Outlook

Conduction of One-day Workshop on "Biofortification: Plant Breeding for Nutritional Security." for the Faculty members of KLEF Vaddeswaram Campus - Communication – Reg.

From Registrar <registrar@kluniversity.in>

Date Thu 2024-09-26 12:35 PM

To PRESIDENT <president@kluniversity.in>; Raja Harin koneru <krh@kluniversity.in>; PRO-CHANCELLOR <prochancellor@kluniversity.in>; Vice Chancellor - KLU <vc@kluniversity.in>; Dr G.P.S. Varma, Vice Chancellor <gpsvarma@kluniversity.in>; N Venkat Ram <venkatram@kluniversity.in>; Pro VC <provc@kluniversity.in>; Pro VC Academics <provc-academics@kluniversity.in>; Dr Jagadeesh Anne <drjagadeesh@kluniversity.in>; Joint Registrar <jointregistrar@kluniversity.in>; Deputy Registrar II <deputyregistrar.2@kluniversity.in>; Prabhath Jasthi <prabhathjasthi@kluniversity.in>; A Krishna Rao <akr@kluniversity.in>; Assistant Registrar-Office of Registrar <asstregistrar@kluniversity.in>; Dr. JKR Sastry <drsastry@kluniversity.in>; Advisor Student Affairs <habibulla@kluniversity.in>; K R S Prasad <krsprasad_fed@kluniversity.in>; Dr. Subrahmanyam <smkodukula@kluniversity.in>; Dean Academics <dean.academics@kluniversity.in>, Dean (R & D) <deanrnd@kluniversity.in>

1 attachments (14 KB)

COLLEGE OF AGRICULTURE Faculty List 26-09-2024.xlsx;

Ref: KLEF/RO/ASC/Workshop/2024-25 26th September 2024

Orders of the Hon'ble Vice-Chancellor dt. 26-09-2024

CIRCULAR

Sub: Conduction of One-day Workshop on **"Biofortification: Plant Breeding for Nutritional Security."** for the Faculty members of KLEF Vaddeswaram Campus - - Communication – Reg.

Ref: Letter received from Dr. I. Govardhini, Principal, Academic Staff College.

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This is to inform the KL College of Agriculture, KLEF, Vaddeswaram, in association with the Academic Staff College KLEF, will be organizing a **One-day Workshop on "Biofortification: Plant Breeding for Nutritional Security."** for the Faculty members of KLEF, Vaddeswaram Campus on 28-09-2024 (Saturday).

Program Details:

Date	: 28-09-2024(Saturday).
Timings	: From 10:00 AM to 1:00 PM
Venue	: Sunflower Hall, C-Block, Ground floor, KLEF, Vaddeswaram campus.

Resource person:

Sri MOHAN SATYAKAR RAO NALABOLU, Junior Breeder – Rice (R&D-FC & Cotton), JK Agri Genetics Ltd.

It is mandatory that the earmarked Teaching Faculty members (as per the list enclosed) to attend the Workshop.

All the Deans, Principals, HoDs and Functionaries concerned of KLEF-Vaddeswaram Campus are directed to ensure participation of earmarked Faculty members accordingly.

REGISTRAR

Encl: as above

Mail & Hard copy to: Hon'ble President, KLEF
Mail to: Hon'ble Vice-Presidents, KLEF
Mail & Hard copy to: Hon'ble Pro Chancellor
Mail & Hard copy to: Hon'ble Vice-Chancellor
Mail & Hard copy to: Pro Vice-Chancellors
Mail to: Chief Coordinating Officer-Dr.A. Jagadeesh
Mail to: Special Officer -Dr.A. Vani
Mail to: All Advisors / All Deans / All Principals / All Vice-Principals / All Sr.Directors / All Directors / All Additional Deans
Mail to: Controller of Examinations-Dr.A.S.C.S.Sastry
Mail to: Joint Registrar / Deputy Registrar / Sr.Manager (Alumni Relations) & AR Sri A.Krishna Rao / AR Dr MVAL Narasimha Rao
Mail to: All HoDs / All Alternate HoDs / All Deputy HoDs
Mail to: KL H - Principal Off Campus Centre, Aziz Nagar Campus / KL H - Principal Off Campus Centre, Bowrampet
Vice-Principal / Director / Deputy Director
Mail to: Chief Technical Officer (CTO)-Mr.A.Satya Kalyan
Mr. Raja Sekhar, Emp. No. 2482, Jr. Network Administrator (E-mail: rajasekhar_syte@kluniversity.in)
Mail to: Professor In-charge, EduTech, Animation-Dr. M. Siva Kumar,Assoc. Professor,ECE
Mail to: Principal-Academic Staff College
Director, KL College of Agriculture & HoD-KL College of Agriculture
Individuals concerned

