VRUKSHA MITRA PROGRAMME CONDUCTED BY HORTICULTURE DEPARTMENT

SUB: Vruksha Mitra programme conducted by Horticulture and Botany and microbiology Departments.

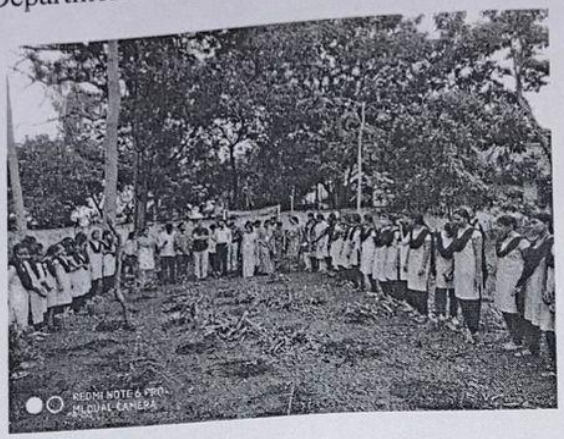
Horticulture department conducted a plantation programme on **13-09-2019** under the part of **VRUKSHA MITRA**. In this programme students from both the botany and horticulture departments have brought the ornamental plants.Each student has planted a single ornamental plant in Botany back garden

This programme was initiated by Our respected principal **Dr.C.Krishna Garu** and Vice principal **Sri.T.K.V.Srinivas Rao Garu**.

PRINCIPAL
P.R.Govt. College (Autonomous)
KAKINADA

Lecturer Incharge
Department of Horticulture
P.R.Govt College(A),KAKINADA

This programme Was conducted by the Lecturer incharge of Horticulture **Smt.T.Kalpana Garu** and Head of the Department of Botany **Smt.P.Sara Garu.**



Faculty of Zoology **Sri.L.K.V.Prasad Garu** and Lecturer incharge of Biotechnology **Smt.K.Anusha Garu** had participated in this programme almost **70 students** had taken part in this programme The main Aim of this programme is to conserve biodiversity and make environment eco friendly .

Field visit Report to Pandirimamidi on 07-12-19 .

T.Kalpana ,Lecturer in charge of Horticulture Reported regarding Field visit…

We went to Pandirimamidi Horticulture Research Station and Krushi Vigyan Kendra at Pandirimamidi on 07-12-2019. I.B.voc , II B.voc and II B.sc Horticulture students visited to pandirimamidi. 41 members of Students ,06 members of our staff went to Pandirimamidi.

Dr Manohar Prasad Principal Scientist Explains the History and importance of that Research Station. Dr Balakrishna senior scientist Explain about various crops in pandirimamidi Research Station. He Explains Grafting Techniques in Cashew nut . he Explains diseases in mirchi crop, He explain about Heliconium ornamental plants,turmeric crop,Rose crop,chrysanthemum crop, Rubber plantation , disease resistant Lemon varieties .our Students actively listening and learning all those things.

Scientist Explain about Rose cultivation and Diseases in Rose plants.

Dr. vengaiah sr scientist did a great work on palmera plants and he conducted research works on palmera plants from past ten years. he also prepares cooling units for Neera preparation and he also prepare 30

types palm products. He Explain the importance of palm products to our students. He also designs equipment for preparation of palm products with the help industrialists. This is the only Kendra throughout the India done research on palm plants. Our students also participated very interesting in this field visit.

Our students and Staff with Dr. vengaiah garu, scientist in Pandirimamidi Horticulture Research station

 s

Dr.Balakrishna garu , Scientist in Pandiri mamidi explain about Chrysathemum Cultivation and Diseases in Chrysathemum.He also Explain about Rubber plants cultivation.

Field visit to pandirimamidi Horticulture Research station on 07-12-2019 with students and staff.

BIOGENESIS-2019 ON EVE OF LOUIS PASTEUR'S BIRTHDAY

Event Date : 31/12/2019

A

CTIVITY REPORTBIOGENESIS-2019 ON

EVE OF LOUIS PASTEUR'S BIRTHDAY

ON 31-12-2019 DEPARTMENT OF

BOTANY & MICROBIOLOGY

OBJECTIVES:

- To acquire knowledge about microbial world
- To know about Microalgae
- To acquire knowledge about applications in Microalgae
- To obtain knowledge regarding nutraceuticals
- To know about applications of Microbiology
- To acquire knowledge about research in Microbiology

Conducted **Guest lecture** programme, the programme begins with prayer song and lighting the lamp by chief guest **Dr.A.SrinivasaRao** garu, principal of P.R. Govt. College (A) Dr.C .Krishna garu and faculty of Botany & Microbiology department.

