VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be University)
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Department of Agricultural and Horticulatural Sciences

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VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY AND RESEARCH, VADLAMUDI
DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES
Cultivating Expertise: Hands-On Learning in Crop Improvement and Seed Technology

Objectives:
The field visits aimed to provide B.Sc. (Hons.) Agriculture students with practical exposure and hands-on experience in various aspects of crop improvement and seed technology. The specific objectives for each visit were designed to align with the relevant courses, focusing on floral biology, emasculation techniques, detasseling, and principles of seed technology.

1. Field Visit to AHS Farm (LARA GREEN)
July 4, 2022:
The objectives of this visit were centered around enhancing students' understanding of floral biology and emasculation techniques in crops such as chilli, tomato, and brinjal.
Outcomes:
Students actively engaged in practical sessions, gaining hands-on experience in floral biology and emasculation techniques. The visit successfully bridged the gap between theoretical knowledge and practical application, allowing students to apply crop improvement concepts in real-world scenarios.

2. Field Visit to AHS Farm (LARA GREEN)
July 7, 2022:
The objectives of the second visit was focusing on floral biology and emasculation techniques, particularly detasseling, in maize crops.
Outcomes:
Students actively participated in detasseling activities, gaining insights into the specifics of the process. The hands-on experience enhanced their understanding of maize crop improvement, allowing them to witness the practical application of theoretical concepts.

3. Field Visit to Farmer's Field, Vinjanampadu Village, Guntur
July 11, 2022:
The objectives of the third visit were associated with the course 22GPBR 314: Principles of Seed Technology. The visit aimed to expose students to different seed production practices in crops such as Bajra, Paddy, Black gram, and tomato.
Outcomes:
Students observed and analyzed seed production practices in various crops during the visit to the farmer's field. This practical exposure provided valuable insights into the principles of seed technology and the nuances of seed production.

Conclusion:

The series of field visits collectively enriched the practical knowledge of B.Sc. (Hons.) Agriculture students, aligning with the objectives of the respective courses. The hands-on experiences gained during these visits are integral to preparing students for their future roles as adept professionals in the field of agriculture. Overall, the field visits contributed significantly to the holistic education of the students, offering a well-rounded understanding of crop improvement and seed technology in real-world agricultural settings.

02-12-2024

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Vadlamudi - 522 213.

Department of Agricultural and Horticulatural Sciences

Hands on Learning in Crop Imporvement and Seed Technology

List of students participated

S.No.	Regd. No.	S.No.	Regd. No.
1	221FW01055	26	221FW01086
2	221FW01056	27	221FW01087
3	221FW01057	28	221FW01088
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23	221FW01083	48	221FW01112
24	221FW01084	49	221FW01114
25	221FW01085	50	221FW01115

Signature of the Co-ordinator

VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY AND RESEARCH, VADLAMUDI
DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES
"Exploring Narakoduru: Unveiling Insights into Vegetable Cultivation and Marketing"

Introduction:

The Exposure Visit to Narakoduru, conducted on August 10th, 2023, was a one-day immersive experience designed to provide participants with practical insights into the agricultural ecosystem. The visit focused on key locations, including the Narakoduru Vegetable Market, local farmers' fields engaged in vegetable cultivation, and a vegetable nursery.

Objectives:

The single-day exposure visit effectively met its objectives by offering participants a condensed yet comprehensive understanding of the agricultural supply chain, emphasizing the practical aspects of vegetable production, marketing, and nursery management. The program aimed to bridge the gap between theoretical knowledge and hands-on experiences within a limited timeframe.

Outcomes:

Participants gained valuable exposure to the various stages of vegetable production and marketing during the single-day visit. The experience at the Narakoduru Vegetable Market provided insights into market dynamics, pricing strategies, and the role of intermediaries. Interactions with local farmers and a visit to a vegetable nursery allowed participants to witness firsthand the challenges and opportunities in vegetable cultivation.

Places Visited:

1. Narakoduru Vegetable Market:

Participants observed market activities, gaining insights into trading, pricing, and distribution within a short timeframe. Discussions with market vendors provided a snapshot of market trends and consumer preferences.