Thanks & Regards

Dr. K. Subba Rao
REGISTRAR
KONERU LAKSHMAIAH EDUCATION FOUNDATION
(Category-1 Deemed to be University estd. u/s 3 of the UGC Act, 1956)
Accredited by NAAC with A++ Grade (3rd Cycle) ❖ Approved by AICTE ❖ ISO 21001:2018 Certified
Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA
Phone No. 08645 - 350200 www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

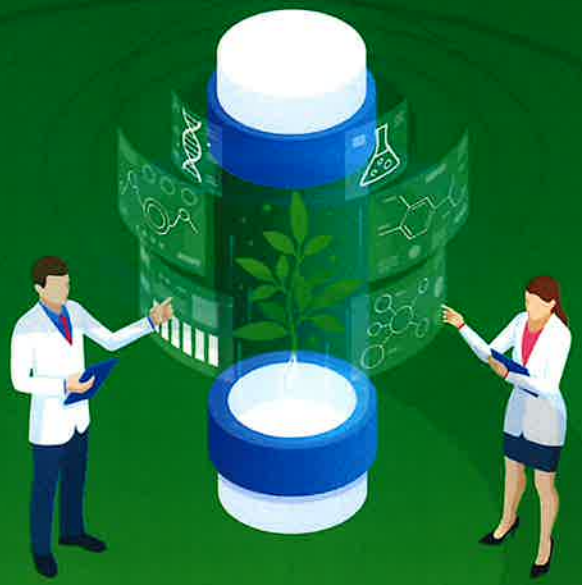
KL (DEEMED TO BE UNIVERSITY) | Academic Staff College

CATEGORY 1 UNIVERSITY BY MHRD, Govt. of India

nirf 2024 NATIONAL INSTITUTIONAL RANKING FRAMEWORK RANKED 22 AMONG ALL UNIVERSITIES

ACCREDITED BY NAAC WITH A++ GRADE

44 YEARS OF EDUCATIONAL LEADERSHIP



ONE-DAY WORKSHOP ON

"BIOFORTIFICATION: PLANT BREEDING FOR NUTRITIONAL SECURITY."

28 SEPTEMBER 2024

SUNFLOWER HALL, C-BLOCK, GROUND FLOOR, KLEF, VADDESWARAM CAMPUS.

RESOURCE PERSONS:

SRI MOHAN SATYAKAR RAO NALABOLU

Junior Breeder - Rice (R&D-FC & Cott on), JK Agri Geneti cs Ltd.

(DEEMED TO BE UNIVERSITY) | Academic Staff College

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nirf 2023 NATIONAL INSTITUTIONAL RANKING FRAMEWORK | RANKED 28 AMONG ALL UNIVERSITIES | 43 YEARS OF EDUCATIONAL LEADERSHIP

Report on

One-day Workshop on "Biofortification: Plant Breeding for Nutritional Security."

Program Details:

Date: 28-09-2024(Saturday).

