



RAMAIAH
College of Arts, Science &
Commerce

M S Ramaiah College of Arts, Science and Commerce
Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru Central University.
Approved by Government of Karnataka, Approved by AICTE, New Delhi,
Recognized by UGC under 2F & 12B of UGC act 1956

To,
The Principal,
MSRCASC,
Bengaluru.

Dated : 11/11/2021

Respected madam,

Subject: Permission to visit Krishi Mela. on 12.11.2021

With respect to above mentioned subject, I kindly request you to give us permission to attend Krishi Mela an annual fair organized at GKVK, UAS, Bengaluru. Though this visit student will get a knowledge on recent advances in agricultural sciences and also this is a part of experiential learning process. Kindly give us permission and also grant us the permission to utilize transport facility to take the students. Dr. Nirmala will accompany the students.

Thanking you,

Yours sincerely,

Pushpa.H 11/11/2021

Dr. Pushpa.H
HOD, Microbiology,
MSRCASC, Bangalore
Head of the Department
MICRO BIOLOGY
Ramaiah College of Arts,
Science & Commerce
Bangalore - 560 054

permitted.
forwarded to Mr. Reddy to
arrange 2 buses for the
students visit to GKVK.
from 9.30-4.30pm
Heck
11/11/21

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Ranked 55th in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

Ref: MSRCASC/MB/21-22/03

Date: 7.11.2021

Circular

Department of Microbiology

A visit to GKVK – KRISHI MELA has been organized on 12th of November 2021 for II year MSc microbiology students. This krishi mela showcases latest advances in new, upcoming technologies, products, methods in agriculture. In this regard all the students should assemble by 8.30 am. A transportation arrangement has been made.

Dr. Nirmala Devi D and Ms. Soumya S shanbhag, Assistant professors will accompany students.

HOD

Head of the Department
MICRO BIOLOGY
Ramaiah College of Arts,
Science & Commerce
Bangalore - 560 054

Principal

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DEPARTMENT OF MICROBIOLOGY

GKVK – KRISHI MELA

INTRODUCTION:

On the 12th of November 2021, Friday we (MSc. MB 2nd Year students) visited the 'Krishi Mela' organised by the University of Agricultural Sciences, Bangalore in GKVK (Gandhi Krishi Vigyana Kendra). The event started on 11th of November 2021. The event was inaugurated by a tribal women turned modern farmer '**Premadasappa**' by lightening the lamp which made the event more special.

Around 12 to 96 lack people attended the event virtually through digital platform. On the first day there were around 60,000 visitors and on the third day it was around 3,00,000 visitors.

Due to the Covid-19 Pandemic, the event was a low key this year.

The exhibition included about 550 stalls showing, the traditional, endemic and hybrid crop varieties, technologies machinery tools in farming, development and research apart from cattle and marine farming.

In this event around 10 new crop varieties and 28 new farm technologies were introduced.

OBJECTIVES OF VISIT:

- The purpose of visit was to get more exposure about the new, upcoming technologies, products, methods, etc. developing in the field of agriculture including the machinery, Research & Development, etc.
- Apart from learning new technologies, methods, this visit was also a part of our curriculum for the practical subject 'Industrial and Institutional visit.'



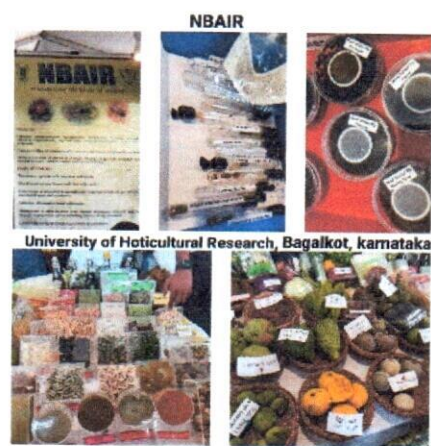
CONTENT / LEARNING HISTORY:

