



Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE

(An Autonomous Institution Affiliated to Andhra University)

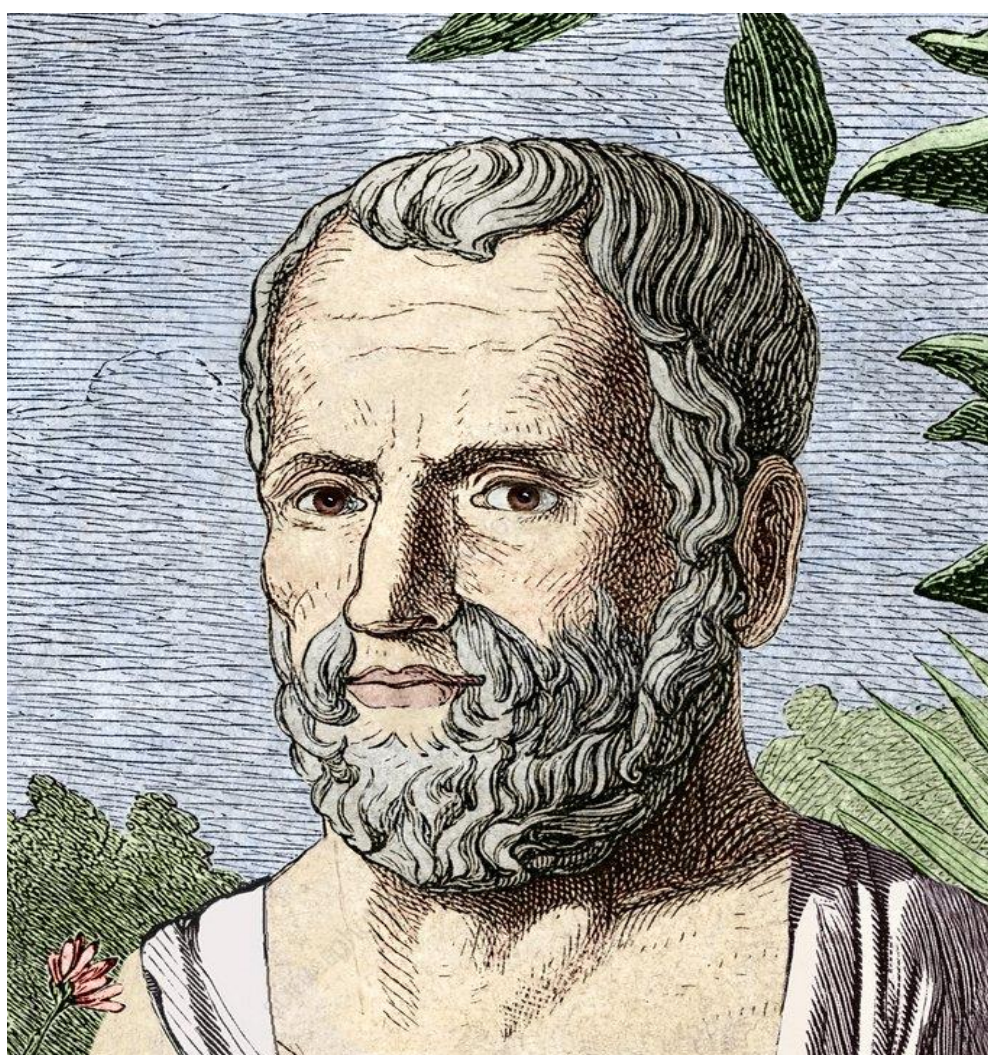
Reaccredited by NAAC with 'A' Grade(3rd Cycle)

District Resource Centre & Center for Research Studies
Maddilapalem, VISAKHAPATNAM 530 013, Andhra Pradesh



DEPARTMENT OF BOTANY

PROFILE



THEOPHRASTUS – FATHER OF BOTANY

Time is the most valuable thing, a man can spend.

