



## PITHAPUR RAJAH'S GOVERNMENT COLLEGE

An outcome based, NAAC accredited, green autonomous institution

4th Cycle NAAC accreditation grade: B++

Affiliated to Adikavi Nannaya University

Opp. Mc Laurin School, Raja Ram Mohan Roy Road, Kakinada 533001, Andhra Pradesh, India

E-mail: kakinada.jkc@gmail.com, Tel: 0884-2379480



# DEPARTMENT OF BOTANY

## ACTIVITIES IN 2023-24

| <b>DATE</b> | <b>ACTIVITY</b>  |
|-------------|--|
| 2-12-2023   | GUEST LECTURE BY<br>DR.V.PADMAVATHI<br>ASST.PROF, AKNU |
| 10-02-2024  | FIELD TRIP TO SUDIKONDA<br>FOREST                      |
| 20-02-2024  | NATIONAL SCIENCE DAY<br>MEDICINAL PLANTS EXHIBITION    |



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## DEPARTMENT OF BOTANY

### ACTIVITY REPORT ON

### GUEST LECTURE

ON

## **APPLICATIONS AND PROSPECTS OF PLANT TISSUE CULTURE**

**BY**

**Dr. V.Padmavathi**

**Asst.Prof in Botany**

**Adikavi Nannaya University**

**2023-24**

## GUEST LECTURE

### APPLICATIONS AND PROSPECTS OF PLANT TISSUE CULTURE

DATE:- 02-12-2023

Department of Botany organised a Guest Lecture on Applications and prospects of Plant Tissue Culture by Dr. Vanapalli Padmavathi Asst.Prof in Botany, Adikavi Nannaya University on 02-12-2023 under the Headship of Dr.Chikile John Samuel.

The lecture was delivered including the various uses of Tissue Culture techniques in plant development particularly in crops. These includes Commercial production of plants used as crops, Landscaping, Florists etc., The Students from III B.Sc BZC, III B.Sc MBC were participated in this lecture and gained knowledge in various aspects of Tissue culture. This technique may be helpful for them to enhance the skill and also motivated the students to improve their ability to become an entrepreneur through developing large number of plants within a short span of time. This Tissue culture technique also helpful to regenerate the entire plant from a single cell or tissue or an organ. This helps to generate disease resistant and pest resistant plant which increases the yield of the crop. A total of 43 students participated in this lecture.

The list of the candidates participated and Photographs are mentioned below.

## LIST OF PARTICIPANTS

Faculty

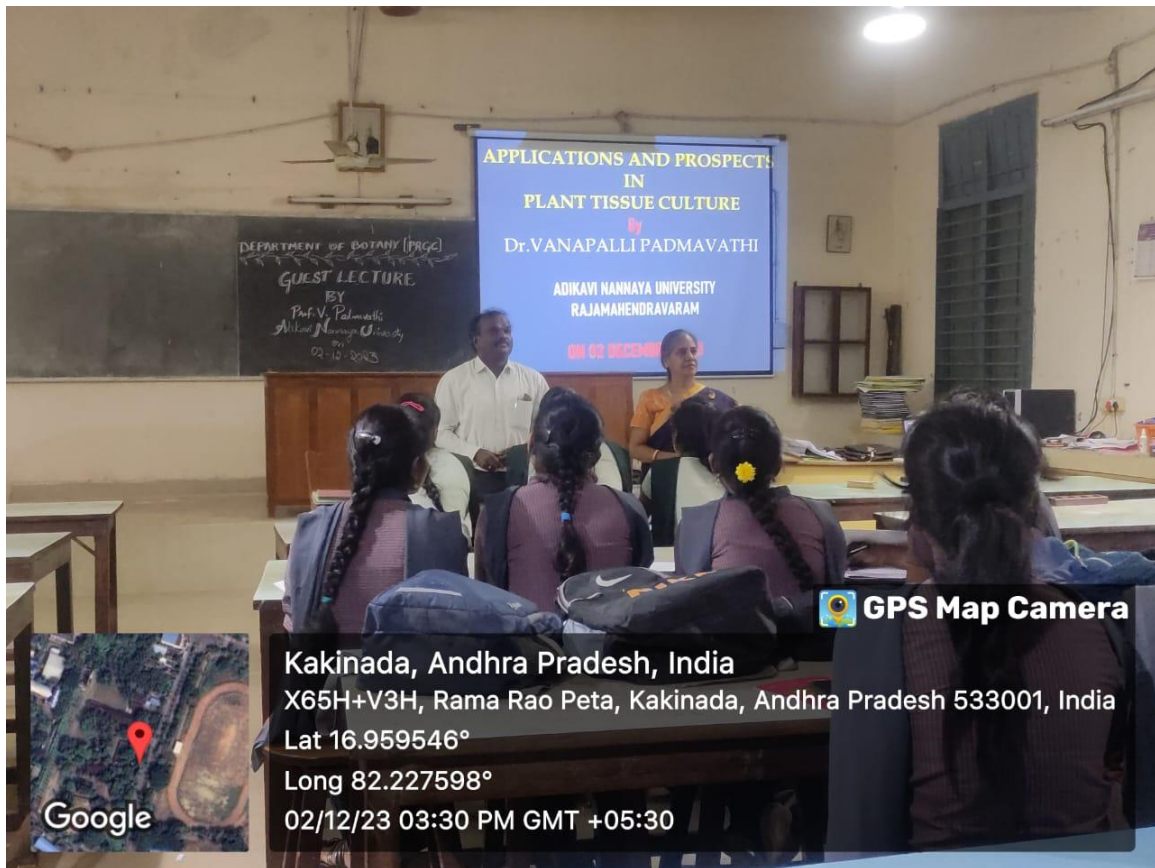
1. ~~M. Ganga~~
2. ~~B. Ganga~~
3. M. Ganga Bhawari.
4. H. Seetha siva parvathi
5. D. Asha Rama Vign
- 6.
- 7.

