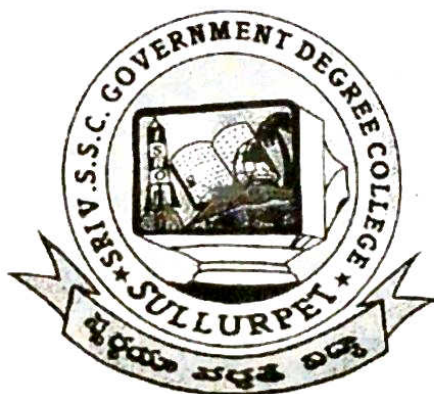


**SRI V.S.SIVALINGAM CHETTIAR
GOVERNMENT DEGREE COLLEGE, (A)
SULLURPETA, TIRUPATI (Dt), ANDHRA PRADESH**

DEPARTMENT OF ZOOLOGY

GUEST LECTURES

2025-2026



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

SULLURPETA, TIRUPATI DISTRICT, ANDHRA PRADESH

AN ISO 9001: 2015 CERTIFIED INSTITUTE

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Report on Guest Lecture on Echinoderms by Dr. K Sivaprasad.

The department of zoology of Sri VSSC Government Degree College, Sullurpeta organized a guest lecture on the topic "Echinoderms" for undergraduate zoology students on Dt: 26.08.2025. The lecture was delivered by Dr. K. Sivaprasad, Associate Professor in Zoology at SKR Government Degree College, Gudur, Tirupati (dt), Andhra pradesh.

The program was conducted with the objective of enhancing students' understanding of the phylum Echinodermata, its diversity, morphology, and ecological importance. Faculty members and students of the Zoology department actively participated in the event.