– Theophrastus

Department of Botany - courses offered

S.No	Program	Course offered	Medium	Duration	Eligibility
1	B.Sc (CBZ)	B.Sc	EM	3 Years	Intermediate with BiPC
2	B.Sc (MBBC & BTBC)	B.Sc	EM	3 Years	Intermediate with BiPC
3	B.Sc	B.Sc Botany Single Major (From 2023-24)	EM	4 years	Intermediate with BiPC
4	B.Sc	B.Sc Organic Farming Single Major (From 2023-24)	EM	4 years	Intermediate with BiPC

Add on courses offered

S. No	Add on course
1	Horticulture Techniques
2	Manures and importance
3	Mangrove Biodiversity and Ecological importance

Department of Botany – Highlights

1. Good Infra Structure
2. Laboratories with Sophisticated equipment.
3. Well established Botanical Garden.
4. Botanical garden with diversified flora.
5. Separate Rock Garden with Xerophytes
6. Presence of Green House Unit
7. ICT mediated Teaching Learning.
8. Online Teaching through G-Suit, Zoom and Teachmint app in needy situations.
9. Botany faculty acting as conveners and members for various college committees such as Eco Club, PG Coordinator, Womens Hostel Warden, Library, Women empowerment cell, Research committee, career guidance cell.
10. Conduction of Field trips.
11. Celebration of important days.
12. Awards to students in the name of Scientists
13. Hands on practice in doing practicals.
14. Providing Study material.
15. Student study projects.
16. PPTs, Virtual and animated videos for better comprehension.
17. Regular Assessment through Assignments, Group discussion, Quiz and student seminars.
18. Remedial coaching for slow Learners.
19. Achievement of 95 % and above results in every year.
20. Coaching for III. B.Sc (CBZ) Year students to CET exams.
21. Visiting Scientific Labs, Research Centers and Botanical gardens.
22. Micro irrigation system for Botanical garden.

1. Number of Teaching posts: 06
2. Number of Non-teaching post: 02
3. Contingency staff: 01

Details of Teaching Staff:

S. No	Name of the Lecturer	Qualification	Designation	Specialization	Experience
1	Dr. B. Chandramouli	M. Sc, B. Ed, SLET, Ph. D	In-Charge Dept. of Botany	Plant Biotechnology	3 Years and 6 Months as JL & 15 Years and 6 months as DL
2	Dr.P.Swamy Naidu	M.Sc, APSET, Ph.D	Lecturer in Botany	Plant Tissue Culture	11 Years and 4 Months as JL & 10 Years and 4 Months as DL
3	Dr. S. Padmavathi	M.Sc, APSET, Ph.D	Lecturer in Botany	Plant Molecular Genetics and Plant Biotechnology	11 Years and 11 Months as JL & 10 Years and 3 Months as DL
4	Dr. V. Padmaja	M. Sc, B.Ed, APSET, Ph. D	Lecturer in Botany	Cytogenetics	11 Years as JL & 10 Years and 6 Months as DL
5	Dr. AHD Pushpalatha	M.Sc, APSET Ph.D	Lecturer in Botany	Cytogenetics	8 Years and 5 months as JL & 10 Years and 7 months as DL
6	Dr. GRNS Sujatha	M.Sc M.Ed (Ph.D)	Lecturer in Botany	Plant Molecular Genetics and Plant Biotechnology	16 Years in School Education & 5 Years as DL

Details of Non-Teaching Staff:

1	P. Apparao	Herbarium Keeper
2	T. Chinnarao	Lab Assistant
3	M. Krishna Veni	Office Assistant

Publications of the faculty of Botany Department

S.No	Name of the Lecturer	Publications		Books/Book Chapters
		National	International	
1	Dr. B. Chandramouli In-Charge, Dept. of Botany	5	8	2
2	Dr.P.Swamy Naidu Lecturer in Botany	3	1	-
3	Dr. S. Padmavathi Lecturer in Botany	1	8	
4	Dr. V. Padmaja Lecturer in Botany	1	6	-
5	Dr. AHD Pushpalatha Lecturer in Botany	-	4	-
6	Smt. GRNS Sujatha Lecturer in Botany	1	2	-