| <u>S.NO</u> | <u>Name of the Student</u> | <u>Class</u> | <u>Reg. No</u> | <u>Signature</u> |
|-------------|----------------------------|--------------|----------------|------------------|
| 1.          | Ch. Mahalakshmi            | III MBC      | 2220809        | Ch. Mahalakshmi  |
| 2.          | T. Hemadurga               | III MBC      | 2220810        | T. Hemadurga     |
| 3.          | T. L. prasanna             | III MBC      | 2220826        | T. L. prasanna   |
| 4.          | P. Sailaja                 | III MBC      | 2220824        | P. Sailaja       |

| <u>S.NO</u> | <u>Name of the Student</u> | <u>Class</u> | <u>Reg. No</u> | <u>Signature</u>    |
|-------------|----------------------------|--------------|----------------|---------------------|
| 5.          | D. Naga Manika             | III MBC      | 2220818        | D. Naga Manika      |
| 6.          | Ch. Sai Santoshi           | III MBC      | 2220808        | Ch. Santoshi        |
| 7.          | A. Manasa                  | III MBC      | 2220805        | A. Manasa           |
| 8.          | K. Anitha Rani             | III MBC      | 2220804        | K. Anitha Rani      |
| 9.          | B. Lavanya                 | III MBC      | 2220802        | B. Lavanya          |
| 10.         | N. Rajya Lakshmi           | III MBC      | 2220807        | N. Rajya Lakshmi    |
| 11.         | D. Sabitha                 | II BZC-I     | 2220914        | D. Sabitha          |
| 12.         | M. Lakshmi Prasanna        | II BZC-I     | 2220904        | M. Lakshmi Prasanna |
| 13.         | V. Adhiti                  | II BZC-I     | 2220913        | V. Adhiti           |
| 14.         | J. Ribka Neelima           | II BZC-I     | 2220915        | J. Ribka Neelima    |
| 15.         | V. Devine Blessy           | II BZC-I     | 2220905        | V. Devine Blessy    |
| 16.         | K. Nandini                 | II BZC-I     | 2220936        | K. Nandini          |
| 17.         | M. Shireesha               | II BZC-I     | 2220939        | M. Shireesha        |
| 18.         | N. Sindusha Durga          | II BZC-II    | 2224125        | N. Sindusha Durga   |
| 19.         | K. Sandya                  | II BZC-II    | 2220924        | K. Sandya           |
| 20.         | T. Bhudevi                 | II BZC-I     | 2220923        | T. Bhudevi          |
| 21.         | C. Anitha                  | II BZC-II    | 2224123        | C. Anitha           |
| 22.         | C. Priyanka                | III B.Z.C-II | 2224113        | C. Priyanka         |
| 23.         | T. Vikhil                  | III B.Z.C-I  | 2220932        | T. Vikhil           |
| 24.         | K. Anil                    | III B.Z.C-I  | 2220944        | K. Anil             |

