Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati- 413133

Department of Computer Engineering

Computer Engineering Student Association (CESA)

Industrial Visit Report

Title	Details
Department	Computer Engineering, VPKBIET, Baramati
Visited Organization	ICAR–National Institute of Abiotic Stress Management (NIASM), Baramati
Date of Visit	12th September 2025
Number of Students	101
Faculty Members Accompanied	6
Time	10:30 am to 3:30 pm

Introduction

The Department of Computer Engineering at VPKBIET, Baramati organized an industrial visit to ICAR–National Institute of Abiotic Stress Management (NIASM)**,** Baramati, on 12th September 2025. The primary objective of this visit was to bridge the gap between classroom learning and real-world applications by exposing students to interdisciplinary research in agriculture, particularly focusing on abiotic stress management and how computer engineering tools can support advancements in this domain.

Objective of the Visit

The visit aimed to:

- Introduce students to ongoing research and technologies used in agriculture to manage abiotic stress.
- Understand the scope for applying computer engineering solutions such as Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT), data analytics, and software development in agricultural research.

- Motivate students to take up interdisciplinary research and innovation for smart and sustainable farming solutions.

Highlights of the Visit

- **Plant Phenotyping Facility:**

  Mr. Rohit Babar**,** Senior Research Fellow, provided an in-depth explanation of the Plant Phenotyping Facility at NIASM. Students learned how datasets are created using dual-camera systems capturing plant images from six different angles. This setup plays a crucial role in analyzing plant traits under various stress conditions, aiding researchers in developing stress-resilient crops. The discussion emphasized the role of image processing, machine learning, and data analytics in agricultural research


ICAR-NIASM
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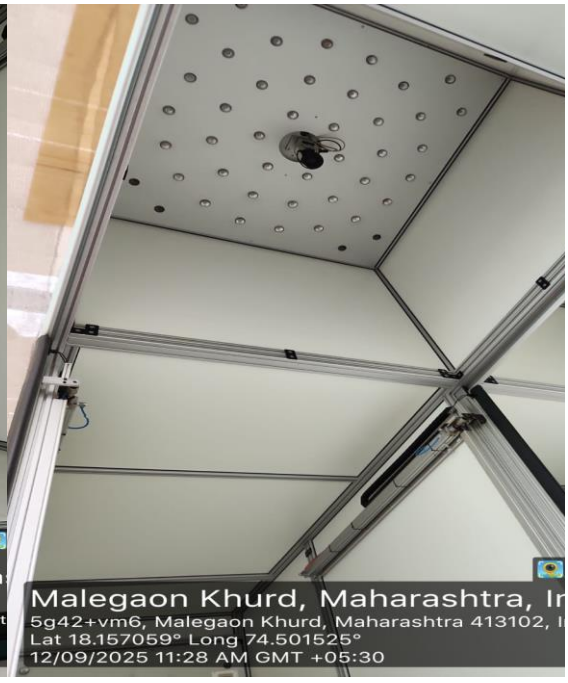
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- **Institute Overview and Research Culture:**

Dr. Ravi Kumar delivered a comprehensive overview of NIASM's research environment, highlighting its mission, core research areas, and interdisciplinary work culture. He discussed the opportunities and challenges faced in abiotic stress management and encouraged students to explore collaborative research that integrates agriculture with computer science.

- **Administrative Support and Coordination:**

Mr. **Rajesh Pawar** from the administrative team ensured the smooth execution of the visit. He coordinated the schedule efficiently, facilitating access to various facilities and ensuring that all safety and organizational protocols were followed.


2x2 Push Back
The Pulse Of New Generation
GUNDECHA


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Learning Outcomes

- Students gained valuable insights into real-time data collection, analysis, and visualization techniques used in agricultural research.
- They understood the role of advanced technologies in developing practical solutions for agricultural problems.
- The visit inspired students to consider agriculture as a viable and impactful domain for applying their technical knowledge and pursuing research or startup ideas.

Conclusion

The industrial visit to ICAR–NIASM was highly enriching and informative. It not only broadened the students' understanding of the applications of computer engineering in agriculture but also encouraged them to think beyond conventional domains. We are thankful to the NIASM team for their warm hospitality, informative sessions, and for making this visit a meaningful learning experience.