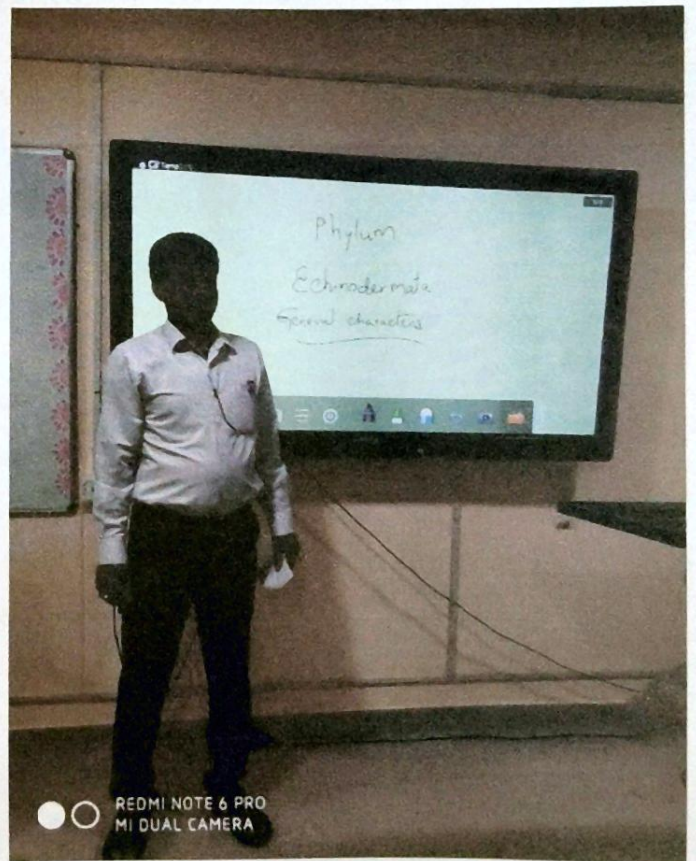
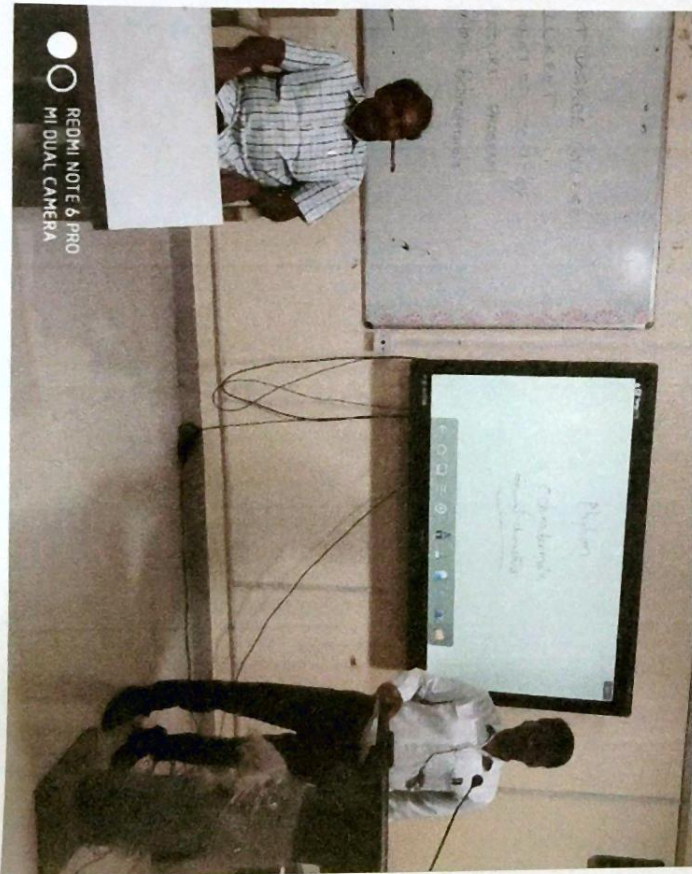
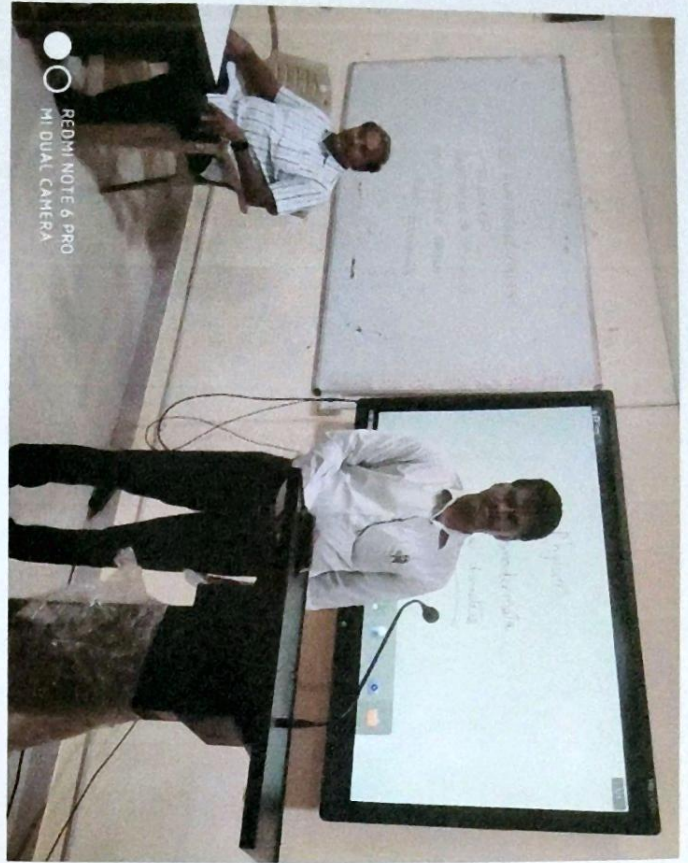
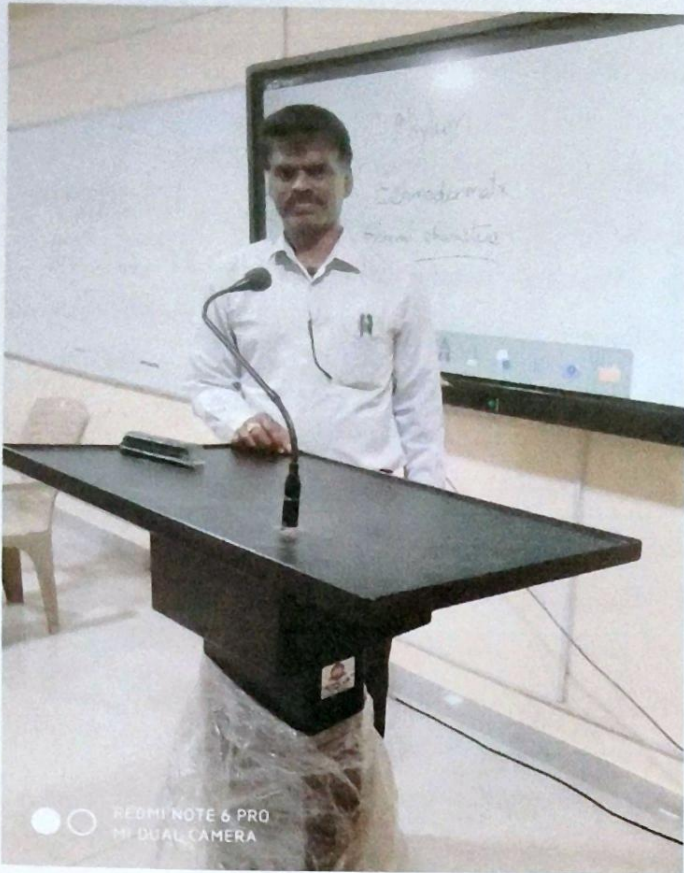
During the lecture, Dr. Sivaprasad explained the unique characteristics of echinoderms, such as radial symmetry, the presence of a water vascular system, and their exclusively marine habitat. He discussed various classes of echinoderms including starfish, sea urchins, brittle stars, sea cucumbers, and crinoids. The speaker highlighted their anatomy, locomotion, feeding mechanisms, and regeneration abilities, emphasizing how these organisms play an important role in maintaining marine ecosystem balance.