|     |                          |                |         |                          |
|-----|--------------------------|----------------|---------|--------------------------|
| 25. | G. Ganesh                | II BSC BZC-I   | 2220901 | G. Ganesh                |
| 26. | Mitharun                 | II BSC (BZC-I) | 2220919 | Mitharun                 |
| 27. | T. Venkatesh             | II BSC (BZC-I) | 2220902 | T. Venkatesh             |
| 28. | B. Jeavan pratash dave   | II BSC (B.Z.C) | 2224107 | B. Jeavan pratash dave   |
| 29. | O. Thrishya              | II BSC (B.Z.C) | 2224116 | O. Thrishya              |
| 30. | Ch. Naveji               | II BSC BZC-II  | 2224101 | Ch. Naveji               |
| 31. | V. Ravi Kumar            | II BSC BZC-I   | 2220931 | V. Ravi Kumar            |
| 32. | A. Sumanth               | II BSC BZC-I   | 2220910 | A. Sumanth               |
| 33. | A. Sumanth               | II BSC BZC-I   | 2220929 | A. Sumanth               |
| 34. | P. Venkatesh             | II BSC BZC-I   | 2220930 | P. Venkatesh             |
| 35. | K. Santosh               | II BSC BZC-II  | 2224111 | K. Santosh               |
| 36. | G. Vaishna Mohan         | II BSC BZC-I   | 2224115 | G. Vaishna Mohan         |
| 37. | J. Hrudanga Reddy        | II BSC BZC-I   | 2224119 | J. Hrudanga Reddy        |
| 38. | N. Ganesh                | II BSC BZC-I   | 2224105 | N. Ganesh                |
| 39. | K. Jayababu              | III MBC        | 2220814 | K. Jayababu              |
| 40. | J. Divya                 | III MBC        | 2220801 | J. Divya                 |
| 41. | P. Sri Omaheswara Prasad | III MBC        | 2220832 | P. Sri Omaheswara Prasad |
| 42. | J. Sini Chakraborty      | III MBC        | 2220816 | J. Sini Chakraborty      |
| 43. | T. Nageswararao          | III MBC        | 2220812 | T. Nageswararao          |

## PHOTOGRAPHS DURING THE LECTURE





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## DEPARTMENT OF BOTANY

### ACTIVITY REPORT ON

### NATIONAL SCIENCE DAY

## **MEDICINAL PLANTS EXHIBITION**

## **ANVESHAN-2024**

**BY**

**Dr. V.Padmavathi**

**Asst.Prof in Botany**

**Adikavi Nannaya University**

**2023-24**

## MEDICINAL PLANTS EXHIBITION ON NATIONAL SCIENCE DAY

**DATE:- 28-2-2024**

Department of Botany organized National science day on 28-02-2024 in LAB-I & LAB-II. On the occasion of this Botany department organized Medicinal plant exhibition. Approximately 200 medicinal plants along with their medicinal values.

The main moto of the exhibition is to create awareness about Endangered and Extincting plant species (which includes Strhchonus Nux vomica, Aristolochia bracteolate, Albizzia lebbeck, Alpinia galanga, Aristolochia indica, Munnapruriens, Tinospora cordifolia, Viola suffruticosa, Cissus quadrangularis, Sphaeranthus indicus etc.) among students and others. Many of the students from other colleges and schools visited the Medicinal plant exhibition and aquired a lot of knowledge. As a part of National science day some of the students were participated in poster presentations and exhibited their models like Drip Irrigation and medicinal values of Millets etc., The Principal Dr.B.V.Thirupanyam sir inaugurated this programme. Students of B.Sc Hons Botany, M.Sc Botany, HBC & the faculty members of the Department actively participated in this event.



**Students Exhibits**



**Students Exhibits**



**Inauguration of Medicinal Plants Exhibition**



**Medicinal Plants Exhibited in Botany Laboratories**



**Students from different Schools and Colleges Visiting Medicinal Plant Exhibition**



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## DEPARTMENT OF BOTANY

### ACTIVITY REPORT ON

### FIELD TRIP

(Study of Medicinal Plants Diversity in Sudikonda Forest)