Guest lecture is begin with power point presentation by Dr.A.SrinivasaRaogaru .He given information about Micro algae and research key point

- Micro algae or Microphytes are microscopic algae, typically found in freshwater and marine systems.
- Microalgae capable of performing photosynthesis are important for life on earth they produce approximately half of the atmospheric oxygen and use simultaneously the greenhouse gas carbon dioxide to grow photoautotrophically.

- It is possible to accumulate the desired products in microalgae to a large extent by changing environment factors like temperature,illumination,pH, co2supply, salt and nutrients.
- Microphytes also produce chemical signals which contribute to prey selection, defense and avoidance
- Cyanobacteria, Green algae and Diatoms are some of the examples of Microalgae.
- Microalgae are a rich source of Carbohydrates,protein,enzymes and fiber.
- Now a day's chlorella,like spirulina is mainly sold in health food stores and as a fish food.
- Microalgae are represented in sun protection and hair care products. Species that are used for Cosmetics are Ascophyllum nodosum, Alaria esculenta, Spirulina platensis etc

QUIZ:

At forenoon session, quiz was conducted on

- LouisPasteur was born on 1822
- PCR technique was discovered by-Karry B mullis
- souhern blotting technique is used to isolate –DNA
- LouisPasteur was died on -1895
- Louis Pasteurdiscovered vaccines for – Anthrax and Rabies
- ELISA test is based on –Antigen –Anti Body interaction

QUIZ BATCH: I,II,III MBC

GROUP- A	GROUP-B	GROUP-C	GROUP-D
B.SIDDHARDHA III MBC	G.VENKATA II MBC	S.SURESH III MBC	N.AKHIL III MBC
G.PRAVEEN I MBC	M.PARVATHI III MBC	B.SAMEENA I MBC	S.BENNY II MBC
ADHI LAKSHMI II MBC	K.VARA LAKSHMI I MBC	S.SIVA RAMAKRISHNA II MBC	R.SASTRY I MBC

OUTCOMES:

- acquired knowledge about microbial world
- known about Microalgae
- acquired knowledge about applications in Microalgae
- obtained knowledge regarding nutraceuticals
- known about applications of Microbiology
- acquired knowledge about research in Microbiology

P.R Government College, (A) Kakinada.

Field Visit to Sarpavaram with Horticulture Students and Staff on 14-02-2020.

Our Students of B.voc Horticulture and staff are visit Sarpavaram Olericulture fields on 14-02-2020. Total 40 members of Students and 4 members of Staff are visited to sarpavaram. In Sarpavaram Farmers grow green leafy vegetables like Palak, Methi, chukka leaves, Mint plants, Brinjal, Mirchi, Cauliflower, Flowering Plants likeTagetus petula, Jasmine, Rose Aromatic Plants like Maruvam and Davanum.

Our students are actively visited all farmers plants and they learn how to grow green leafy vegetables, which manures are used in their fields, how to cultivate different types of vegetables like Brinjal, Cauliflower, Mirchi etc. Our students understand which manures and fertilizers are used in their fields, and irrigation methods like Drip irrigation and Sprinkler irrigation etc.

In Sarpavaram some of the farmers used solar panels for solar energy production. this panels cost is Approximately 3,50,000. But the farmers said government give Subsidy on Solar panels arrange ment, Drip system manage ment and Sprinkler system management, we think this is a good initiative step for the economic growth of farmers.

First B.voc Horticulture Students and Second B.voc Horticulture Students and Final year Cluster students are visited to sarparam fields. The seed beds they are growing for different type of green leafy vegetables are very attractive. our students also watch that seed beds with curiosity.

Field visit Outcomes.

1. Our Students learn how to cultivate different types of green leafy vegetables like Palak, Methi, Chukka leaves, Gongura etc..
2. Our students also understand harvesting techniques from Farmers that which crop take how many days for germination and harvesting.
3. Our students also learn how to grow different types of vegetables like Brinjal, Mirchi, Cauliflower, Cabbage, Tomato etc.
4. Our students know about different types of flowers cultivation like Rose, Jasmine, Kaadamalli, Chrysanthemum, aromatic plants like Maruvam, Davanum etc.
5. Students also know how to prepare Form Yard Manure and compost manure and vermicompost for plants.
6. Students understand about conservation of soil fertility for a long time through organic Farming.
7. Our students also Understanding the harmful effects of Chemical Fertilizers and Pesticides on environment and also human health.

Field visit pictures.

Green leafy vegetable seed beds in Sarpavaram .

Our Students and Staff watch Sarpavaram Fields.

Our students in Palak. Methi, Brinjal fields.

Our Students in Jasmine Flower fields.

P.R Govt College (A), Kakinada.

Science Day celebrations on 20-2-2020.

Theme -Women in Science.

Our Horticulture Department celebrate National Science Day on 20-02-2020. Due to practical examinations in February 28, we are pre poned to this Activity. This year National science day theme is women in science.

