

Venkatesh Mahajan Sr. College Osmanabad
Department of Botany
Annual Report 2018-19

- One day short study tour to Gurukul Vaidik Sanskrit Vidyalaya campus and Ramling temple at Yedshi was organized on 24/08/2018.
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Students collecting plant specimens



Students with staff with delegate of Ramling Gurukul informing the students about medicinal plants

Students of B.Sc. II who have botany optional subject were carried to Gurukul Vaidik Sanskrit Vidyalaya campus and area around Ramling temple for collection of medicinal plants, algae, bryophytes and pteridophytes. Students were escorted by Ms Linge A. S. and Shri Shinde A. R. of Botany department with courteous companionship of Ms Neha Kapse of Micro-Biology department.

- The tour started from the college campus around 8.30 AM. We first reached the Gurukul Vaidik Sanskrit Vidyalaya campus for collection and observation of rare species of plants. The coordinator of Vidyalaya helped and guided us to see the campus which was full of medicinal plants. Students observed and collected *Gulvel*, *Terminalia*, *Cymbopogon*, *Polyalthia –longifolia*, *Ashwagandha*, *Dikmali* from the Vidyalaya campus. The coordinator of


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- Vidyalaya gave useful information on medicinal uses of the plants.
- From the same campus students collected the two species of the wood rot fungi. Students also observed the wild varieties of plants around the campus.
- On 11.00 AM we headed to the Ram Linga Temple area. The premises of temple and area around it has lush green jungle, water stream and water stream which holds many species of algae, (*Nostoc*, *Spirogyra*), Bryophytes (*Marchantia*, *Riccia*, *Funaria*), Pteridophytes, (*Lycopodium*, *Adiantum*, Ferns), Angiosperms (*Terminalia –arjuna*, *Bauhinia- recemosa*, *Ficus*, etc). Students enthusiastically observed the plant species and collected some of them for practical use. It was enriching experience for students where they practically observed the rare plant species as well as they got acquainted with the natural abode of the plant species.

- **Outdoor Teaching**



The chalk and duster teaching is confined to only classrooms. Students are more benefited by the in situ teaching where they actually can see and handle the plant specimens in their nature habitat. Department of botany often carries out teaching in college campus so as to acquaint the students about the flora occurring in vicinity.

Students asking queries to the faculty



Faculty giving the knowledge of plants in college premises

● Students and Teacher Participation in Avishkar 2019

Dr. Babasaheb Ambedkar Marathwada University has started the Avishkar to develop innovative research skills among the students and teachers. Department of Botany have taken keen interest in this respect not only students, teachers have participated enthusiastically in Avishkar 2019.

Department of Botany had make four research project for Avishkar 2019.

The Details of it are as follows.

1. Making of Bullet Proof Jacket from Coconut Shells.

Made by : Betalse
Rushikesh (B. Sc. II)

This is made by the students aiming at the possible commercial usage of waste coconut shell for the making of the bullet proof jackets

2. Mycorrhizae Occuring in Roots of Fig Tree

Made By :Kamble
Samapada (B. Sc. II)

This project was aimed at the exploiting possibilities of Mycorrhizae in increasing the yield of the fig tree



3. Making of Food Supplements from Soyabean Husk

Made By : Vinayak Mohite (B. Sc. II) Day by day the prize of fodder is increasing. To provide an possible option to convention farming this projet successfully made by our student.

