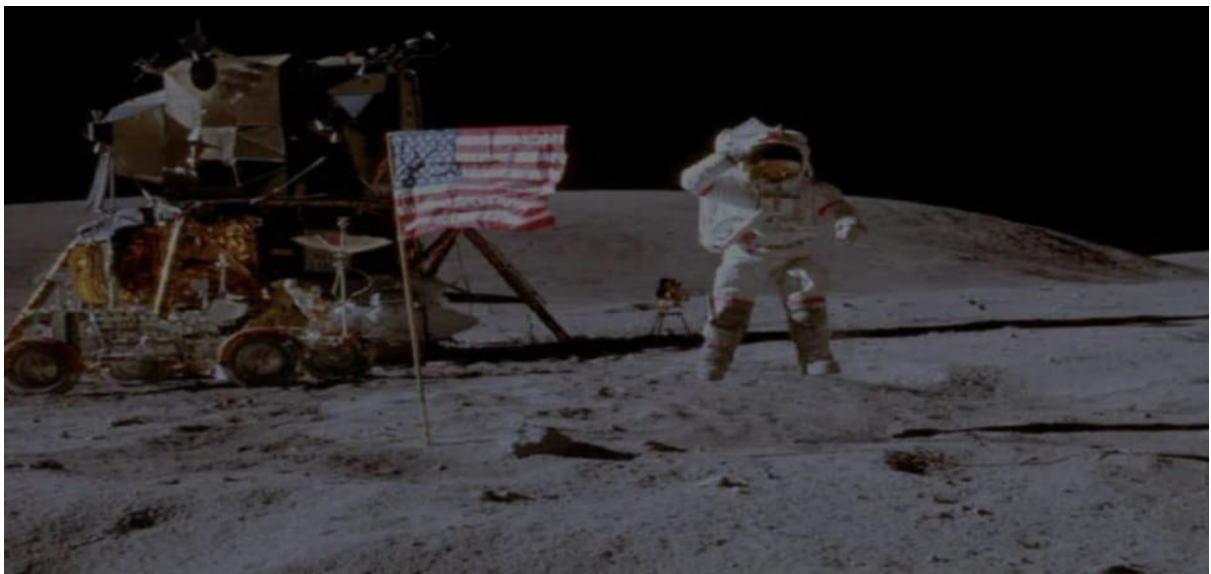
Dr. J.Subrahmanyam, Professor and Head of the Department of Physics, explained the history of International Moon Day, stating that on July 20, 1969, Apollo 11 carried the first humans to the moon. Neil Armstrong, an American, stepped onto the lunar surface six hours after landing. He spent two and a half hours outside the spacecraft. Buzz Aldrin quickly followed, stepping onto the lunar surface. After joining Armstrong, the two men collected 47.5 pounds of lunar material. Their samples would be returned to Earth for analysis. A third astronaut sat in the command module. Michael Collins, the pilot, remained alone in space until Armstrong and Aldrin returned. Millions of Americans watched the mission from Earth. The live broadcasts were seen on televisions all over the world. The astronauts were watched by people all over the world. As a result, everyone witnessed Armstrong's first steps onto the moon's surface, which he described as "one small step for a man, one giant leap for mankind."

Dr. C.Salma, Professor of Physics, proposed a vote of thanks before presenting prizes to the winners of the essay writing and elocution competitions on Moon tourism in the future. The programme is attended by all teaching staff as well as first and second year B.Sc students.

THE NATIONAL



INTERNATIONAL MOON DAY



**SVSSC GOVERNMENT DEGREE COLLEGE(A)
SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH
DEPARTMENT OF PHYSICS**

FIELD TRIP 1

The students of the Physics Department, along with the faculty members of SVSSC Government Degree College, Sullurpet, visited the Satish Dhawan Space Centre (SDSC), Sriharikota, in 30th July 2025 to witness the launch of the NASA–ISRO Synthetic Aperture Radar (NISAR) satellite.

During the visit, the students had the opportunity to observe the live launch of the NISAR satellite, a joint Earth observation mission developed collaboratively by the National Aeronautics and Space Administration (NASA) and the Indian Space Research Organization (ISRO). The satellite was launched from the Satish Dhawan Space Centre, Sriharikota, at 5:40 p.m. (IST).