Timings: From 10:00 AM to 1:00 PM

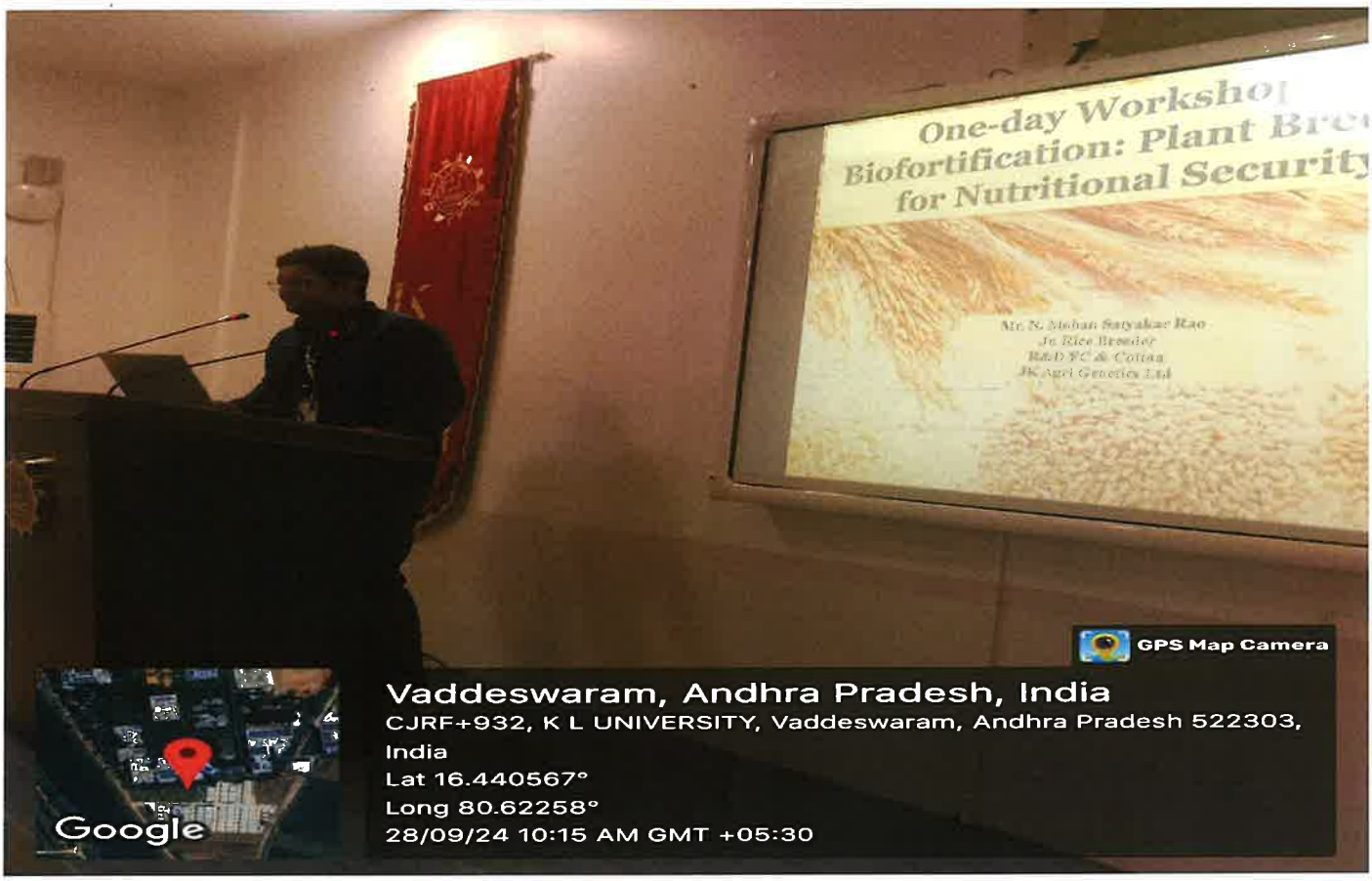
Venue: Sunflower Hall, C-Block, Ground floor, KLEF, Vaddeswaram campus.

Resource person:

Sri MOHAN SATYAKAR RAO NALABOLU, Junior Breeder – Rice (R&D-FC & Cotton), JK Agri Genetics Ltd.

The Academic Staff College at KLEF conducted a One-day Workshop on "Biofortification: Plant Breeding for Nutritional Security." for teaching faculty on 28th November 2024. This session main aim of **biofortification** in the context of plant breeding for nutritional security is to improve the nutritional quality of crops through the process of selective breeding or genetic modification.