**2023-24**

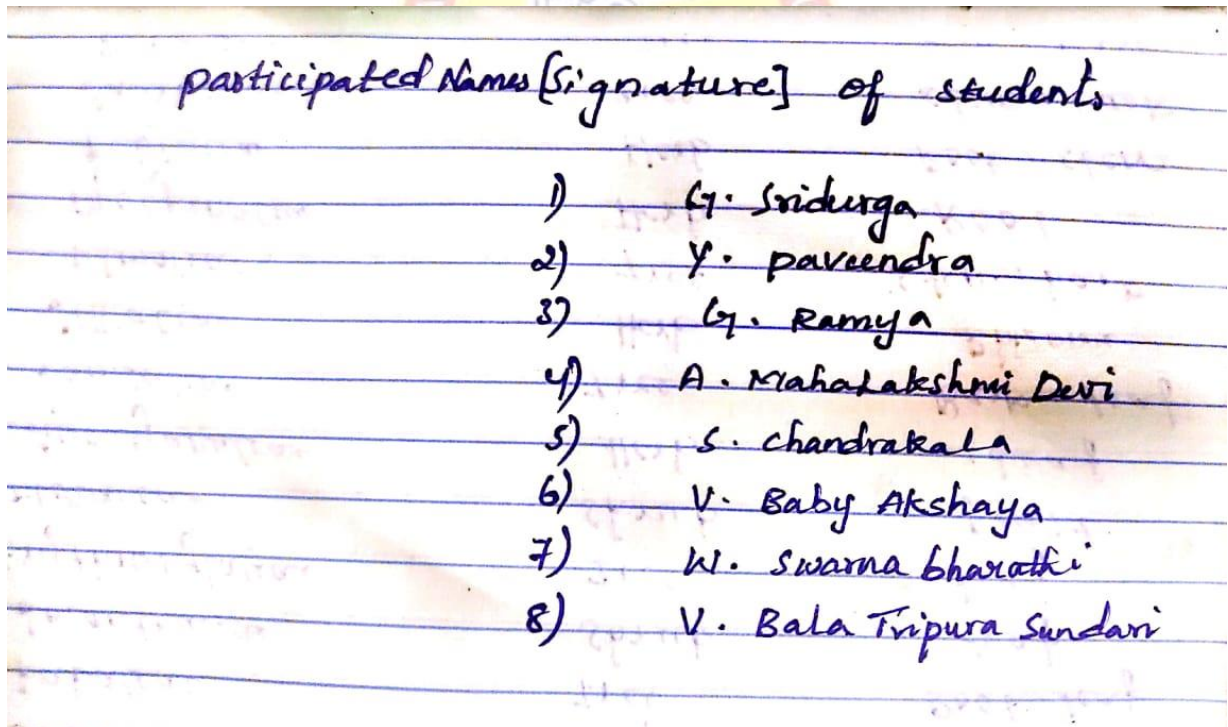
## FIELD TRIP

### (Study of Medicinal Plants Diversity in Sudikonda Forest)

DATE:- 10-2-2024

Department of Botany organized a Field Trip on 10-02-2024 of Medicinal plants diversity in Sudikonda forest with two Faculty members to visit the medicinal plants. 8 students from Final M.Sc Botany visited the diversity in Sudikonda forest. Approximately 50 plant species were collected for Herbarium preparation and preserved in the Department of Botany.

### List of the Students participated



| participated Names [Signature] of students |                         |
|--|-------------------------|
| 1)   | G. Sridurga             |
| 2)   | Y. pavendra             |
| 3)   | G. Ramya                |
| 4)   | A. Mahalakshmi Devi     |
| 5)   | S. Chandrakala          |
| 6)   | V. Baby Akshaya         |
| 7)   | W. Swarna Bhaxathi      |
| 8)   | V. Bala Tripura Sundari |

## LIST OF THE MEDICINAL PLANTS COLLECTED

List of plants that are collected in Sudikonda forest

|    | scientific name                | Family        | Habit | Part used        |
|----|--------------------------------|---------------|-------|------------------|
| 1. | <i>Aegle marmelos</i>          | Rutaceae      | Tree  | Fruit            |
| 2. | <i>Andrographis paniculata</i> | Acanthaceae   | Herb  | whole plant      |
| 3. | <i>Ailanthus excelsa</i>       | Simaroubaceae | Tree  | Bark, leaf       |
| 4. | <i>Adathoda vasica</i>         | Acanthaceae   | Shrub | leaf             |
| 5. | <i>Alangium salviifolium</i>   | Labiatae      | shrub | root, stem, leaf |
| 6. | <i>Acalypha indica</i>         | Euphorbiaceae | Herb  | leaf, stem       |
| 7. | <i>Abutilon indicum</i>        | Malvaceae     | Shrub | Root             |
| 6. | <i>Adina cordifolia</i>        | Rubiaceae     | Tree  | stem             |