Teachers Participation

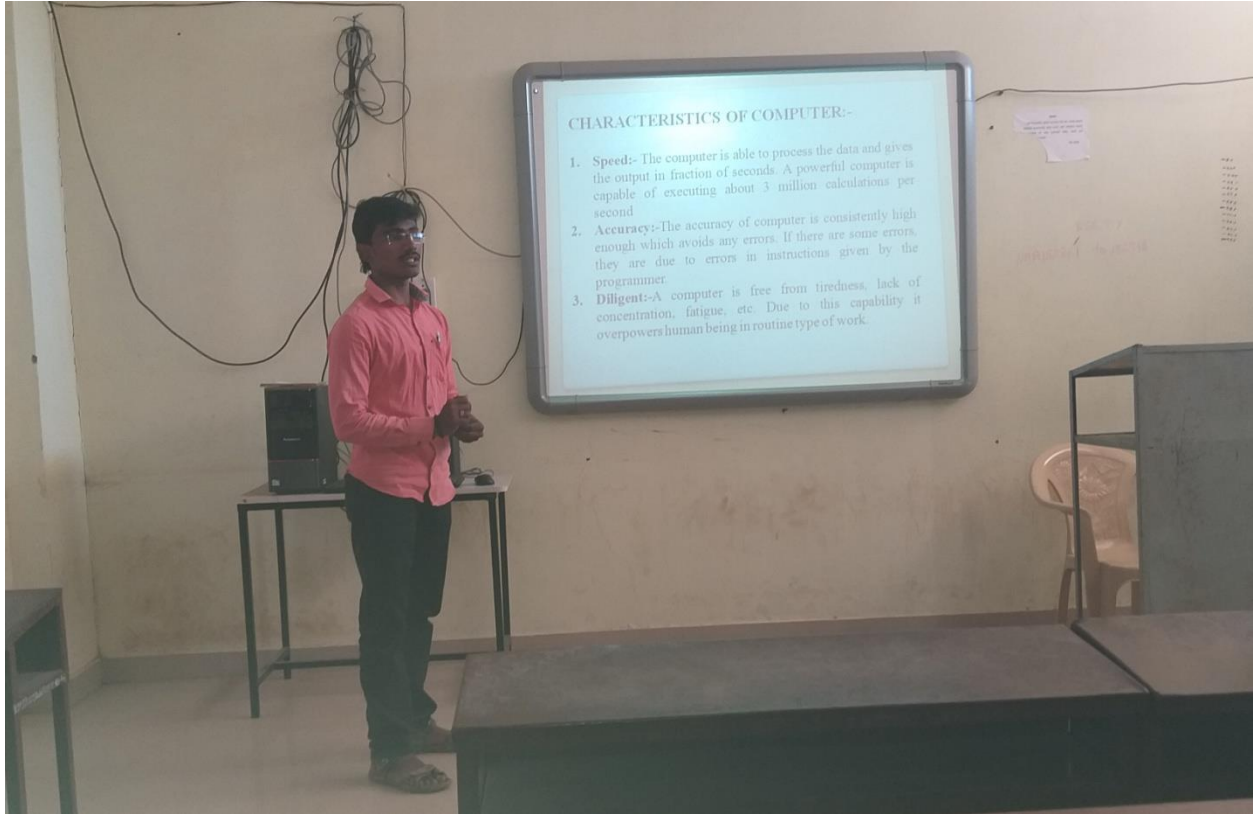


Utilization of Botanical Studies in Forensics

Botany is considered as basis science therefore scope of it is limited to academics and research work. Using botanical studies in forensic is altogether new concept in India.

Seminars of B. Sc. III Year Students

Seminars of B. Sc. III Year Students Seminars are meant for developing personality of students and give them exposure for creating stage courage. Students have enthusiastically participated in seminars this year.



Manoj Dudhbhate giving seminar on the Basic Computer for Bioinformatics



Irfan Pathan Giving Seminar on Bioinformatics



Rohini Vharkate Giving Seminar on Sex linked Inheritance



Mane Vaishnavi giving Seminar on Data Collection

A Visit to Siddhivinayak Soil Testing lab Osmanabad.

- Department of Botany organized lab visit to Siddhivinayak Soil Testing lab Osmanabad on Monday 11-02-2019. This lab visit was aimed at the acquainting to the B. Sc. II year students about various aspects of the soil testing and it's benefits to the farmers.
- The Osmanabad region is semi arid region with annual rainfall of 650mm to 700mm. More than 70% of people are involved in farming and related activities. Apart from this specialty Osmanabad region has another identity in the form of farmer's Suicide.
- Most of the farmers are following age old methods of farming where there is excessive of use of



Students knowing the sampling of the soil in lab through the delegates of the lab



Students knowing the Mechanism behind the Auto Titration Machine used for testing of Nitrogen content in soil.

- fertilizers and pesticides is common thing. It is leading to increasing the cost of the farming and making the valuable soil barren.



- If selection of the crop and fertilizers and pesticides is done on the basis of soil testing is done it can increase the production and lower the cost of farming. Taking this in view we have carried out visit to Siddhivinayak Soil Testing lab Osmanabad. During this

visit students were immensely benefited by knowing the practical application of the knowledge they are taught in classroom. Apart from this they come to know the importance of soil testing.



- The delegates of the lab have given practical knowledge of all the instruments used in soil testing. The instruments were state of the art such as Spectrometer, Double Distillation, Colorimeter, Auto Titration Machine, etc.



Students and staff with delegates of Sidhivinayak Soil Testing Lab Osmanabad

- Students were accompanied by Smt Linge Anita and Shri Abhay Shinde . The students gave positive feedback of the visit and promised us they will also do the soil test if their field for selection of the crop, pesticides and fertilizer.