He also elaborated on the economic and ecological significance of echinoderms and explained their evolutionary relationship with other deuterostomes. The lecture included visual explanations and real-life examples that helped students better understand the structural and functional adaptations of echinoderms.

Students interacted with the resource person during the question-and-answer session, where Dr. Sivaprasad clarified their doubts and encouraged them to develop interest in marine biology and zoological research.

The guest lecture was highly informative and beneficial for the students. It enriched their academic knowledge and provided deeper insights into the diversity and importance of echinoderms in marine ecosystems. The Department of Zoology expressed gratitude to Dr. Sivaprasad for delivering an engaging and enlightening lecture.

The program concluded with a vote of thanks, acknowledging the valuable contribution of the guest speaker and the efforts of the faculty members in organizing the event successfully.



Report on guest lecture on Metamorphosis by Dr M Ramakrishna.

The Department of Zoology of Sri VSSC Government Degree College (Autonomous) organized a guest lecture on the topic "Metamorphosis" for undergraduate Zoology students on Dt: 18.09.2025. The lecture was delivered by Dr. M. Ramakrishna, Head of the department of zoology is an eminent academician from Sri A S N M Government college (Autonomous), Palakollu, West godavari (dt), Andhra pradesh.

The programme began with a brief introduction of the guest speaker by Sri S. Srinivas, faculty of the Zoology Department. Dr. Ramakrishna was warmly welcomed and appreciated for accepting the invitation to interact with the students.

During the lecture, Dr. Ramakrishna explained the concept of metamorphosis in detail, describing it as a biological process in which an organism undergoes significant physical and structural changes during its life cycle. He discussed different types of metamorphosis observed in animals, particularly in insects and amphibians.

The speaker explained complete metamorphosis (holometabolous development) and incomplete metamorphosis (hemimetabolous development) with suitable examples.

He highlighted the stages involved in the life cycle of insects such as egg, larva, pupa, and adult, and explained how these stages differ in structure and function. The transformation of tadpole into frog was also discussed as a classic example of amphibian metamorphosis. The lecture also emphasized the hormonal regulation of metamorphosis, particularly the role of hormones in controlling growth and developmental changes.