A total of 40 students from I, II, III, and IV Year B.Sc. Honours Physics and B.Sc. Physics Honours with Research, along with the faculty members of the Department of Physics, attended the launch event. The launch vehicle successfully carried the satellite into its designated orbit. NISAR Mission

The NASA–ISRO Synthetic Aperture Radar (NISAR) mission is an advanced Earth observation satellite designed to monitor changes in the Earth's surface using dual-frequency radar technology (L-band and S-band). The satellite will help scientists study ecosystem disturbances, glacier movement, earthquakes, volcanic activity, land deformation, and climate change.

The NISAR mission represents an important milestone in international scientific collaboration, combining the technological expertise of NASA and ISRO. The satellite will provide high-resolution data that will support research in environmental monitoring, disaster management, and sustainable development.

The field visit provided students with a valuable opportunity to observe a real-time satellite launch and understand the scientific and technological aspects of modern space

Faculty members guided the students throughout the visit and explained the importance of satellite technology and space research.

The field visit was successfully conducted with active participation from students and faculty members, making the experience both informative and inspiring for the students of the Department of Physics.





SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)
SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH
DEPARTMENT OF PHYSICS
NATIONAL SPACE DAY

On the occasion of National Space Day 2025, the Department of Physics at SVSSC Government Degree College, Sullurpeta, organized an informative and engaging program to create awareness about the importance of space science and technology.

The program was graced by the Chief Guest, Dr. S.L.B. Sankara Sharma, Principal of the college, who emphasized the significance of space research and its impact on modern life. He encouraged students to develop scientific curiosity and pursue careers in space-related fields.

Dr. J. Subrahmanyam and Dr. C. Salma, Professors of Physics, delivered insightful lectures on the importance of space exploration, recent advancements, and India's achievements in the space sector. They highlighted how space technology contributes to communication, weather forecasting, disaster management, and national development.

Students actively and enthusiastically participated in the program, making it a successful and enriching event. The program concluded with an interactive session, inspiring students to gain deeper knowledge in the field of science.





SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)

SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

REPORT ON GUEST LECTURE ON ELECTONIC INSTRUMENTATIONS

A guest lecture on Electronic Instrumentation *was organized* at SVSSC Government Degree College, Sullurpeta. The session was delivered by **Smt. T. Mounika**, Guest Lecturer in Physics.

During the lecture, Smt. Mounika provided valuable insights into the fundamentals of electronic instrumentation, explaining the working principles of various electronic devices and measurement techniques. She highlighted the importance of instruments such as oscilloscopes, multimeters, and signal generators in scientific research and practical applications.

The session was highly informative and helped students understand the role of electronic instruments in physics experiments and modern technology. Students actively participated and clarified their doubts through interaction.

The program was attended by faculty members and students of the Physics Department. It concluded with a vote of thanks, expressing gratitude to the guest for her valuable contribution.





SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)

SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

FIELD TRIP -2

The students of the Department of Physics, along with the faculty members of SVSSC Government Degree College (A), Sullurpet, visited the Indian Space Research Organization (ISRO) launch facility at Satish Dhawan Space Centre (SDSC), Sriharikota, on 2 November 2025 to witness the launch of the LVM3 launch vehicle, popularly known as the “Bahubali Rocket.”

During the visit, the students had the opportunity to observe the live launch of the LVM3 rocket, India’s most powerful heavy-lift launch vehicle developed by the Indian Space Research Organization (ISRO). The launch vehicle successfully lifted off from the launch pad carrying its payload into space and placed it into the intended orbit.

LVM3 – Bahubali Rocket

The Launch Vehicle Mark-3 (LVM3), popularly called the Bahubali Rocket, is the most powerful launch vehicle developed by ISRO. It is designed to carry heavy satellites and advanced payloads into Geosynchronous Transfer Orbit (GTO) and Low Earth Orbit (LEO). The rocket uses solid strap-on boosters, a liquid core stage, and a cryogenic upper stage, enabling it to launch heavy payloads for communication, navigation, and scientific missions.