The goal is to enhance the levels of essential vitamins, minerals, and other nutrients in staple crops, such as rice, wheat, maize, and beans, which are commonly consumed by large populations, especially in developing countries.



Welcome address by Mr. Arun Reddy Asst Prof, Academic Staff College (ASC)

Resource person: Sri MOHAN SATYAKAR RAO NALABOLU, Junior Breeder – Rice (R&D-FC & Cotton), JK Agri Genetics Ltd.

The one-day workshop on "Biofortification: Plant Breeding for Nutritional Security" was held to address the growing global concern of micronutrient deficiencies and malnutrition. This workshop brought together leading experts, researchers, practitioners, and stakeholders to explore biofortification through plant breeding as a sustainable and innovative approach to improve the nutritional quality of staple crops. Sri Mohan Satyakar Rao Nalabolu, Junior Breeder – Rice (R&D-FC & Cotton), JK Agri Genetics Ltd., played an integral role in sharing his insights and expertise on how plant breeding, particularly in rice and cotton, can contribute to the biofortification movement.

Purpose of the Workshop:

The purpose of the workshop was to:

- **Highlight the Role of Biofortification**: To raise awareness about the importance of biofortification in combating nutritional deficiencies, particularly in developing countries.
- **Share Knowledge and Experience**: To provide a platform for experts to discuss the latest advancements in plant breeding technologies and their applications in biofortification.
- **Address Challenges**: To identify the key challenges in implementing biofortification at a large scale and propose potential solutions.

- **Encourage Collaboration**: To foster collaboration between academic institutions, private sector companies, and policymakers to advance biofortification efforts globally.

Key Sessions and Insights:

1. **Inaugural Address and Overview of Biofortification**:
   - The workshop opened with an introductory address on the importance of biofortification. Experts emphasized that addressing micronutrient deficiencies through biofortified crops could play a pivotal role in improving public health, especially in countries with limited access to diverse diets.
2. **Scientific Principles of Biofortification**:
   - A detailed session on the scientific principles of biofortification covered the mechanisms by which nutrient-rich crops are developed. Key topics included the role of traditional breeding methods as well as modern techniques like marker-assisted selection (MAS) and genetic engineering in enhancing nutrient content.
3. **Mohan Satyakar Rao Nalabolu's Presentation**:
   - **Focus on Rice and Cotton**: Sri Mohan Satyakar Rao Nalabolu, a Junior Breeder in the R&D division at JK Agri Genetics Ltd., shared his expertise in rice and cotton breeding for nutritional improvement. He provided an in-depth overview of his work on biofortifying rice with essential nutrients like iron and zinc, and cotton with improved fiber quality for better health benefits.

   - **Key Contributions**: Sri Nalabolu highlighted the integration of biofortification techniques with traditional breeding methods in rice, emphasizing how biofortified varieties of rice can address iron and zinc deficiencies, which are prevalent in many developing regions of

the world. He also discussed ongoing research to enhance the nutritional quality of cotton, especially focusing on improving seed nutrient profiles.

- **Challenges and Innovations**: He discussed some of the key challenges faced in breeding biofortified crops, such as achieving consistent nutrient levels across different environments and ensuring the crops' market acceptance.

4. **Technological Innovations in Biofortification**:
   - Presenters from various institutions discussed new advancements in genetic technologies, including CRISPR gene-editing and transgenic techniques, which hold promise for faster and more targeted biofortification of crops. The session also covered how these technologies could complement traditional breeding approaches.
5. **Global Case Studies in Biofortification**:
   - Several case studies from around the world highlighted successful biofortification programs, including vitamin A-rich Golden Rice, zinc-enriched wheat, and iron-fortified beans. These case studies provided real-world examples of how biofortified crops have been successfully integrated into farming systems and their impact on improving nutritional outcomes.
6. **Policy and Regulatory Frameworks for Biofortification**:
   - A session focused on the role of governments and international organizations in creating supportive policies and regulatory frameworks for biofortified crops. Topics included regulatory challenges, intellectual property rights, and the role of global organizations like the Food and Agriculture Organization (FAO) and the World Health Organization (WHO) in promoting biofortification.