1. Dr. B. Chandramouli, HOD, Lecturer in Botany

S.No	Title of the Paper	Journal name	ISSN number
1	Phytochemical and antimicrobial investigations of methanolic seed extract of black rice (<i>Oryza sativa</i> L.) Mentioned in an ancient palm leaf manuscript (talapatra).	World Journal of Pharmaceutical Research 2018	2277– 7105
2	Studies on phytochemistry and biological activities of methanolic extracts of black rice (<i>Oryza sativa</i> L.) Reported in an ancient telugu palm-leaf manuscript.	World Journal of Pharmaceutical Research 2018	2277– 7105
3	Enumeration of various Ayurvedic formulations listed in an ancient palmleaf manuscript of Rayalaseema region in Andhra Pradesh state, India	Journal of Ethnopharmacology Elsevier 2020	0378-8741
4	Sumathi Sataka padyam – Sastriya visleshana	International journal of multidisciplinary Educational research 2019	2277-7881
5	Phytochemical profile and GC-MS analysis of methanolic extract of Black Rice (<i>Oryza sativa</i> L.).	AP Science Spectrum (Accepted) APSS-SC-0171	2455-5053
6	Introduction of some Telugu and Sanskrit words from Palm-leaf manuscripts belongs to 18 th Century	Tejasvi Astitva 2019	2581-9070 (Online)
7	Ethnomedicinal plants used by Kotia tribes, Pedabayalu Mandalam, Alluri Sitarama Raju District, Andhra Pradesh, India	World journal of Biology Pharmacy 2023	2582-5542
8	Ethnomedicinal plants used by primitive tribes of Parvathipuram Manyam District, Andhra Pradesh, India	World journal of Biology Pharmacy 2023	2582-5542
9	Studies on Folklore medicine of Rampachodavaram Division, Alluri Sitaramaraju District, Andhra Pradesh, India	World journal of Biology Pharmacy 2023	2582-5542
10	Black Rice – A Multifunctional food (Book Chapter)	Aapple academic press 2022	1774637278
11	Ethnomedicinal Plants used by Nukha Dora Tribes of Dumbriguda Mandal, Alluri Sitaramaraju District, Andhra Pradesh, India	Scholars Academic Journal of Biosciences 2023	ISSN 2321-6883 (Online)
12	Ethnomedicinal Investigation on Koya Dora Tribes of Rampa Hills, Alluri Sitaramaraju District, Andhra Pradesh, India	Scholars Academic Journal of Biosciences 2023	ISSN 2321-6883 (Online)

2. Dr. P. Swamy Naidu, Lecturer in Botany

S.No	Title of the Paper	Journal name	ISSN number
1	Ethnomedicine for Diarrhoea and Dysentery by the tribals of Visakhapatnam District, Andhra Pradesh.	Journal of Non-Timber Forest Products 26(1) 49-54, 2019	0971-9415
2	Ethnomedicine for Cuts And Wounds by the tribes of Visakhapatnam District, Andhra Pradesh, India	Science and Technology Publishing (Sci & Tech) 2019	2632-1017
3	Notes on the Taxonomy and Distribution of the Desert Thorn Apple <i>Datura discolor</i> (Solanaceae) in India.	Nelumbo ,BSI Vol. 62 (1): (54-56) 2020	0976-5069
4	Note on morphological variations and new distributional record of <i>Bonnaya tenuifolia</i> (Linderniaceae) from Andhra Pradesh, India	Nelumbo , BSI 2023	0976-5069

3. Dr. S. Padmavathi, Lecturer in Botany

S.No	Title of the Paper	Journal name	ISSN number
1	Physico-Chemical Status Of Effluent Discharged From A Chlor-Alkali Industry Containing Mercury At Ganjam (Odisha).	2019	Society Of Life Sciences Link https://drive.google.com/file/d/1wzZPdOWsfMrZda0uToLB0Z_Wf-vl3ald/view?usp=sharing
2	Isolation And Identification Of Mercury Tolerant Bacteria From Mercury Contaminated Areas	3 Rd March 2020	International Journal For Innovative Research In Multidisciplinary Field (Ijirmf) Link https://www.ijirmf.com/wp-content/uploads/IJIRMF202003028.pdf
3	Growth And Carbon Metabolism Assessment In Finger Millet (Eleusine Coracana L. Gaertn) Seedlings Undergone Pgpr Treatment Subjected To Nacl Stress.	(May-2021)	World Wide Journal Of Multidisciplinary Research And Development (Wwjmrdr) Link https://wwjmrdr.com/upload/growth-and-carbon-metabolism-assessment-in-finger-millet-eleusine-coracana-l-gaertn-seedlings-undergone-pgpr-treatment-subjected-to-nacl-stress_1623051180.pdf
4	Assessment Of Mercury Toxicity On Seed Germination, Shoot And Root Growth Of Cajanus Cajan (L.) Millsp.	Jan 2021	International Journal For Innovative Research In Multidisciplinary Field (Ijcrt) Link https://ijcrt.org/papers/IJCRT2101059.pdf
5	Study Of Antibacterial Efficacy Of Green -Synthesised Silver-Nickel Hybrid Nanoparticles Chippada Satya Anuradha & Saripalli Padmavathi	30-09-2022	Jsar (Journal Of Advanced Scientific Research) Link https://sciensage.info/index.php/JASR/article/view/1764/1378
6	Nanotechnology In Plant Disease Management - An Overview. <i>Journal Of Advanced Scientific Research</i> Saripalli Padmavathi & Chippada Satya Anuradha		<i>Research</i> , 13(10), 01-06. https://doi.org/10.55218/Jasr.2022131001
7	Amelioration Of Mercury Stress Using Mercury Tolerant Bacterium By Studying Growth, Antioxidant Enzyme Activities, Lipid Peroxidation And Proline Content In Pigeon Pea S. Padmavathi And Ch. S. Anuradha	(Nov-Dec 2022)	Research Journal Of Agricultural Sciences An International Journal P- Issn: 0976-1675 E- Issn: 2249-4538 Volume: 13 Issue: 06 Res. Jr. Of Agril. Sci. (2022) 13: 1771–1779 Link http://Rjas.Org/Article/Article/4350
8	The impact of NEP 2020 on higher education in India and challenges in implementation- A comprehensive review	2022	Education and Society