The session was highly interactive, and students actively participated by asking questions related to developmental biology and insect life cycles. Dr. Ramakrishna clarified their doubts and encouraged students to explore research opportunities in zoology and developmental studies.

The lecture was very informative and beneficial for the students as it enhanced their understanding of animal development and life cycle patterns. The programme concluded with a vote of thanks delivered by Sri S Srinivas of the Zoology Department, expressing gratitude to the guest speaker for sharing his valuable knowledge and insights.

Overall, the guest lecture was a successful academic event that enriched the students' knowledge and stimulated their interest in zoological studies.



Report on Guest lecture on Transgenic animals by Dr K Narasimha varma.

The Department of Zoology, Sri VSSC Government Degree College, Sullurpeta, organized a guest lecture on the topic "Transgenic Animals" for the benefit of undergraduate and postgraduate students of Zoology on Dt: 30.10.2025. The programme was conducted with the aim of enhancing students' knowledge about modern developments in biotechnology and genetic engineering.

The guest speaker for the session was Dr. K. Narasimha Varma, Head of the Department of Zoology, S V A Government Degree College, Srikalahasti, Tirupati District, Andhra Pradesh.

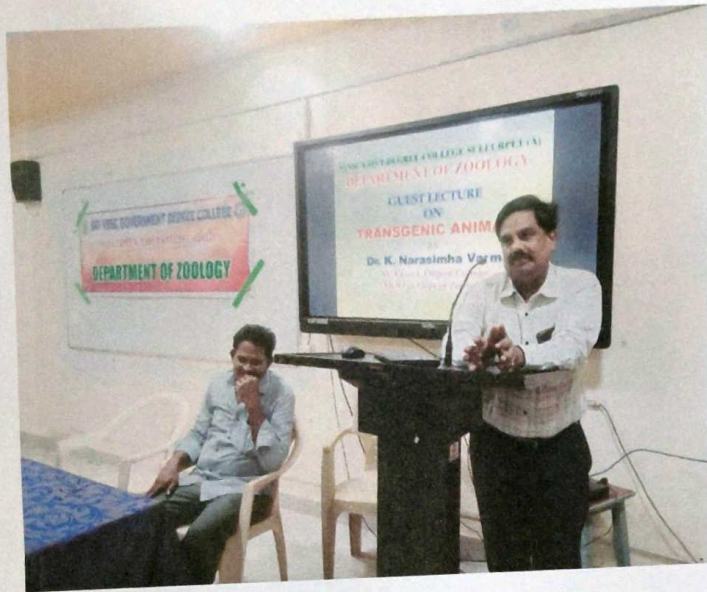
During the lecture, Dr. Narasimha Varma explained the concept of transgenic animals, which are animals whose genetic material has been artificially modified using recombinant DNA technology. He discussed the methods used in creating transgenic animals, including gene transfer techniques such as microinjection, viral vectors, and embryonic stem cell methods. The speaker also highlighted the importance of transgenic animals in scientific research, medicine, agriculture, and pharmaceutical production.

He further elaborated on the applications of transgenic animals in studying gene function, modeling human diseases, producing therapeutic proteins, and improving livestock traits. The lecture also covered ethical considerations, biosafety issues, and regulatory aspects associated with genetic modification.

Students actively participated in the interactive session and clarified their doubts regarding genetic engineering techniques and their practical applications. The lecture was highly informative and helped students understand the significance of biotechnology in modern biological sciences.

The programme concluded with a vote of thanks by the faculty of the Department of Zoology, expressing gratitude to Dr. Narasimha Varma for delivering an enlightening lecture and for sharing his valuable knowledge with the students.

Overall, the guest lecture was very successful and greatly benefited the students by providing them with deeper insights into the field of transgenic technology and its applications in zoological research.





Report on Guest Lecture on “Flight Adaptations in Birds” by Sri K Somasekhar.