Key Takeaways:

- **Biofortification as a Sustainable Solution**: Biofortification offers a sustainable and cost-effective solution to combat micronutrient deficiencies and improve nutritional security, especially in areas with limited access to diverse food sources.

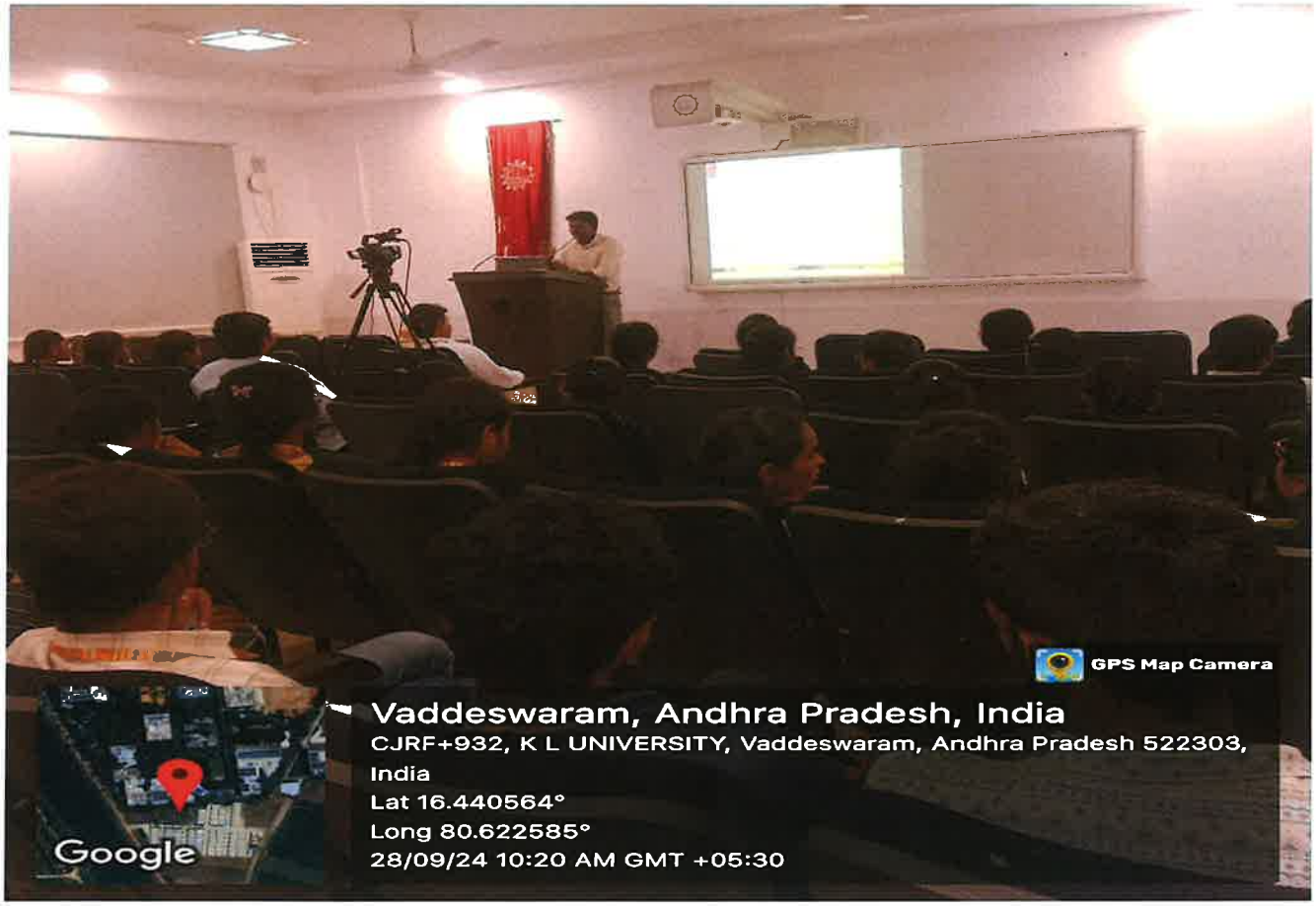
- **Role of Plant Breeding**: Plant breeding remains a critical tool in developing biofortified crops. The expertise of breeders like Sri Mohan Satyakar Rao Nalabolu is essential in advancing the development of nutrient-dense varieties of staple crops like rice and cotton.
- **Advances in Biotechnology**: Genetic engineering and gene-editing technologies such as CRISPR have the potential to accelerate the development of biofortified crops, although traditional breeding methods still play an important role in achieving consistent results.
- **Importance of Multilateral Collaboration**: Collaboration between the private sector, research institutions, governments, and international organizations is necessary to overcome challenges related to scaling up biofortification and ensuring that these crops reach the people who need them most.