2. Farmers' Fields:

A brief visit to local farmers' fields allowed participants to witness practical cultivation techniques and engage in discussions with farmers. The focus was on quick exposure to on-field experiences, including crop management and pest control.

3. Vegetable Nursery:

The exposure visit included a short visit to a vegetable nursery, where participants gained insights into the early stages of plant cultivation, focusing on seed selection and germination techniques.

Curricular Emphasis:

The condensed curriculum for the single-day visit emphasized key aspects of the vegetable supply chain, covering market dynamics, cultivation practices, and nursery management. The goal was to provide participants with a snapshot of the agricultural ecosystem.

Sustainability Focus:

Throughout the visit, a brief emphasis on sustainable farming practices and environmental conservation was maintained, encouraging participants to consider methods promoting eco-friendly agriculture.

Successful Completion:

The exposure visit successfully concluded on August 10th, 2023, with participants gaining condensed but valuable insights into the complexities of the vegetable supply chain. The completion positions them as individuals with a snapshot understanding ready to explore further in their academic and professional pursuits.

Next Steps:

Moving forward, participants are encouraged to reflect on the brief but enriching experiences and integrate the gained knowledge into their academic and professional pursuits. Sharing insights within the academic community will contribute to a broader understanding of the challenges and opportunities in vegetable cultivation and marketing.

Conclusion:

Despite the single-day duration, the Narakoduru Agricultural Exploration exposure visit provided participants with valuable insights into the agricultural supply chain. The success of the visit highlights the effectiveness of condensed, focused exposure programs in delivering practical knowledge and preparing participants for future engagement in the agricultural sector.

31-01-2024

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Exploring Narakoduru

List of students participated

S.No.	Regd. No.	S.No.	Regd. No.
1	221FW01001	26	221FW01027
2	221FW01002	27	221FW01028
3	221FW01004	28	221FW01029
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Signature of the Co-ordinator

VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY AND RESEARCH, VADLAMUDI
DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES
Agro-Based Industrial Visit Report (Tulasi Seeds Private Limited), Dokiparru

Introduction:
On June 6, 2023, 80 students from the II-year section participated in an agro-based industrial tour to Tulasi Seeds Private Limited in Dokiparru. This educational visit aimed to provide practical insights into cotton processing.

Practical Aspects Covered:
1. Ginning Process in Cotton:
The visit commenced with a comprehensive exploration of the ginning process in cotton. Students observed the mechanical separation of cotton fibers from seeds, gaining a firsthand understanding of the initial processing stage crucial to the cotton industry
2. De-linting of Cotton:
Participants were introduced to the de-linting process, where the remaining cotton fibers were further refined. The de-linting machinery and techniques used at Tulasi Seeds were highlighted, emphasizing the importance of obtaining high-quality lint for various applications.
3. Grading & Packing Process of Cotton Seeds:
The grading and packing process of cotton seeds were elucidated during the industrial visit. Students learned about the criteria for grading seeds based on quality and size, and witnessed the packaging procedures employed by Tulasi Seeds for the distribution of cotton seeds.
4. Tissue Culture:
The industrial tour also included a segment on tissue culture, showcasing the advanced agricultural practices implemented by Tulasi Seeds. Students were exposed to the application of tissue culture in crop improvement and propagation, providing insights into cutting-edge technologies in agro-based industries.

Outcome:
The industrial visit to Tulasi Seeds Private Limited on June 6, 2023, proved to be a valuable educational experience for the students. It not only enhanced their theoretical understanding of cotton processing but also provided practical exposure to the various stages involved in transforming raw cotton into marketable products.

Educational Significance:
The tour served as an essential supplement to the curriculum offering students a real-world perspective on agro-based industries. The practical aspects covered, including ginning, de-linting, grading, and tissue culture, enriched their knowledge and equipped them with insights into modern agricultural practices.

Interactive Learning:
The visit encouraged interactive learning through on-site demonstrations and discussions with experts at Tulasi Seeds. Students had the opportunity to engage in meaningful conversations, ask questions, and gain a deeper understanding of the intricacies involved in cotton processing and the application of tissue culture.