A total of 40 students from I, II, III, and IV Year B.Sc. Physics Honours and B.Sc. Physics Honours with Research, along with the faculty members of the Department of Physics, attended the launch event. The visit provided students with a valuable opportunity to witness a real-time rocket launch and gain practical knowledge about rocket propulsion, launch vehicle engineering, and satellite missions.

The field trip enabled students to connect their theoretical knowledge of physics and space science with real-world technological applications. Faculty members guided the students throughout the visit and explained the scientific and technological aspects of the launch vehicle and mission.

The field visit was successfully conducted with the active participation of students and faculty members, making the experience both educational and inspiring for the students of the Department of Physics.



SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)

SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

REPORT OF THE GUEST LECTURE

GUEST LECTURE ON DIFFRACTION

The Department of Physics, SVSSC Government Degree College (A), Sullurpet, organized a guest lecture for the students of B.Sc. Physics Honors II Year. The objective of the session was to provide in-depth conceptual understanding of one of the fundamental experiments in wave optics, namely Young's Double Slit Experiment.

The guest speaker for the session was Dr. G. S. Harish, who is working as a Lecturer in Physics at the Government Polytechnic College, Tirupati.

At the beginning of the session, the biodata of the guest speaker was formally presented by Dr. J. Subrahmanyam (Head of the Department), highlighting his academic qualifications and teaching experience.

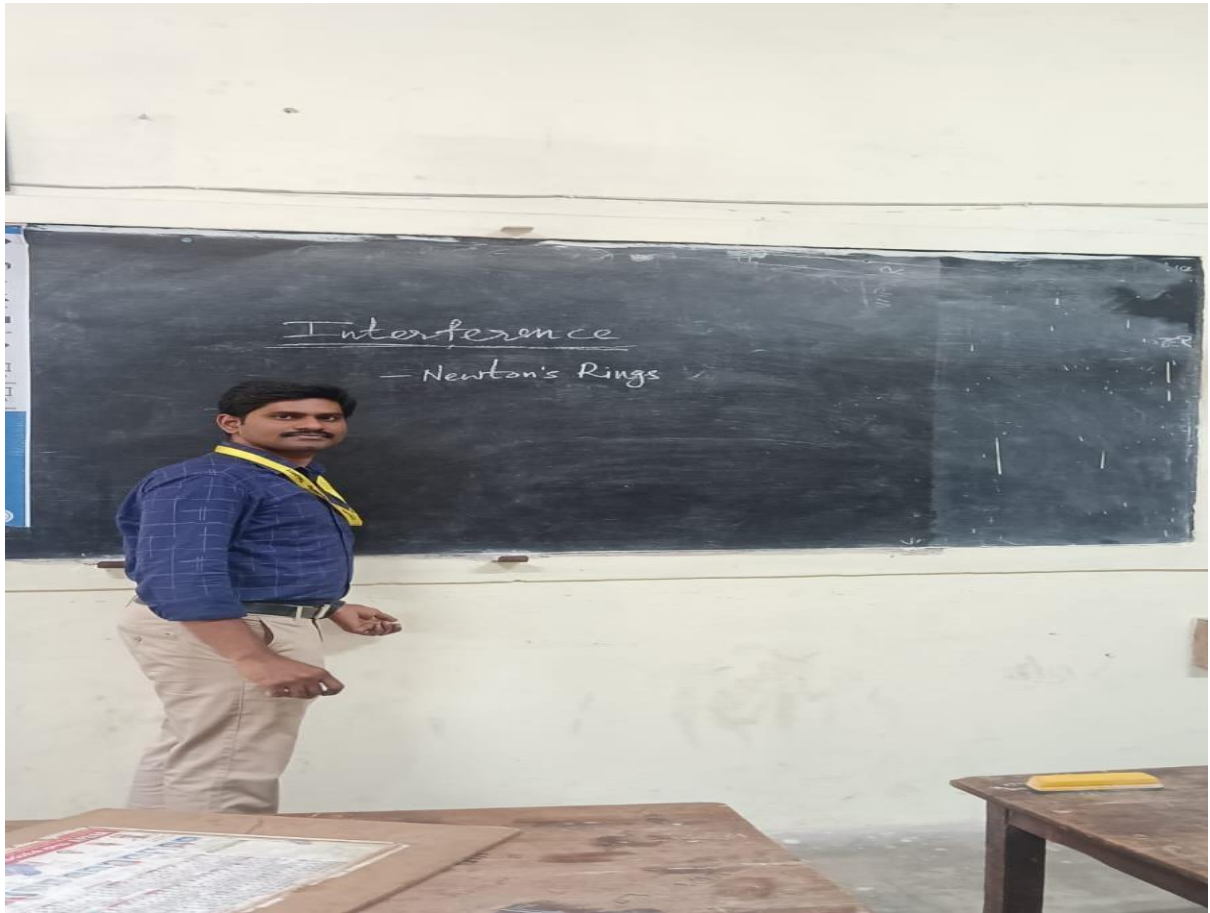
Dr. Harish delivered an informative and engaging lecture on diffraction, explaining fundamental concepts such as the nature of wave propagation, interference, and diffraction patterns. He elaborated on different types of diffraction, including single-slit and double-slit diffraction, and discussed their practical applications in optics and modern technology.