Challenges Identified:

- **Environmental Consistency**: Achieving stable and consistent nutrient levels in biofortified crops across different growing environments remains a challenge.
- **Farmer Acceptance**: Farmers need to be educated and incentivized to grow biofortified varieties, and market systems need to be in place to ensure the crops are sold and consumed.
- **Regulatory Hurdles**: Navigating the complex regulatory frameworks for genetically modified crops and biofortification techniques is a significant barrier in many countries.

Recommendations:

1. **Strengthen Research and Development**:
   - Invest in further R&D to develop biofortified varieties with improved stability and higher nutrient content, as well as more efficient breeding methods for crops like rice, wheat, and cotton.
2. **Expand Public-Private Partnerships**:
   - Increase collaboration between private companies, government bodies, and research institutions to scale up the production and distribution of biofortified crops. The work of companies like JK Agri Genetics Ltd. in biofortification should be expanded to other staple crops and regions.
3. **Enhance Policy Support**:
   - Governments should implement policies that encourage the adoption of biofortified crops and align their regulatory processes with international standards, ensuring biofortification technologies are accessible to farmers.
4. **Increase Awareness and Education**:
   - Public awareness campaigns are needed to educate consumers and farmers about the benefits of biofortified crops. Consumer acceptance is critical for the success of biofortified crops in the market.
5. **Monitoring and Impact Evaluation**:
   - There is a need for more rigorous monitoring and impact assessment programs to measure the long-term benefits of biofortified crops on nutrition and public health, as well as their economic impact on farmers.



Conclusion:

The workshop successfully provided a platform for discussing the vital role of biofortification in addressing nutritional security and the challenges faced in its implementation. The insights shared by Sri Mohan Satyakar Rao Nalabolu and other experts emphasized the importance of plant breeding, technological innovations, and multi-stakeholder collaboration in driving forward biofortification efforts. With continued research, policy support, and awareness, biofortification has the potential to be a transformative approach to tackling global malnutrition and improving food security worldwide.

This report provides an outline of the workshop's key moments, with a special focus on Sri Mohan Satyakar Rao Nalabolu's contributions. You can adjust the report further based on additional workshop details or personal insights you'd like to include!

Participants and Resource Person Group Photo

Felicitating the resource person.

- On the last day, Direct Dr. Ratna prasad Pavuluri, has given the summary of key takeaways from the FDP, highlighting the importance of continuous learning and biofortification in combating nutritional deficiencies, particularly in developing countries. Few participants provided feedback on the program. The program ended with Vote of thanks from Mrs. Ch. Manjusha, Asst Prof, Dr. Atul Singh

Participants and Resource Person Group Photo

31/10/2024

Dr. I. Govardhani
Principal Academic Staff College.

PRINCIPAL
ACADEMIC STAFF COLLEGE
Koneru Lakshmaiah Education Foundation
(Deemed to be University)
Green Fields, VADDESWARAM-522 302

KL (DEEMED TO BE UNIVERSITY) | Academic Staff College

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A One-day Workshop on "Biofortification: Plant Breeding for Nutritional Security." on 28-09-2024.