The department of zoology, Sri VSSC Government degree college, Sullurpeta, organized a guest lecture on the topic “Flight Adaptations in Birds” on Dt:24.11.2025. The session was delivered by Sri K. Somasekhar, Lecturer in Zoology at the Government degree college, Kuppam, Chittoor district, Andhra Pradesh.

The program was conducted with the objective of enhancing students’ understanding of the structural and physiological adaptations that enable birds to fly efficiently. Faculty members and UG students of the zoology department actively participated in the event.

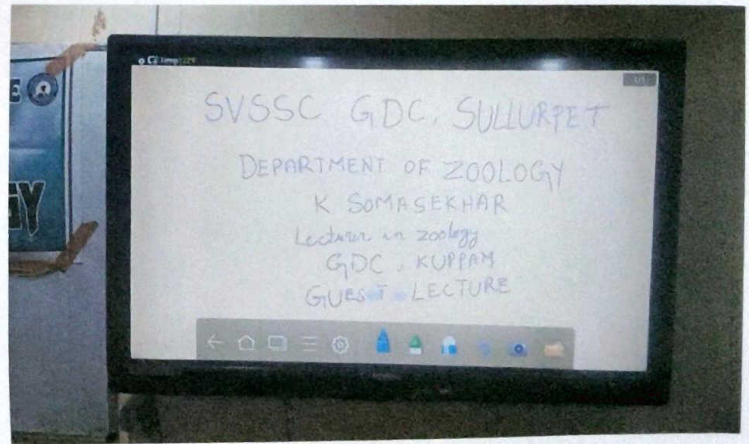
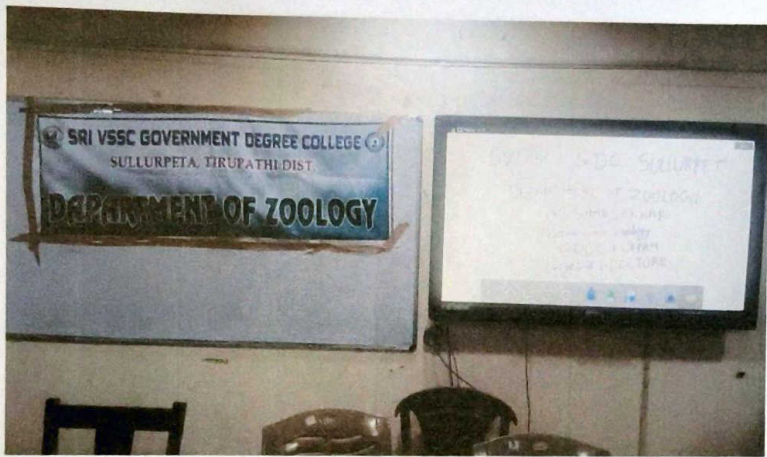
Sri K. Somasekhar began the lecture with an introduction to the evolution of flight in birds and explained how flight is one of the most remarkable adaptations in the animal kingdom. He discussed various morphological adaptations such as streamlined body shape, lightweight bones (pneumatic bones), strong pectoral muscles, and the modification of forelimbs into wings. He also elaborated on the role of feathers in flight, including their structure and function in providing lift and reducing air resistance.

The speaker further explained the physiological adaptations that support flight, such as an efficient respiratory system with air sacs, high metabolic rate, and a strong circulatory system that ensures continuous oxygen supply during flight. He also highlighted the importance of the keeled sternum for the attachment of powerful flight muscles.

In addition, Sri K. Somasekhar described different types of flight observed in birds, including gliding, soaring, flapping, and hovering, with examples from various bird species. The lecture helped students understand how each adaptation contributes to energy-efficient flight and survival in different environments.

The session was highly informative and interactive. Students actively participated in the discussion and clarified their doubts during the question-and-answer session. The lecture provided valuable insights into avian biology and strengthened the students’ conceptual understanding of flight mechanisms in birds.

The program concluded with a vote of thanks by Sri S Srinivas, faculty of the department of zoology, expressing sincere gratitude to Sri K. Somasekhar for his enlightening lecture and valuable contribution to the academic enrichment of the students.





Report on Guest Lecture on “Fertilization” by Dr V Gurumurthy.