4. Dr. V. Padmaja, Lecturer in Botany

S.No	Title of the Paper	Journal name	ISSN number
1	Rauwolfia tetraphylla mediated synthesis of herbal nano powders by ballmilling and GC-MS analysis, evaluation of their antimicrobial activity	International journal of research in Pharmaceutical science 2021	0975-7538
2	Ball Milling Synthesis of Herbal Nanopowders from Various Parts of Rauwolfia Serpentina, and their GC-MS Analysis and Evaluation Of Antimicrobial Activity.	Current Trends in Biotechnology and Pharmacy 2022	0973-8916 (Print), 2230-7303 (Online)
3	Ethnomedicinal plants used by Kotia tribes, Pedabayalu Mandalam, Alluri Sitarama Raju District, Andhra Pradesh, India	World journal of Biology Pharmacy 2023	2582-5542
4	Ethnomedicinal plants used by primitive tribes of Parvathipuram Manyam District, Andhra Pradesh, India	World journal of Biology Pharmacy 2023	2582-5542
5	Studies on Folklore medicine of Rampachodavaram Division, Alluri Sitaramaraju District, Andhra Pradesh, India	World journal of Biology Pharmacy 2023	2582-5542
6	Ethnomedicinal Plants used by Nukha Dora Tribes of Dumbriguda Mandal, Alluri Sitaramaraju District, Andhra Pradesh, India	Scholars Academic Journal of Biosciences	ISSN 2321-6883 (Online)
7	Ethnomedicinal Investigation on Koya Dora Tribes of Rampa Hills, Alluri Sitaramaraju District, Andhra Pradesh, India	Scholars Academic Journal of Biosciences	ISSN 2321-6883 (Online)

5. Dr. AHD. Pushpalatha, Lecturer in Botany

S.No	Title of the Paper	Journal name	ISSN number
1	Evaluation of sodium chloride stress tolerance in finger millet (eleusine coracana l.) Cultivars by observing morphological characters.	International Journal of Advanced Research (IJAR)	ISSN 2320-5407
2	Growth and Carbon metabolism assessment in finger millet (Eleusine coracana L. Gaertn) seedlings undergone PGPR treatment subjected to NaCl stress.	World Wide Journal of Multidisciplinary Research and Development	E-ISSN: 2454-6615
3	Assessment of mercury toxicity on Seed germination, shoot and root Growth of cajanus cajan (l.) Millsp.	International Journal of Creative Research Thoughts (IJCRT)	SSN: 2320-2882
4	Isolation and characterisation of halotolerant bacteria from saline habitats	International journal for innovative research in multidisciplinary field	ISSN: 2455-0620