Sl.No	Emp Id	Name of the Faculty	Department	In Time	Signature
1	2564	Dr.K.B.GLORY	College of Agriculture		
2	6516	Mrs.P.MANASA	College of Agriculture	10.17AM	P. Manasa
3	6606	Dr.M..DOLPRIYA DEVI	College of Agriculture	10:17 AM	M. Dolpriya Devi
4	6653	Dr. ATUL SINGH	College of Agriculture	10:00AM	Atul Singh
5	6754	Dr.P.SENTHIL MURUGAN	College of Agriculture		
6	6773	Dr.SHIVA SAI PRASAD	College of Agriculture		
7	6780	Dr.RAMA DEVI BONU	College of Agriculture	10:00AM	Rama
8	6781	Dr.M.GAYATHRI	College of Agriculture		
9	7187	MrS.K.KALPANA	College of Agriculture		
10	7209	Mr.SHAIK SAMEER	College of Agriculture		
11	7280	Dr.D.SRAVANI	College of Agriculture	10.AM	Dr. D. Sravani
12	7305	Ms.TEJASWINI.SADINENI	College of Agriculture	10:19AM	Tejaswini
13	7571	Mr.G SAI VAMSI REDDY	College of Agriculture		
14	7594	Dr.ASHOK KUMAR MELKERI	College of Agriculture		
15	7612	Dr.P.RATNA PRASAD	College of Agriculture		
16	7617	Ms. SUSHMA RAJ CH.	College of Agriculture	9:55AM	Sushma Raj
17	7637	Dr. MONOJ SUTRADHAR	College of Agriculture	10AM	28/9/24
18	7638	Mr.SHIVANAND PARASHURAM YARAZARI	College of Agriculture		
19	7669	Mrs. BETHAPUDI SUDEEPTHI	College of Agriculture		
20	7724	Mr.M NIHARIKA	College of Agriculture	10:20AM	M. Niharika.
21	7860	Dr. VALLURI JHANSI HIMA VARSHA	College of Agriculture		
22	7880	Dr. J.R.RAJESHWAR	College of Agriculture	10:00Am	J.R.

23	7883	Dr. N.PRABHAVATHI	College of Agriculture		
24	8006	Dr. B.BALA KRISHNA	College of Agriculture		
25	8032	Dr. V. RAGA MALIKA	College of Agriculture		
26	8158	Dr. B.V.S.KIRAN	College of Agriculture		
27	8161	Dr. P. AVINASH	College of Agriculture		
28	8283	Dr. K RANJIT	College of Agriculture		
29	8340	Dr . S.Vijaya Lakshmi	College of Agriculture		
30	8538	Dr. V. Priyanka	College of Agriculture		
31	8550	Dr. UDAY BHASKAR MOGALLAPU	College of Agriculture		
32	8551	Dr.VINEELA KODAVATI	College of Agriculture		
33	8552	Dr. DASARI GOPAL	College of Agriculture		
34	8579	Dr. NUTHALAPATI PAVITHRA	College of Agriculture		
35	8589	Mr.BELLAPAKONDA GOUTHAM KISHORE	College of Agriculture		
36	8660	Dr.G.SUNITHA	College of Agriculture	10.15 Am	Sunitha
37	8742	Dr.GALI SURESH	College of Agriculture		
38	8748	Dr. RAMESH G B	College of Agriculture		
39	8911	Dr. M.NAGARAJ KUMAR	College of Agriculture	11:20 (class)	

28/9/2024

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KL UNIVERSITY | Academic Staff College

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A One-day Workshop on "Biofortification: Plant Breeding for Nutritional Security." on 28-09-2024.