The lecture helped students gain a deeper conceptual understanding of diffraction phenomena, including the formation of fringes and the role of wavelength and slit width. Real-life examples and illustrations were used to make the concepts clearer and more relatable.

The session was interactive, with students actively participating and clarifying their doubts regarding the topic. The lecture proved to be highly beneficial in enhancing their academic knowledge and interest in wave optics.

The program was organized under the guidance of Dr. J. Subrahmanyam (HOD), along with faculty members Dr. C. Salma and Kum. N. Yagalakshmi, who ensured the smooth conduct of the session.

The session concluded with a vote of thanks by Dr. C. Salma, expressing gratitude to the guest speaker for his valuable contribution and to the students for their active participation.



SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)

SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

REPORT OF THE NATIONAL ENERGY CONSERVATION DAY

On December 14, 2025, SVSSC Government Degree College (A), Sullurpet, **observed** National Energy Conservation Day **with the aim of creating awareness among students about the importance of conserving energy and promoting sustainable practices.** The programme was organized by the Department of Physics **with the participation of students and faculty members.**

The theme of the competitions conducted on the occasion was **“Green Transformation: Energy Saving.”** This theme encouraged students to understand the importance of efficient energy usage and environmental protection for a sustainable future.

The Chief Guest and Principal of the College, Dr. S. L. B. Sankara Sarma, **addressed the gathering and emphasized the significance of** National Energy Conservation Day, **which is observed every year on** December 14th in India. **He explained that the observance of this day was initiated in 1991 by the** Ministry of Power **to promote awareness about energy conservation across the country.** In his message, **he highlighted that conserving energy is essential for achieving sustainable development and ensuring a greener and brighter future for the coming generations.**

Dr. J. Subrahmanyam, Head of the Department of Physics, **spoke about the need to reduce unnecessary energy consumption in daily life and encouraged students to adopt energyefficient practices such as minimizing electricity wastage and using renewable energy resources wherever possible.**

Dr. C. Salma, Proferssor in Physics, **explained that energy conservation is the conscious decision and practice of using less energy without affecting productivity and comfort.** She also motivated students to actively participate in spreading awareness about energy conservation within society.

As part of the celebration, Essay Writing and Elocution Competitions **were conducted for the students.** The competitions provided a platform for students to express their ideas and perspectives on energy conservation and sustainable development. Many students actively participated and

presented thoughtful insights on the importance of saving energy for the welfare of society and the environment.

The event concluded with the vote of thanks proposed by the student representatives, expressing gratitude to the Principal, faculty members, participants, and organizers for making the programme a meaningful and successful event.





SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)
SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH
DEPARTMENT OF PHYSICS

Brief Report on Educational Visit to LVM3/M6 Rocket Launch

On 24th December 2025, the students and staff of SVSSC Government Degree College, Sullurpet visited the Indian Space Research Organisation to witness the launch of the LVM3 (M6 mission).