Acknowledgements

We would like to extend our sincere gratitude to Dr. Ravi Kumal for his insightful session on institutional research, and to Mr. Rohit Babar for providing a detailed explanation of the Plant Phenotyping Facility. We are also thankful to Mr. Rajesh Pawar for his excellent administrative coordination, and to the entire NIASM team for their support and cooperation during the visit. Our heartfelt thanks go to Dr. S. B. Lande, Principal, VPKBIET, for his constant encouragement and support in facilitating such academic initiatives, as well as to Dr. Arvind Jagtap, Head, Department of Computer Engineering, for his valuable guidance and continuous motivation throughout the planning and execution of the visit. We also acknowledge the efforts of our faculty coordinators, Mr. Pankaj Ambole, Mrs. Sushma Nangaonkar, Ms. Gauri Bhelonde, and Ms. Sayantani Bala, for their continuous support in making this visit a success.

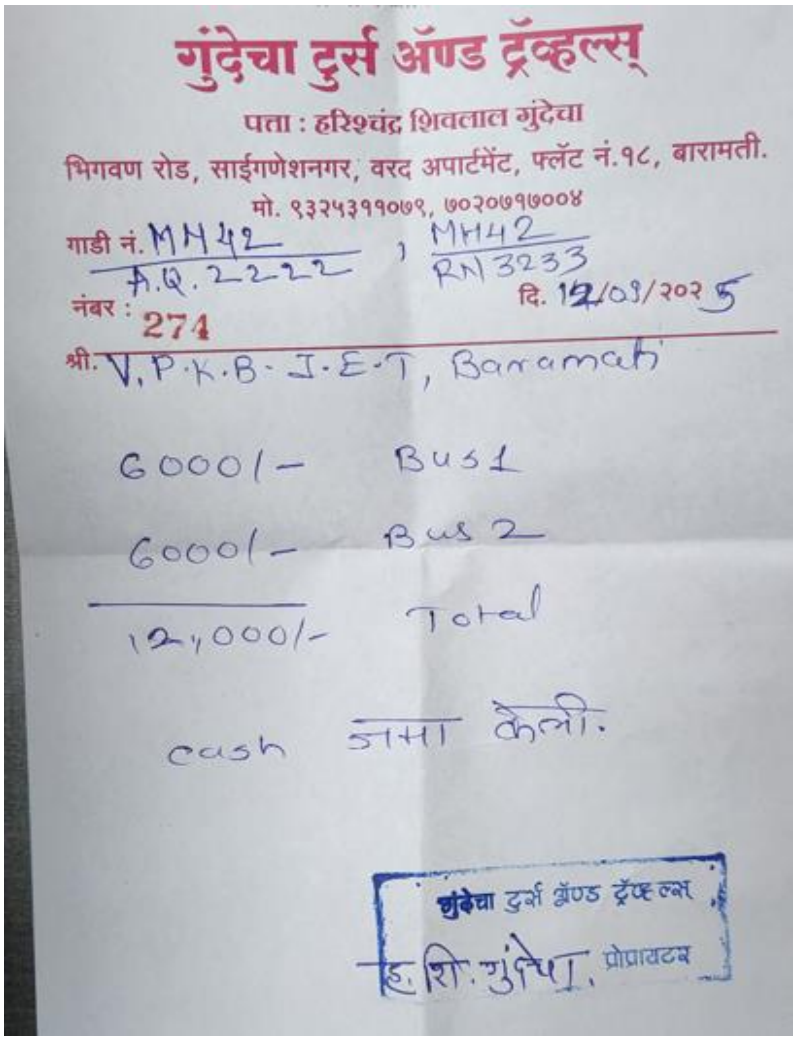
Mrs.More M.U. — **CESA Coordinator**

Dr.Arvind JAgtap — **HOD**

Contribution and Expenses Summary

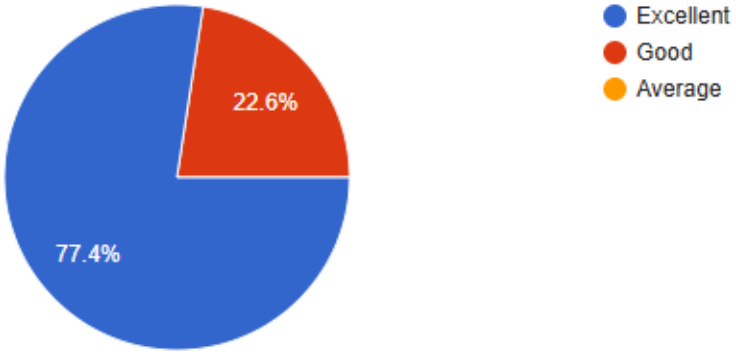
Division	No. of People	Contribution per Person	Total Contribution
A	51	₹100	₹5,100
B	50	₹100	₹5,000
Total Contribution	—	—	**₹10,100**