|    |                                  |                  |          |              |
|----|----------------------------------|------------------|----------|--------------|
| 9  |                                  |                  |          |              |
| 10 | <i>Aristolochia bracteolata</i>  | Aristolochiaceae | Herb     | leaf, root   |
| 11 | <i>Aristolochia indica</i>       | Aristolochiaceae | Herb     | Root         |
| 12 | <i>Sambucus vulgaris</i>         | ponceae          | shrub    | Root         |
| 13 | <i>Chlidanthus collinus</i>      | Euphorbiaceae    | Tree     | leaf         |
| 14 | <i>Cassia boudierii</i>          | Cesalpiniaceae   | Tree     | stem         |
| 15 | <i>Calotropis gigantea</i>       | Asclepiadaceae   | shrub    | Root, bark   |
| 16 | <i>Casia auriculata</i>          | Cesalpiniaceae   | shrub    | Root, bark   |
| 17 | <i>Celastrus paniculatus</i>     | Celastraceae     | shrub    | leaf         |
| 18 | <i>Oxycoccus bulbifera</i>       | Fabaceae         | creepers | rhizome      |
| 19 | <i>Dioscorea cinerea</i>         | Liliaceae        | Tree     | Root, leaf   |
| 20 | <i>Dioscorea filicata</i>        | Erythroxylaceae  | shrub    | leaf         |
| 21 | <i>Erythroxylum monogynum</i>    | Rubiaceae        | Tree     | leaf         |
| 22 | <i>Ficus glomerata</i>           | Apocynaceae      | Herb     | leaf         |
| 23 | <i>Gymnosia sylvatica</i>        | Lamiaceae        | Tree     | Bark, leaf   |
| 24 | <i>Gmelina arborea</i>           | Ulmaceae         | Tree     | rhizome      |
| 25 | <i>Gleichenia superba</i>        | Apocynaceae      | Herb     | stem, bark   |
| 26 | <i>Heloptelia integrifolia</i>   | Rubiaceae        | Herb     | Root         |
| 27 | <i>Hemidesmus indicus</i>        | Lauraceae        | Tree     | stem, bark   |
| 28 | <i>Hedyotis puberula</i>         | Rutaceae         | Tree     | stem, bark   |
| 29 | <i>Litsea gluterosa</i>          | Rubiaceae        | Herb     | stem, bark   |
| 29 | <i>Naringi tremulata</i>         | Rutaceae         | Tree     | stem, bark   |
| 30 |                                  |                  |          |              |
| 31 | <i>Opuntia stricta</i>           | Cactaceae        | shrub    | Fruit        |
| 32 | <i>Oroxylum indicum</i>          | Bignoniaceae     | Tree     | stem, bark   |
| 33 | <i>Parvella indica</i>           | Rubiaceae        | shrub    | stem         |
| 34 | <i>Putranjiva roxburghii</i>     | putranjivaceae   | Tree     | leaf         |
| 35 | <i>Plumbago Zeylanica</i>        | Plumbaginaceae   | shrub    | Root         |
| 36 | <i>Pterocarpus marsupium</i>     | Fabaceae         | Tree     | leaf         |
| 37 | <i>Pueraria tuberosa</i>         | Fabaceae         | Herb     | tuber        |
| 38 | <i>Piper nigrum</i>              | piperaceae       | climber  | Fruit        |
| 39 | <i>Pergularia daemia</i>         | Asclepiadaceae   | Herb     | Root         |
| 40 | <i>Plumeria subera</i>           | Apocynaceae      | shrub    | Flower       |
| 41 | <i>Prosopis spicigera</i>        | Mimosaceae       | Tree     | stem         |
| 42 | <i>Rauwolfia serpentina</i>      | Apocynaceae      | shrub    | Root         |
| 43 | <i>Solanum anguivi</i>           | Bignoniaceae     | Tree     | stem, bark   |
| 44 | <i>Smilax Zeylanica</i>          | Smilacaceae      | shrub    | Tuber        |
| 45 | <i>Sterculia urens</i>           | Malvaceae        | Tree     | stem         |
| 46 | <i>Sphaeranthus indicus</i>      | Asteraceae       | Herb     | Root         |
| 47 | <i>Trichosanthes dioica</i>      | Cucurbitaceae    | Herb     | Tuber, fruit |
| 48 | <i>Trianthema portulacastrum</i> | Aizoaceae        | Herb     | leaf         |
| 49 | <i>Tinospora cordifolia</i>      | Menispermaceae   | shrub    | Root, leaf   |
| 49 | <i>Vanda tessellata</i>          | Orchidaceae      | Herb     | leaf, root   |
| 50 | <i>Wrightia tinctoria</i>        | Apocynaceae      | Tree     | leaf, bark   |



**Photograph in Sudikonda forest**