Sl.No	University Id	Name of the ~~Faculty~~ Student	Department	Designation	Signature
	2100600196	S. Karthik	College of Agriculture	Student	
	2100620193	N. Swaroop	College of Agriculture	Student	
	2100620077	A. Siva Shankar	College of Agriculture	Student	
	2100620048	A. Vishnu Sai	College of Agriculture	Student	
	2100620178	K. Kiran kumar	College of Agriculture	Student	
	2100620127	D. Venkata vigran	College of Agriculture	Student	
	2100620213	Sk. Ajas	College of Agriculture	Student	
	2100620130	L.M.V. Naga Sai	College of Agriculture	Student	
	2100620039	U. Kiran Kumar	College of Agriculture	Student	
	2100620236	N. Devarsh	College of Agriculture	Student	
	2100620216	M.V. Surya Tej Reddy	College of Agriculture	Student	
	2100620058	P. Yogitha	College of Agriculture	Student	
	2100620052	P. Bhavana	College of Agriculture	Student	
	2100620051	C. Kavya Harshita	College of Agriculture	Student	
	2100620014	G. Charmi	College of Agriculture	Student	
	2100620059	G. Thanuja	College of Agriculture	Student	
	2100620034	P. Lavanya	College of Agriculture	Student	
	2100620183	G. Jyothna	College of Agriculture	Student	
	2100620018	Reethi	College of Agriculture	Student	
	2100620172	Jahnavi	College of Agriculture	Student	
	2100620233	M. Usha Rani	College of Agriculture	Student	
	2100620195	K. Mounika	College of Agriculture	Student	
	2100620217	V. Mounika	College of Agriculture	Student	
	2100620120	P. Jhansi lakshmi	College of Agriculture	Student	
	2100620082	G. Supriya	College of Agriculture	Student	
	2100620070	D. Sri Navya	College of Agriculture	Student	

Sl.No.	University Id	Name of the ~~Faculty~~ Student	Department	Designation	Signature
	2100620100	K. Kavya Likhita	College of Agriculture	Student	Kavya Likhita
	2100620036	N. Sree Mahalakshmi	College of Agriculture	Student	maha
	2100620040	K. Indrani	College of Agriculture	Student	K. Indrani
	2100620016	N. Hanshitha	College of Agriculture	Student	Hanj
	2100620142	T. Surekha	College of Agriculture	student	Su
	2100620143	G Mounika	College of Agriculture	student	Mun
	2100620166	K. Chandana	College of Agriculture	student	Chu
	2100620177	Hemchand. Ch	College of Agriculture	Student	Hem
	2100620189	M. Devaraj	College of Agriculture	student	Dev
	2100620191	K. Mani Gopichand	College of Agriculture	Student	Gopi
	2100620139	K. Mounika	College of Agriculture	student	Mu
	2100620120	P. Jhansi lakshmi	College of Agriculture	student	Jhan
	2100620075	T. Vishnupriya	College of Agriculture	student	Vish
	2100620086	Sk. Fareeda	College of Agriculture	Student	Fa
41	2100620001	M. Veena	Agriculture	Student	
42.	2100620009	B. Sirichandana	Agriculture	Student	Sirich
43.	2100620068	Ch. Anusha	Agriculture	Student	Anusha
44.	2100620095	SK. Chisty Tahameen	Agriculture	Student	Chisty
45.	2100620056	M. Navya Siri	~~Agriculture~~	~~Student~~	Navya
46.	2100620067	~~A~~ Sri lekha	~~Agriculture~~	~~Student~~ Student	A. Srilekha
47.	2100620131	G. Abhinaya	~~Agriculture~~	Student	G. Abhinaya
48.	2100620097	Nikil	Agriculture	Student	Nikil.
49.	2100620081	Jayanth	Agriculture	Student	Jayanth
50.	2000620124	S. Swetha	Agriculture	Student	
51	2100620027	SK. Sharmila Begum	Agriculture	student	
52.	2100620033	D. Siva Bindu	Agriculture	Student	
53.	2100620060	I. Tejaswini	Agriculture	Student	Tejaswini
54.	2100620037	K. Jyothi Sri	Agriculture	Student	Jyothi
55.	2100620046	S. Alekhya	Agriculture	Student	Alej
56.	21006200 31	K. Poojya Dattasri	Agriculture	Student	
57.	2100620025	M. Jyothika	Agriculture	Student	Jyothika
58.	2100620026	B. Vennela	Agriculture		

28/2/2024
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