The Department of Zoology at Sri VSSC Government Degree College organized a guest lecture on the topic “Fertilization” for Zoology students on Dt: 03.01.2026. The lecture was delivered by Dr V. Gurumurthy, Head of the department of zoology at Government degree college, Madanapalli, Annamayya (dt), Andhra pradesh.

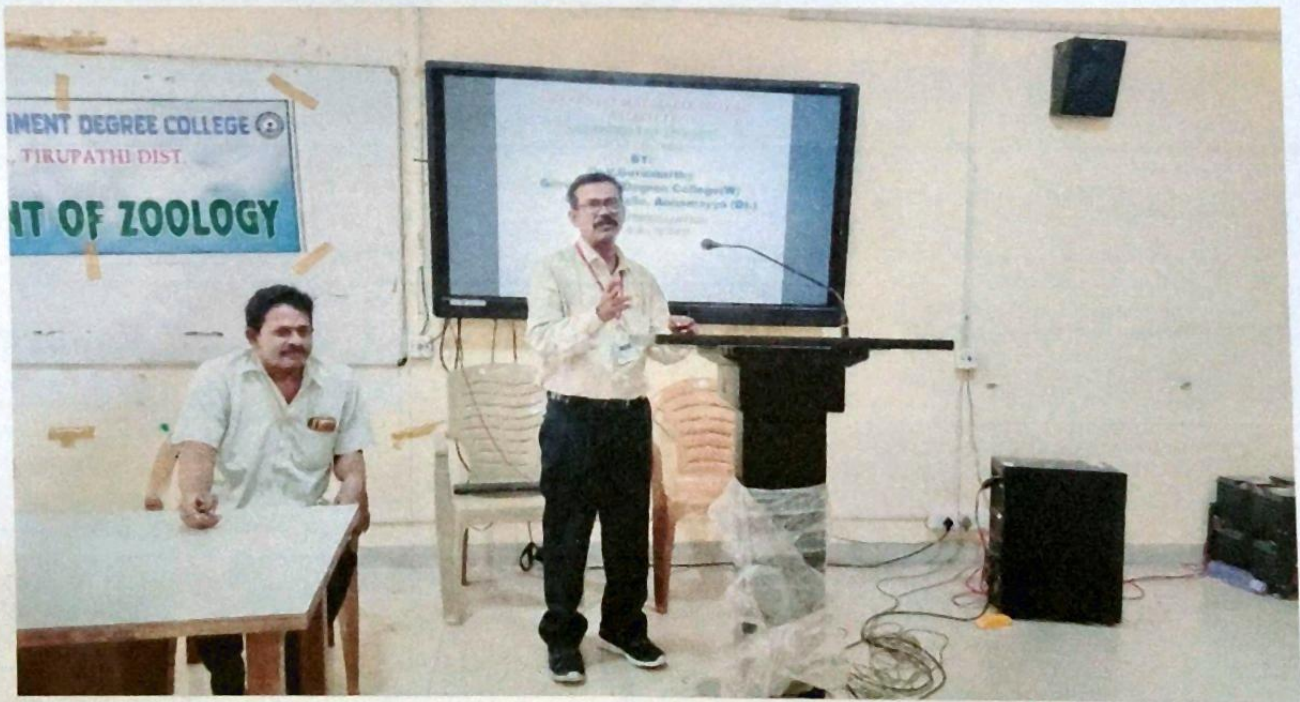
The program was conducted with the objective of enhancing students’ understanding of the fundamental biological process of fertilization and its importance in reproduction and development. Faculty members and students of the Zoology department attended the lecture with great enthusiasm.

During the session, Dr. V. Gurumurthy explained the concept of fertilization, describing it as the fusion of male and female gametes to form a zygote, which marks the beginning of a new organism. He elaborated on different types of fertilization such as external fertilization seen in aquatic organisms and internal fertilization common in reptiles, birds, and mammals.