6. Smt. GRNS Sujatha, Lecturer in Botany

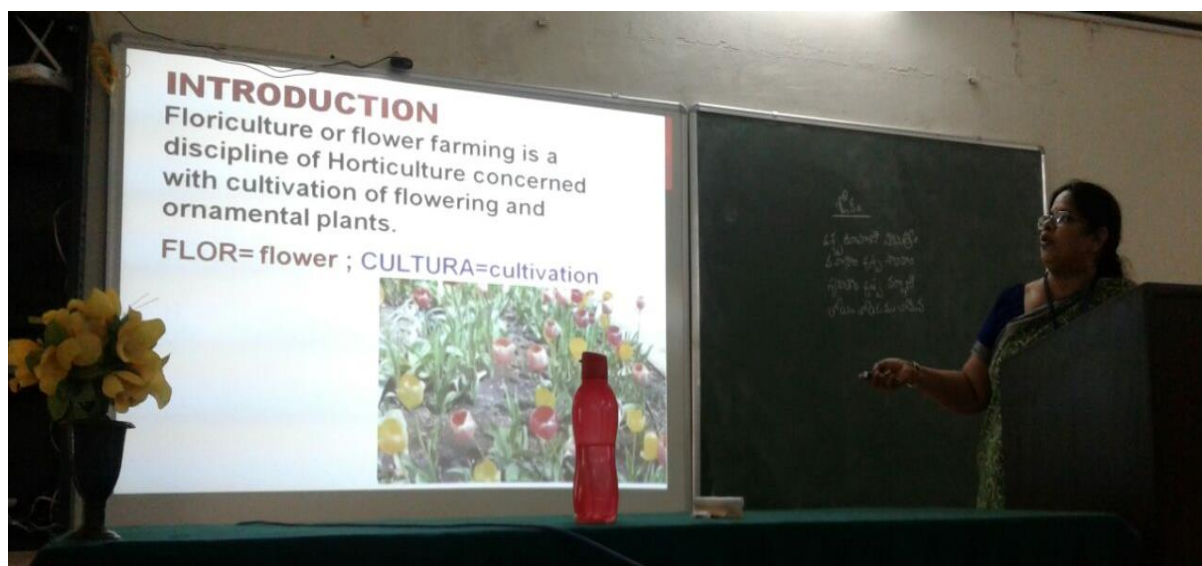
S.No	Title of the Paper	Journal name	ISSN number
1	Estimating weed abundance and Diversity in Turmeric fields of Visakhapatnam Tribal A.P.India	TRANS STELLAR International journal of botany and research (IJBR) Dec-2021	ISSN-(P):2277-4815
2	Weed diversity in Turmeric crop in Araku and Paderu divisions of Eastern ghats-A Study	InterNational journal of Novel Research and Development(IJNRD) June 2023	ISSN-2456-4184
3	A Comparative Study on weed diversity in Araku & Paderu Divisions	National Conference on Design thinking-Trans Disciplinary Challenges& Opportunities July 2023	ISBN-978-93-5915-756-6
4	A study on HeavyMetal contamination in North Coastalregion of Andhra Pradesh	International journal of Research and Analytical Reviews November 2023	ISSN:2348-1269
5	A Study on EthnomedicinalPlants used by Indigenous tribes of East Godavari Forest area	International journal for Research in Applied Science and Engineering Technology December 2023	ISSN-2321-9653

**DR. V.S KRISHNA GOVT. DEGREE COLLEGE (A),
VISAKHAPATNAM
DEPARTMENT OF BOTANY
ICT CLASSES**

Dr. K. Vijaya Lakshmi, Lecturer in Botany

Topic: Floriculture (Virtual class)