- Indian Institute of horticultural research (IIHR) Bengaluru:
 1. Has prepared 'Rainbow Arka Microbial Consortium' which contains nitrogen fixing and plant growth promoting metabolizing bacterial strains.
 2. They have also produced many osmotically dehydrated products of fruits like amla, pineapple, etc. and many seeds for planting different crops like pumpkin, brinjal, palak, radish, etc.
- H.K. Global Enterprises: They produced animal (cow, buffalo) feed from corn silage which resulted in production of more milk by the animal.
- Karnataka Compost Development Cooperation Ltd.:They have produced vermi-compost which is 100% virgin and is also suitable for all types of crops, flowers and vegetables.
- NBAIR – National bureau of Agricultural Insect Resources, Bengaluru:They mandate the collection, characterization, conservation, research & development and utilization of agriculturally important insect resources including mites, spider related arthropods. They also prepare different formulations of *Bacillus thuringiensis* for plant protection from certain pests.
- University of Horticultural Sciences, Bagalkot, Karnataka: they are using drying techniques for increasing the shelf life of seasonal and non-seasonal fruits and vegetables. By this we have the liberty of consuming the seasonal fruits/vegetables at any time but the same quality and taste cannot be assured. E.g., Okra (shelf life – 6 months), banana, jackfruit, coriander powder, etc. they are also using osmotic

dehydration techniques i.e., binding moisture with sugar for different fruits like amla, pineapple, etc.



- University of Agricultural Sciences, Raichur: they produced different types of analogues like Dal analogue, Rice analogue, Fortified Rice analogue, etc from the extruded products. These extruded products were enriched with different nutrients which provided extra nutrition and reduced the wastage.
- Institute of Animal Health and Veterinary Biologists: this institute provides diagnostic services and production of biological inducing vaccines required for the production and control of livestock and poultry diseases. They have produced different types of animal vaccines such as Quarter vaccine, Sheep pox vaccine, Goat pox vaccine, Swine fever vaccine, Rabies vaccine, Blue tongue vaccine, etc.
- Coffee Board :- Ministry of Commerce and Industry Government of India: they have done research related to impart drinking coffee, its effects on Diabetes and Parkinson's.





CONCLUSION:

It was a really great learning experience about different research institutes and their new research fields and products like microbial consortium, dried products, virgin vermi compost, animal vaccines, different agriculturally important insects, animal feed, arka products, etc.

Head of the Department
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Department of Microbiology
Industrial Visit, M. Sc 2020-22 batch

Sl No	Reg No	Name	Signature
1	MR200001	Afrina Laskar	Afrina
2	MR200002	Ankita Hore	Ankita Hore
3	MR200003	Arpitha SN	Arpitha
4	MR200004	Chandana.B	Chandana.B
5	MR200005	Chandana C	Chandana C
6	MR200006	Defeny D lopes	Defeny
7	MR200007	Durgashree J	Durgashree
8	MR200008	Gaanashree M	Gaanashree.M
9	MR200009	Godogula Kiranmayi Madhusudhan	Kiranmayi
10	MR200010	Guttina Sripriya Srinivas	Sripriya
11	MR200011	Harshini P	Harshini
12	MR200012	Hithin H Shetty	Hithin
13	MR200013	Kavya.R	Kavya
14	MR200014	Manisha Dembi	Manisha
15	MR200015	Md Dastageer Ahemad	Md Dastageer
16	MR200016	Nahida Kausar	Nahida Kausar
17	MR200017	Nikita Paul	Nikita Paul
18	MR200018	Nithya G	Nithya.G
19	MR200019	Pooja N	Pooja N
20	MR200020	Pooja V	Pooja V
21	MR200021	Prakriti B	Prakriti
22	MR200022	Prema.R	Prema.R
23	MR200023	Pushpa sri	Pushpa
24	MR200024	Ruchi Jhawar	Ruchi
25	MR200025	Ruqiya khamroon	Ruqiya
26	MR200026	S Jeevika	S Jeevika
27	MR200027	Sahana E	Sahana E
28	MR200028	Sandhya E	Sandhya
29	MR200029	Sarbashree Roy	Sarbashree Roy
30	MR200030	Sharanya B	Sharanya B
31	MR200031	Swagata Sanyal	Swagata Sanyal
32	MR200032	Syeda Nargis Mehdi	Syeda Nargis Mehdi
33	MR200033	Umashankar L	Umashankar.L
34	MR200034	Venkatesh R	Venkatesh.R
35	MR200035	Vennela C	Vennela C


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