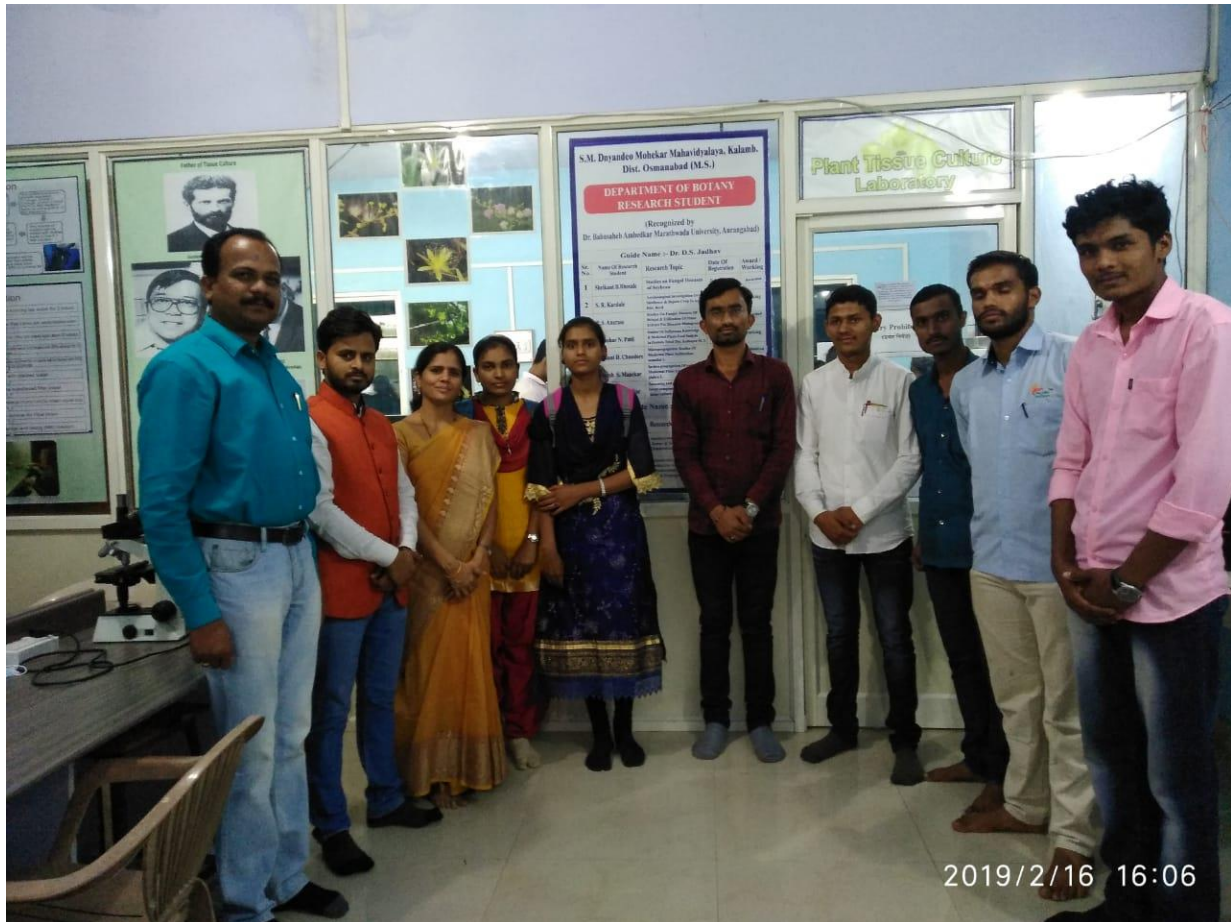
Students Participating in Poster Presentation Competition at University Sub Campus Osmanabad

Students Participating in Poster Presentation Competition at University Sub Campus



One Day Workshop on Techniques of Tissue Culture at S. M. D. M. Mahavidyalaya, Kalamb.

Students of B. Sc. IIIrd year and faculty Smt. Linge A. S. participated in one day workshop on Plant Tissue Culture organized by S. M. D. M. Mahavidyalaya, Kalamb. on 16/02/2019. Students have immensely benefited in this workshop by knowing and handling the different techniques of tissue culture. In this workshop student students came to know about different trends in tissue culture.




Smt Anita Linge with students and staff of S.M.D.M. Mahavidyalaya Kalamb



One of the busy session of the one day workshop



Convener of the workshop of Smt. Archana Mukhedkar showing the techniques of Plant Tissue Culture


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