Our 1st B.voc Horticulture , 2nd B.voc Horticulture and 1st B.SC Horticulture & 2nd B.SC Horticulture students are Participated in this celebrations.Total 15 Exhibits are Prepared by our students.

Some Impotrant Exhibits .

1.vertical farming

2. Central pivot irrigation system.

3. Agricultural practices.

4.Types of Irrigation Systems.

5.Solar Drip irrigation.

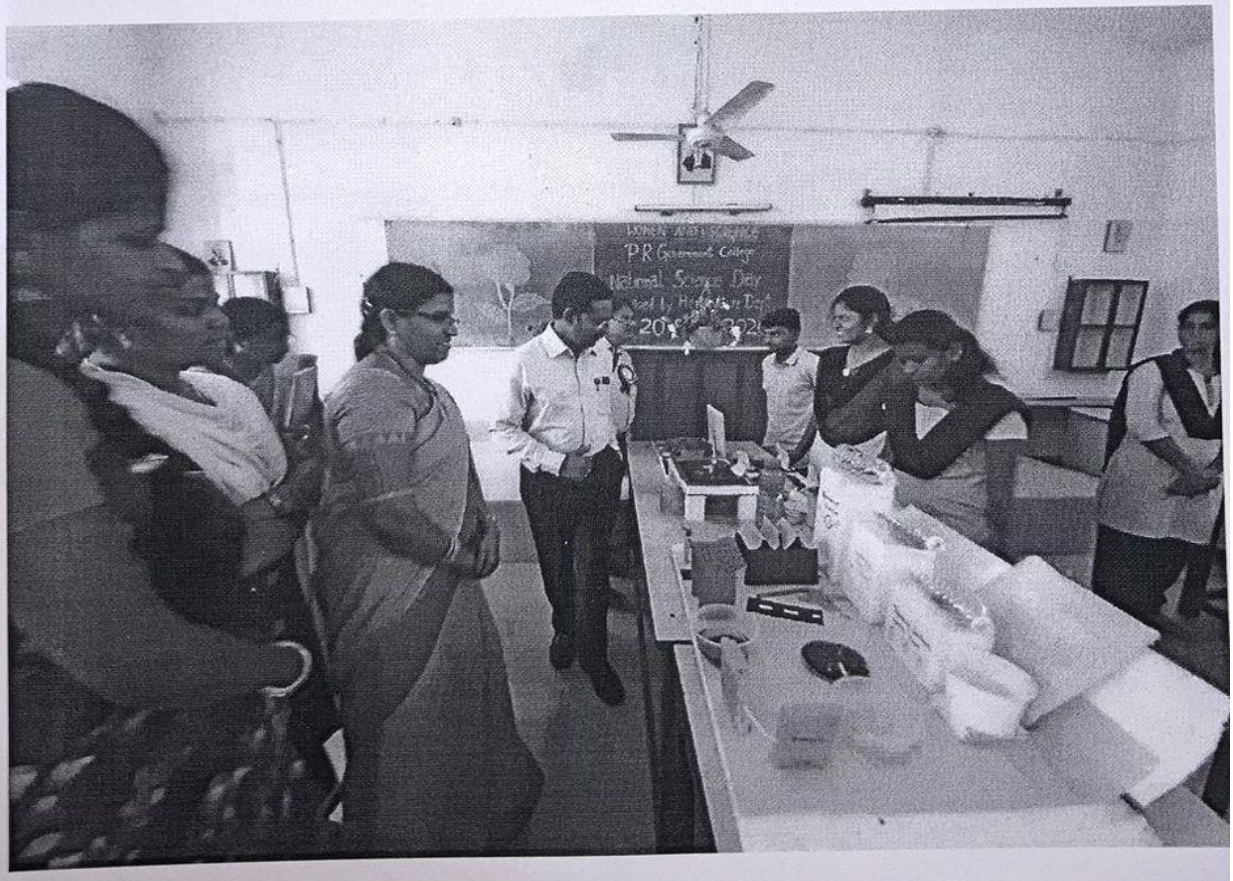
6.Sewage treatment.

7.Green House management.

T. Satyanarayana
22/02/2020.

Lecturer Incharge
Department of Horticulture
P.R.Govt College(A),KAKINADA.

Science Day celebrations by Horticulture Department on 20 -2-2020.



Our Principal Dr.C Krishna garu with our Horticulture students.

Our Staff and Students with our principal sir and chief Guest.

Afternoon session prize distribution programme was conducted by all science departments. Dr. Ramani garu, Former principal of Rajahmundry college and Bhagavannarayana garu ,Scientist and Our college principal Dr.C.Krishna garu Distributed Prizes to our Students.

Prize winners with principal sir and chief guests and staff.

Objectives of this programme.

1.To encourage the students towards science and Technology.

2.To bring awareness on latest development in science.

3.To promote the significance of technology for future generations.

4 To give an opportunity to the Students to show their scientific interests.

5.To Popularize Research.