Date: 12-02-2018



Dr. K. Vijaya Lakshmi, Lecturer in Botany

Topic: Euchromatin and Heterochromatin

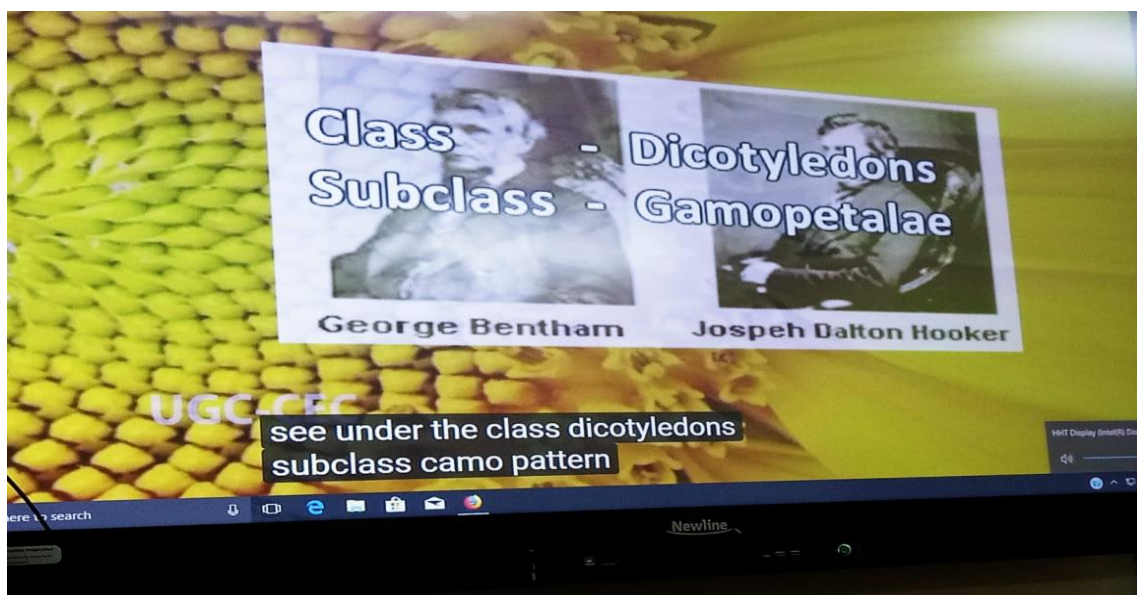
Date: 21-12-2019



Dr. TMA Niveditha, Lecturer in Botany

Topic: Asteraceae Family

Date: 18-09-2019



Dr. P. Sreevani, Lecturer in Botany

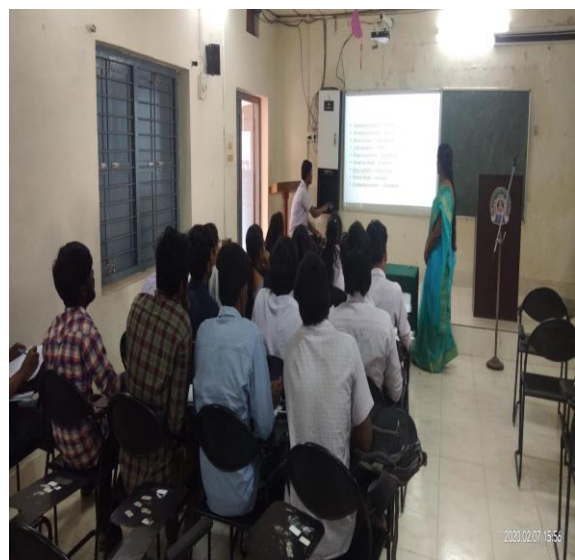
Topic: Biodiversity and Conservation