The speaker also discussed the steps involved in the fertilization process, including sperm activation, recognition of the egg, penetration of the egg membranes, fusion of gametic nuclei, and the formation of the zygote. He highlighted the importance of fertilization in maintaining genetic diversity and ensuring the continuity of species. The lecture also covered the role of fertilization in embryonic development and briefly introduced modern reproductive techniques.

Students actively participated in the interactive session and clarified their doubts regarding reproductive biology and developmental processes. The lecture greatly enriched the students’ knowledge and provided valuable insights into the biological mechanisms involved in fertilization.

The program concluded with a vote of thanks delivered by Sri S Srinivas, faculty of the Department of Zoology, expressing gratitude to Dr. V. Gurumurthy for his informative and engaging lecture. The event was highly beneficial for the students and contributed to their academic enrichment.



Report on Guest Lecture on “Poultry Housing Systems” by Dr S V Nagendra prasad

The department of zoology, Sri VSSC Government degree college, Sullurpeta, organized a guest lecture on “Poultry Housing Systems” to enhance the knowledge of students in the field of animal husbandry and poultry management on Dt: 24.01.2026. The lecture was delivered by Dr. S. V. Nagendra prasad, lecturer in zoology, D. K. Government college (W), Nellore, Andhra pradesh.

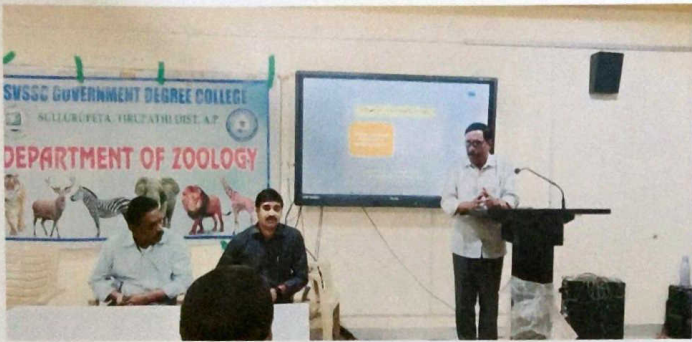
The program began with a brief introduction of the resource person by the faculty of the Department of Zoology. Dr. S. V. Nagendra Prasad shared his expertise and provided valuable insights into the importance of proper housing systems in poultry farming. He explained that suitable housing plays a vital role in maintaining the health, productivity, and welfare of poultry birds.

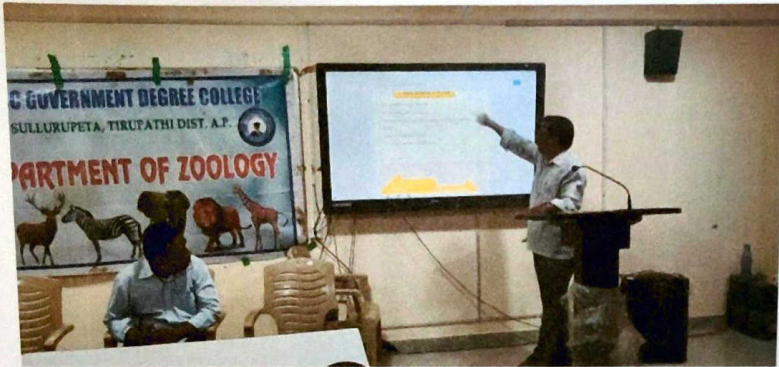
During the lecture, the speaker discussed various types of poultry housing systems, including the free-range system, semi-intensive system, deep litter system, and cage system. He explained the advantages and limitations of each system and highlighted the importance of proper ventilation, lighting, sanitation, and protection from predators and adverse weather conditions. The speaker also emphasized how scientific housing methods help in improving egg production, growth rate, and overall management of poultry farms.

Dr. Nagendra Prasad further discussed the role of modern poultry housing techniques and management practices in commercial poultry farming. He encouraged students to explore poultry farming as a potential source of self-employment and entrepreneurship, especially in rural areas.

The lecture was highly informative and interactive. Students actively participated in the discussion and clarified their doubts during the question-and-answer session. The session helped students gain a better understanding of poultry housing systems and their practical applications in the field of zoology and agriculture.