Expense Item	Quantity	Cost per Unit	Total Expense
Bus Hire	2	₹6,000	₹12,000
Total Expenses	—	—	**₹12,000**

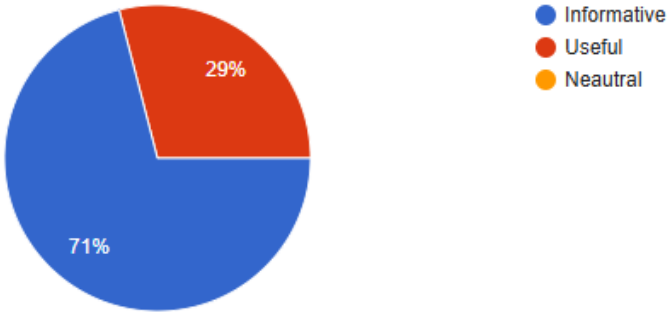


Feedback:

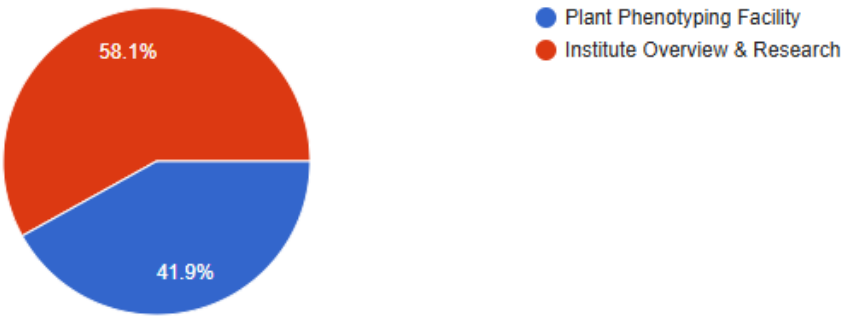
Your Experience about visit



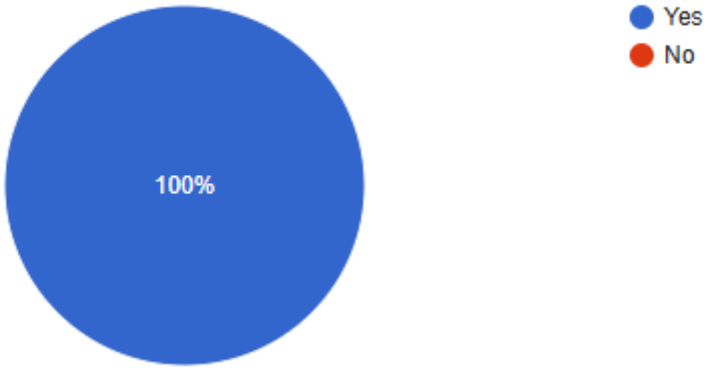
Sessions were:



Which part did you find most interesting



Did the visit help you understand the role of Computer Engineering in Agriculture?



Any improvements you'd like to suggest for future visits?

- Visit somewhere far away from baramati for 2nd time
- We need more time to explore the such time of centres for better understanding and learning from them.
- Should provide internship from the institute
- It should of 5 days at least
- No, It was best
- Take visit to isro Bengaluru
- We could have visited far more places that could actually help us grow in our own field like ISRO, DRDO, Google, Microsoft.
- we should plan more visits
- The visits should be long one and to a far place
- Could have visited more places.
- We want visit to IT industry
- To witness the real corporate life, hope the next visit will be one IT Company.
- We will like more visits related to research and practice knowledge.
- Explore far locations
- If possible, allow students to try or use small equipment's while industrial visit.
- Everything was up to the mark