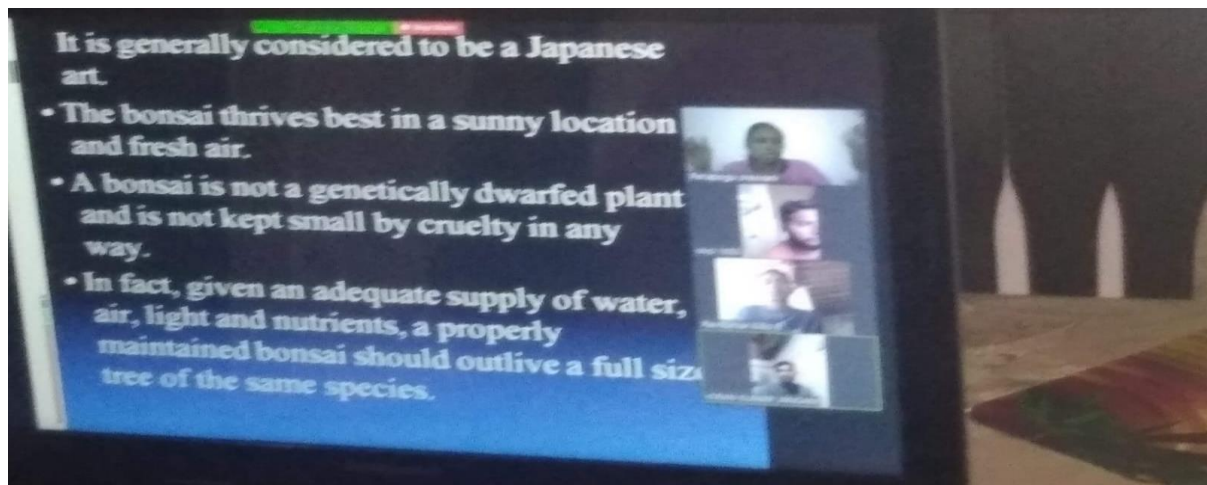
Date: 01-02-2020



Topic: Medicinal Plants – Importance

Date: 07-02-2020





Dr. TMA Niveditha, Lecturer in Botany

Topic: Development of Embryo Sac

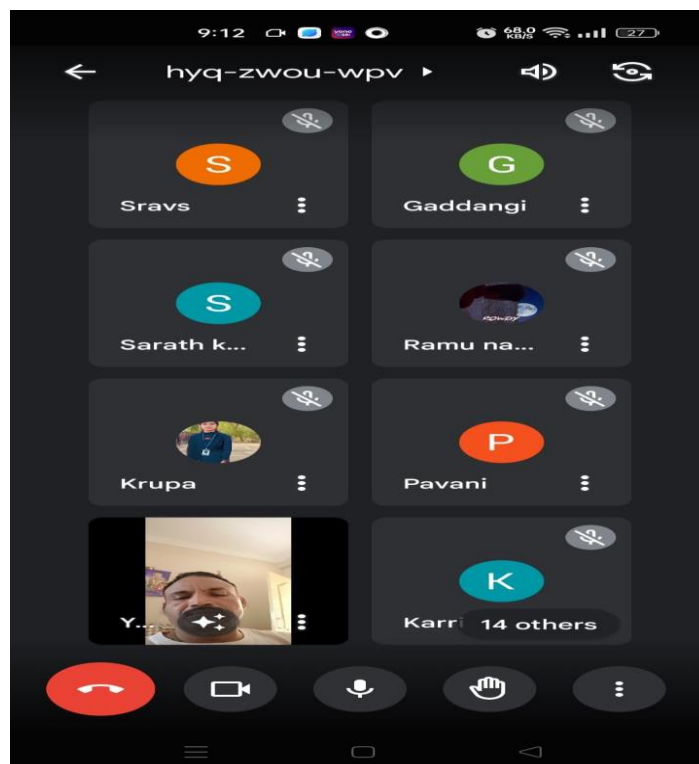
Date: 24-08-2020



Dr. D.S. Madhava rao, Lecturer in Botany

Topic: Concept of Ecosystem (Online class)