The program concluded with a vote of thanks delivered by Sri S Srinivas, faculty member of the Department of Zoology, expressing gratitude to Dr. S. V. Nagendra prasad for his valuable lecture and to all the participants for their active involvement. The department of zoology expressed its commitment to organizing more such academic programs in the future for the benefit of students.





Report on Guest Lecture on “Biodiversity Hotspots” by Dr M Suseela.

The department of zoology, Sri VSSC Government degree college(Autonomous), organized a guest lecture on the topic “Biodiversity Hotspots” for the postgraduate students of zoology on Dt: 06.02.2026. The lecture was delivered by Dr. M. Suseela, Assistant professor in zoology at VSU PG College, Kavali, Nellore (dt), Andhra pradesh.

The programme was conducted with the objective of creating awareness among students about the importance of biodiversity conservation and the concept of biodiversity hotspots across the world. During the lecture, Dr. M. Suseela explained the meaning and significance of biodiversity hotspots, emphasizing that these are regions rich in endemic species but highly threatened due to human activities. She highlighted the criteria used to identify biodiversity hotspots and discussed their ecological importance in maintaining global biodiversity.

Dr. Suseela elaborated on the major biodiversity hotspots of the world and gave special emphasis to the hotspots found in India such as the Western Ghats, Eastern Himalayas, Indo-Burma region, and Sundaland. She explained their unique flora and fauna, ecological value, and the urgent need for conservation efforts to protect these fragile ecosystems.

The speaker also discussed the various threats to biodiversity including habitat destruction, climate change, pollution, and overexploitation of natural resources. She stressed the role of conservation strategies, protected areas, sustainable development, and community participation in preserving biodiversity.

The lecture was highly informative and interactive. Postgraduate students actively participated in the session and clarified their doubts regarding biodiversity conservation and hotspot identification. The programme enhanced the students’ understanding of ecological diversity and the importance of protecting natural resources for future generations.

The department of zoology expressed its sincere gratitude to Dr. M. Suseela for delivering an enlightening lecture and sharing her valuable knowledge with the students. The session concluded with a vote of thanks by Sri S Srinivas, faculty of the department of zoology.

Report on guest lecture on “Energy Flow in an Ecosystem” by Dr M Suseela.

The department of zoology, Sri VSSC Government degree college (Autonomous), Sullurpeta, Tirupati district, Andhra Pradesh, organized a guest lecture for postgraduate students on the topic “Energy Flow in an Ecosystem” on Dt:28.03.2026. The lecture was delivered by Dr. M. Suseela, Assistant professor and head of the department in zoology, VSU PG college, Kavali, Nellore district, Andhra Pradesh.

The programme was conducted with the objective of enhancing the understanding of postgraduate students about ecological processes and the movement of energy within ecosystems. The session was attended by PG Zoology students and faculty members of the department.

During her lecture, Dr. M. Suseela explained the concept of ecosystem structure and the importance of energy flow in maintaining ecological balance. She elaborated on the trophic levels, including producers, consumers, and decomposers, and described how energy is transferred from one level to another through food chains and food webs. She also discussed the laws of thermodynamics in relation to energy transfer and emphasized that energy flow in an ecosystem is always unidirectional, moving from the sun to producers and then through various consumer levels.

The speaker further highlighted the 10% law of energy transfer, explaining how only a small fraction of energy is passed to the next trophic level while the rest is lost as heat during metabolic activities. She also illustrated different ecological pyramids, particularly the pyramid of energy, to help students understand the efficiency of energy transfer in ecosystems.

Dr. M. Suseela enriched the lecture with practical examples from natural ecosystems and discussed the significance of energy flow in maintaining biodiversity and ecological stability. The interactive session encouraged students to ask questions and clarify their doubts regarding ecosystem functioning.

The programme concluded with a vote of thanks by Sri S Srinivas, faculty of the department of zoology, expressing sincere gratitude to Dr. M. Suseela for her valuable and informative lecture. The session was highly beneficial for postgraduate students, enhancing their knowledge and understanding of ecological principles.



