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DEPARTMENT OF BOTANY & MICROBIOLOGY

EXTENSION ACTIVITIES
JANMABHOOMI MAAVOORU-
3rd& 5th-January-2019

- I have visited ward- 9 on the event of janmaboomi I went to sri sarada govt school, Kakinada.
- With all our staff we conducted many events to students.
- We conducted quiz and given prizes to them
- We also conducted few games to encourage them and motivate them for extra-curricular activities
- All students are actively participated in all events like Rangoli,games,class room activities etc.

- On the event of janmabhoomi we have explained
- Government schemes which are highly beneficial to all
- Students We are participated in janmabhoomi pledge.
- P.R Govt college students also participate in pledge.
- We have explained about student oriented activities
- All students are actively participated in that programme.
- They learned about govt programmes and how they have to utilize for their growth.

Activity Report: DAY-2
On January 5th I have visited ward-5th that is nearer to pagoda govt school.
We distributed few materials to differently abled students.
We conducted games and singing to all students.
We also visited carporator house nearer that ward
We visited few houses and taken report of present govt programmes and schemes
We sent our report to particular authority.

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SWATCHBHARATH

We have conducted swachbharat at PRGC in Botany department

We have cleaned Botany garden and surroundings with all biology students

Saturday afternoon we engaged with swachhbharat programme along with students for 2 hours

Students learned that surroundings should be cleaned then only they are ready to learn more knowledge. Because health & wealth are precious to life

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ONE DAY WORKSHOP ON SMART LIFE SCIENCES

OBJECTIVES OF THE PROGRAMME:

1. To create awareness about latest developments in life sciences
2. To develop learning skills in biology students
3. To enhance practical skills through workshop.
4. To know about the recent techniques in life sciences.

TOPICS COVERED:

- Genetic engineering or Gene cloning

In this topic covered major points:

Steps in genetic engineering:

1. Isolation of target DNA
2. Selection of suitable molecular vector
3. Preparation of recombinant DNA
4. Selection of suitable host cell
5. Preparation of competent host cell
6. Transformation
7. Selection of transformed cells
8. Mass culture of transformed cells
9. Isolation of rDNAs
10. Gene libraries

OUTCOME OF THE PROGRAMME:

Students are learned about latest methodology in life Students studied about tissue culture techniques.

Students learned about the process of gene cloning.

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Guest lecture by Prof. D. Raghava Rao garu on Horticulture practices

Guest lecture by Prof. D. Raghava Rao garu on Horticulture practices. He explained about horticulture development in India.

Students learned about history and development of horticulture and its application in agricultural field throughout AP

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ALTERNATE ENERGY RESOURCES FOR SUSTAINABLE ENVIRONMENT-
14TH& 15TH, FEBRUUARY, 2019

Attended National Seminar & Workshop

- Guest lecture given about alternate energy resources instead of fossil fuels
- Because fossil fuels are non-reliable energy resources which can be replaced by renewable energy resources by solar, wind and biological energy.
- In many countries fossil fuel is replaced by renewable fuels like bio-gas, bio-diesel etc.

Final year CBZ students made a model on bio-gas production plant by using kitchen garbage

- Final year CBZ students made a poster on bio-diesel extracted from jadropa curcusa
- Jadropa seeds produces bio-diesel
- In Kakinada many acres are given for cultivation of Jadropa

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GRAMADARSINI-24thNOVEMBER, 2018

- We went to unduru panchayithi and visited another 2 villages
- I started here with 5 students
- We have visited unduru government high school and made a survey on studying students and their available facilities there
- All students are actively participated.
- They are given the report on their progress in curricular and extracurricular activities
- We also visited anganvaadi kendram made a survey on children of nursery students.
- We also visited chandrannapalem, nearer village

- We made a survey on constructed and sanctioned houses
- We also made a survey on roads and education facilities and health survey
- We visited every house and explained about government schemes
- At last conducted a meeting on challenges and problems of people living in particular village
- We all submitted our report to samarlakota panchayat office.

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Field trip to kadiyam nursery on-december 1st 2018

we went to kadiyamsathyadeva nursery.

We went with final year students to visit flora in nursery

We have observed many mesophytes, epiphytes, xerophytes etc. We have also observed grafting in ornamental plants.

We observed many medicinal plants also.

Observation of plants at nursery:

We have observed plants like wall kreepers, jekmanshia, rakhiflower, ricosperma, garliclipper, petriya, sureenamcherry, raavichettu (bonsai), singonium, orchids, costus, cyportia

We also observed zamiyaflorida, malphizia, sensevirea, screw pine.

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Horticulture BOS on 5th November, 2018

- Approved the syllabus of BOS Horticulture for 2018-2019
- Resolved for change in syllabus according to the new trends in Horticulture
- Syllabus is framed for three years of B.Voc Horticulture students
- Practical syllabus also designed for three years

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Project work with final year students on "FLORA OF PRGC"

our project is mainly to observe and analyse the economic importance of flora of PRGC

To enumerate the number species of plants available in the habitat of PRGC

To study the economic importance of available plants

To study the taxonomy of different plants

To study the morphology of surrounding plantsTo study the floral characters of different plants

Learning outcomes:

We have observed the flora of PRGC

We observed the no. of sps of plants available in the habitat of PRGC

Along with the morphology and floral characters, taxonomy of different sps in PRGC were studied.

We studied the economic importance of observed plants in PRGC.

Conclusion:

By the above observation we have noticed that PRGC is well diversified with different flora which includes different hydrophytes,xerophytes,mesophytes,pteridophytes and some economically important plants.

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FIELD VISIT TO CORINGA MANGROOVES ON DECEBER 5th

We visted coring with horticulture and BZC final year students and other botany faculty.

Coringa is 18kms from the city of Kakinada

The sanctuary is a part of Godavari Eastuary and has extensive mangrove and dry deciduous forest

The average temperature of this region is 17 c to 40 c

There are 35 sps of plants belongs to 24 families

The plant sps that are commonly found are

1.Avicennia officinalis

2.Avicennia marina

3.Avicennia alba

4.Exocaria agallocha

5.Rhizophora mucranata

6.Ceriops decandra

7.Brugeiera gymnorhiza

8.Lumnitzera recemosa

9.Sonaratia apetala

10.Rhizophora conjugate

11. Agecerascorniculatum

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Many birds are also located at this region it is the place of rich biodiversity

Students learned that they are shoreline protection

Mangroves helps to prevent erosion by stabilizing sediments with their tangled root system

They maintained water quality and clarity.

The forests also serve as nurseries for many fish sps including coral reef fish and coastel protection

The dence root system of mangrove forest trap sediments flowing down rivers and off the land

SAVE EARTH WITH RICH BIODIVERSITY

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SEMINAR BY STUDENTS

ACTIVITY REPORT ON SEMINAR IN BOTANY DEPARTMENT:

Seminar conducted on CALVIN CYCLE dated on 10/01/19.

Quiz conducted in department of botany with final year B.Z.C. students dated on 11/01/19.