During this educational visit, students had the unique opportunity to observe the rocket launch process and understand the advanced technology involved. They learned about the structure and working of the LVM3 rocket, its stages, fuel systems, and its importance in carrying satellites and missions into space.

The visit also provided insights into the various applications of rockets, including satellite communication, weather forecasting, navigation, and space exploration. Scientists and officials explained the role of ISRO in the development of space technology in India.

Overall, the visit was highly informative and inspiring, enhancing the students' knowledge in space science and motivating them towards careers in science and technology.





SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)

SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

2025-2026

REPORT OF THE GUEST LECTURE

GUEST LECTURE ON APPLICATIONS OF ELECTRICITY AND ELECTRONICS

The Department of Physics, SVSSC Government Degree College (A), Sullurpet, organized a guest lecture for the B.Sc. Physics Honors II Year students with the objective of enhancing their understanding of practical and real-world applications of electricity and electronics.

The invited resource person was Dr. K. Subrahmanyam, who is working as a Lecturer in Physics at Government Degree College Naidupeta. He delivered an insightful lecture on the topic.

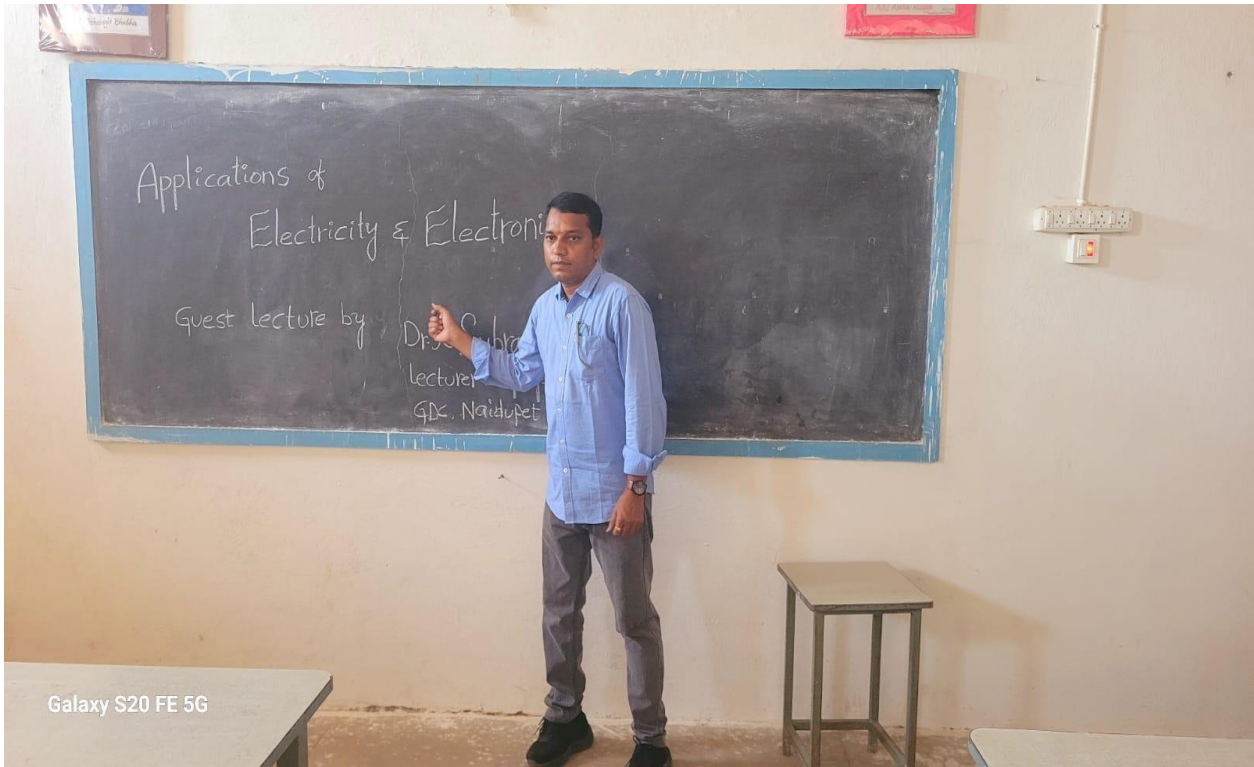
At the beginning of the session, the biodata of the guest speaker was presented by Dr. J. Subrahmanyam, Head of the Department, highlighting his academic achievements, teaching experience, and contributions to the field of Physics.