Conclusion:
The Agro-Based Industrial Visit to Tulasi Seeds Private Limited in Dokiparru on June 6, 2023, was a successful endeavor that complemented classroom learning with practical experiences. The exposure to various aspects of cotton processing and tissue culture in agriculture was instrumental in broadening the students' perspectives and preparing them for future endeavors in agro-based industries.

31-07-23
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Agro based Industrial visit - Tulasi seeds

List of students participated

S.No.	Regd. No.	S.No.	Regd. No.	S.No.	Regd. No.	S.No.	Regd. No.
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Signature of the Co-ordinator

VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY AND RESEARCH, VADLAMUDI
DEPARTMENT OF AGRICULTURAL AND HORTICULTURAL SCIENCES
"Insights from the Field: A Comprehensive Report on the Rice Processing Unit in Chebrolu"

Introduction:
The Exposure Visit to a rice mill in Chebrolu, Andhra Pradesh, Guntur District, held on March 16th, 2023, provided participants with a unique opportunity to explore the rice milling industry. The visit focused on enhancing participants' understanding of rice processing, milling technologies, and the significance of the rice industry in the region

Objectives:
The one-day exposure visit effectively met its objectives by offering participants a firsthand experience of the rice milling process and insights into the technological advancements driving the industry. The program aimed to bridge the gap between theoretical knowledge and practical applications, emphasizing the critical role of rice mills in the agricultural landscape.

Outcomes:
Participants gained valuable exposure to the intricacies of rice processing and milling during the visit. The tour of the Chebrolu rice mill allowed participants to witness the various stages of rice production, from paddy intake to the packaging of the final product. Interactions with mill operators and managers provided insights into the challenges and innovations in the rice milling industry.

Location Explore: Chebrolu Rice Mill
Participants observed the entire rice milling process, including the separation of husk and the extraction of rice from paddy. The rice mill utilized modern machinery, such as rice hullers, to efficiently remove the husk and obtain the rice grains. Discussions highlighted the significance of quality control measures to ensure the production of premium-quality rice.

Educational Emphasis:
The strength of the exposure visit lay in its focused curriculum, which covered key aspects of rice processing and milling technologies. Participants gained insights into the importance of quality control, efficient processing techniques, and the role of modern technology in optimizing rice production.

Technological Integration:
The visit highlighted the integration of advanced technologies in the rice milling process. Participants witnessed the use of modern machinery, including rice hullers, polishers, and sorting equipment. The husk separation process was explained, demonstrating how machinery efficiently removes husk to obtain polished rice grains.

Difference Between Parboiled Rice and Normal Rice:
During discussions, participants learned about the difference between parboiled rice and normal rice. Parboiled rice undergoes a steaming process before milling, which enhances its nutritional value by retaining nutrients in the grain. This method also alters the texture and color of the rice. In contrast, normal rice is milled directly without pre-treatment.

Polishing Process:
The visit included insights into the polishing process, a step where the outer layers of the rice grain are removed. Polishing enhances the appearance of the rice and extends its shelf life. Discussions elaborated on how polishing contributes to consumer preferences for aesthetically pleasing and easily cookable rice.

Visit Conclusion:
The exposure visit to the Chebrolu Rice Mill concluded on March 16th, 2023, with participants equipped with practical insights into the rice milling industry. The successful completion positions them as individuals with a deeper understanding of the complexities and innovations in rice processing.

Final Thoughts:
The Chebrolu Rice Mill Exploration exposure visit, despite its one-day duration, provided participants with a comprehensive understanding of rice processing and milling technologies. The success of the visit underscores the effectiveness of focused exposure programs in delivering practical knowledge and preparing participants for future engagements in the agricultural sector, specifically in rice production.

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Rice Processing Unit in Chebrolu

List of students participated

S.No.	Regd. No.	S.No.	Regd. No.
1	221FW01116	26	221FW01145
2	221FW01118	27	221FW01146
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Signature of the Co-ordinator