During the lecture, Dr. Subrahmanyam explained various applications of electricity and electronics in everyday life and modern technological systems. He discussed key concepts such as electronic devices, basic circuits, communication systems, and their applications in industries, healthcare, and information technology. His lecture provided students with a clear understanding of how theoretical knowledge is applied in practical scenarios.

The session was interactive, and students actively participated by asking questions and clarifying their doubts. The lecture significantly helped students in strengthening their conceptual understanding and practical awareness.

The program was conducted under the guidance of Dr. J. Subrahmanyam (HOD), along with faculty members Dr. C. Salma and Kum. N. Yagalakshmi, who coordinated the event successfully.

The session concluded with a vote of thanks delivered by Dr. C. Salma, expressing sincere gratitude to the guest speaker for his valuable and enlightening lecture, and to all participants for making the program a success.



SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)

SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH

DEPARTMENT OF PHYSICS

REPORT ON NATIONAL SCIENCE DAY

On February 28th, the Department of Physics commemorated National Science Day-2026. The day is observed to honour Indian physicist Sir C. V. Raman's Nobel Prize-winning discovery of the Raman Effect.

The Principal, Dr. S.L.B Sankara Sarma, conveyed Science Day wishes to all science students and staff members, underlining our commitment to preserving our collective scientific responsibility and utilising science's power for human growth.

The Chief Guest, Dr. Pravakar ojha, Scientific officer -D, ISRO, emphasized the importance of National Science Day in his message. Dr.J.Subrahmanyam, Professor and Head, Department of Physics, highlighted the theme of the 2026 National Science Day, "Integrated Approach in Science and Technology for a Sustainable Future." Dr C.Salma, Professor of physics Department of physics, highlighted the applications of the Raman Effect, and N.Yaga lakshmi, Guest Lecturer of Physics, discussed Raman's biography before awarding prizes to the winners of the essay writing and elocution competitions. The II B.Sc students organized the programme and proposed the vote of thanks.







SRI V.S. SIVALINGAM CHETTIAR GOVERNMENT DEGREE COLLEGE (A)
SULLURPET, TIRUPATI DISTRICT, ANDHRA PRADESH
DEPARTMENT OF PHYSICS

REPORT OF THE GUEST LECTURE GUEST LECTURE ON CAREER OPPORTUNITIES IN ISRO

The Department of Physics, SVSSC Government Degree College (A), Sullurpet, organized a guest lecture for the students of B.Sc. Physics Honors (I, II, III & IV years). The session aimed to create awareness about career opportunities in the Indian Space Research Organization (ISRO) and to inspire students to pursue careers in space science and technology.

The distinguished guest speaker, Dr. Pravakar Ojha, Scientific Officer 'D' at the Indian Space Research Organization (ISRO), was cordially invited to deliver the lecture.

At the beginning of the session, the biodata of the guest speaker was formally presented by Dr. J. Subrahmanyam, Head of the Department, highlighting his academic background, professional achievements, and contributions to ISRO.

Dr. Ojha delivered an insightful lecture, explaining various opportunities available in ISRO, eligibility criteria, recruitment procedures, and preparation strategies. He emphasized the importance of a strong foundation in Physics and Mathematics and encouraged students to stay focused and committed to their goals.

A total of 60 students actively participated in the session. The lecture was highly interactive, with students engaging in a question-and-answer session, where Dr. Ojha addressed their queries regarding career paths, examinations, and required skill sets.

The program was organized under the guidance of Dr. J. Subrahmanyam (HOD), along with faculty members Dr. C. Salma and Kum. N. Yagalakshmi, who coordinated the event successfully.

The session concluded with a vote of thanks delivered by Dr. C. Salma, who expressed sincere gratitude to the guest speaker for sharing his valuable knowledge and to all participants for their enthusiastic involvement.