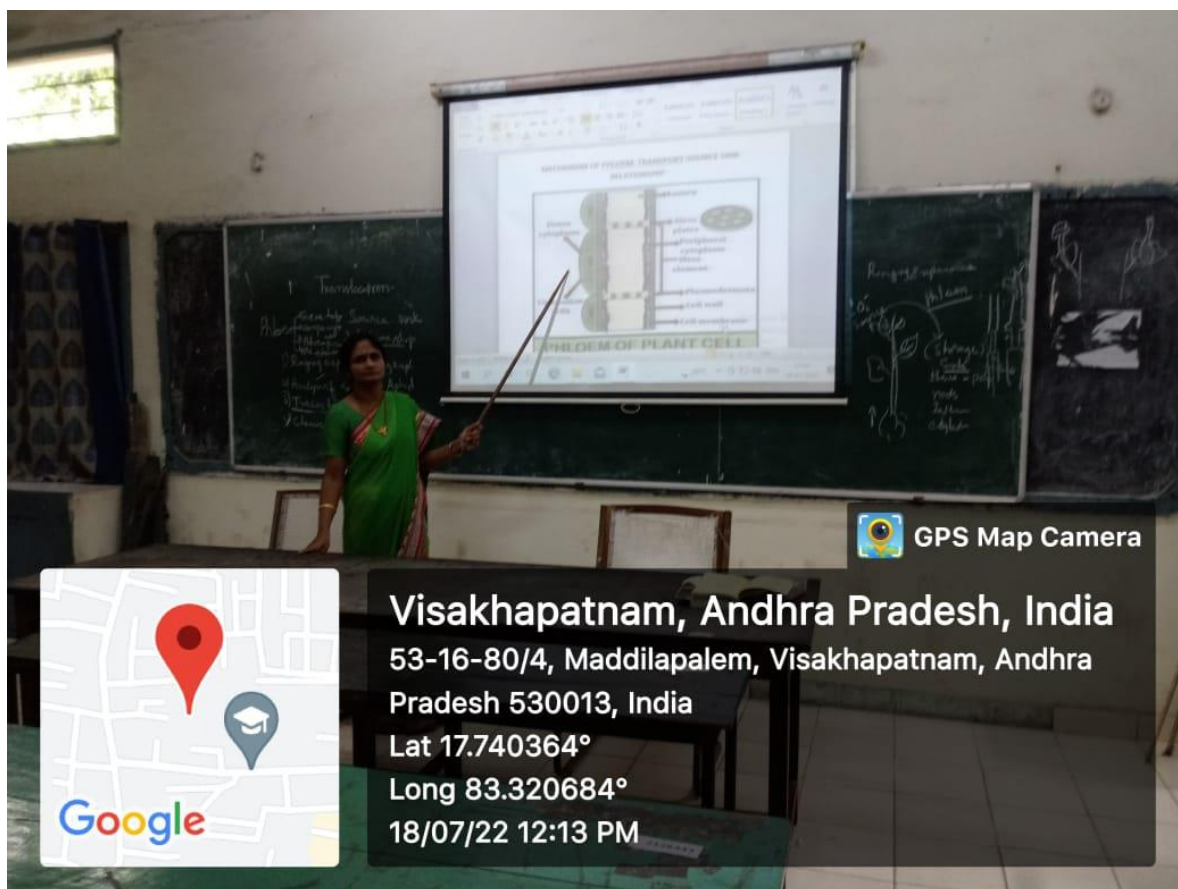
Date: 28-8-2020



Dr. TMA Niveditha, Lecturer in Botany

Topic: Complex Tissues- Phloem

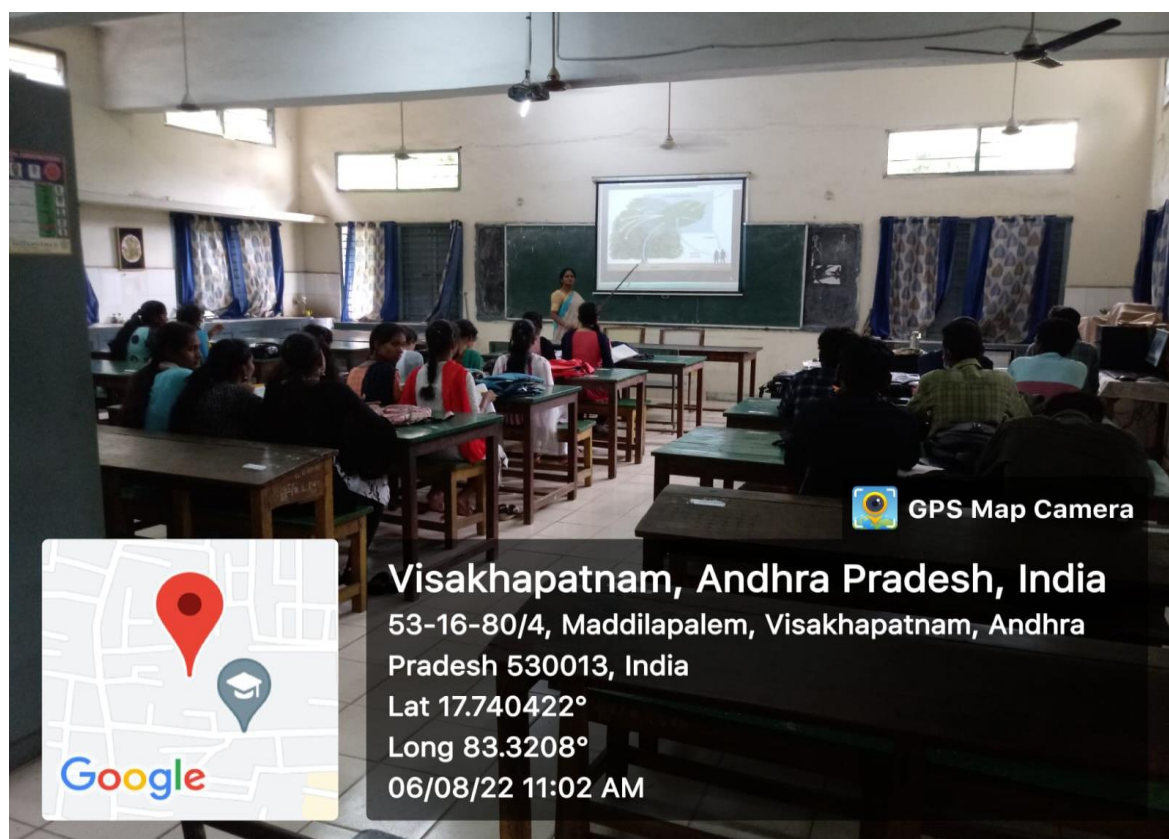
Date: 18-07-2022



Dr. TMA Niveditha, Lecturer in Botany

Topic: Photosynthesis - Structure of Chloroplast

Date: 06-08-2022



Dr. TMA Niveditha, Lecturer in Botany

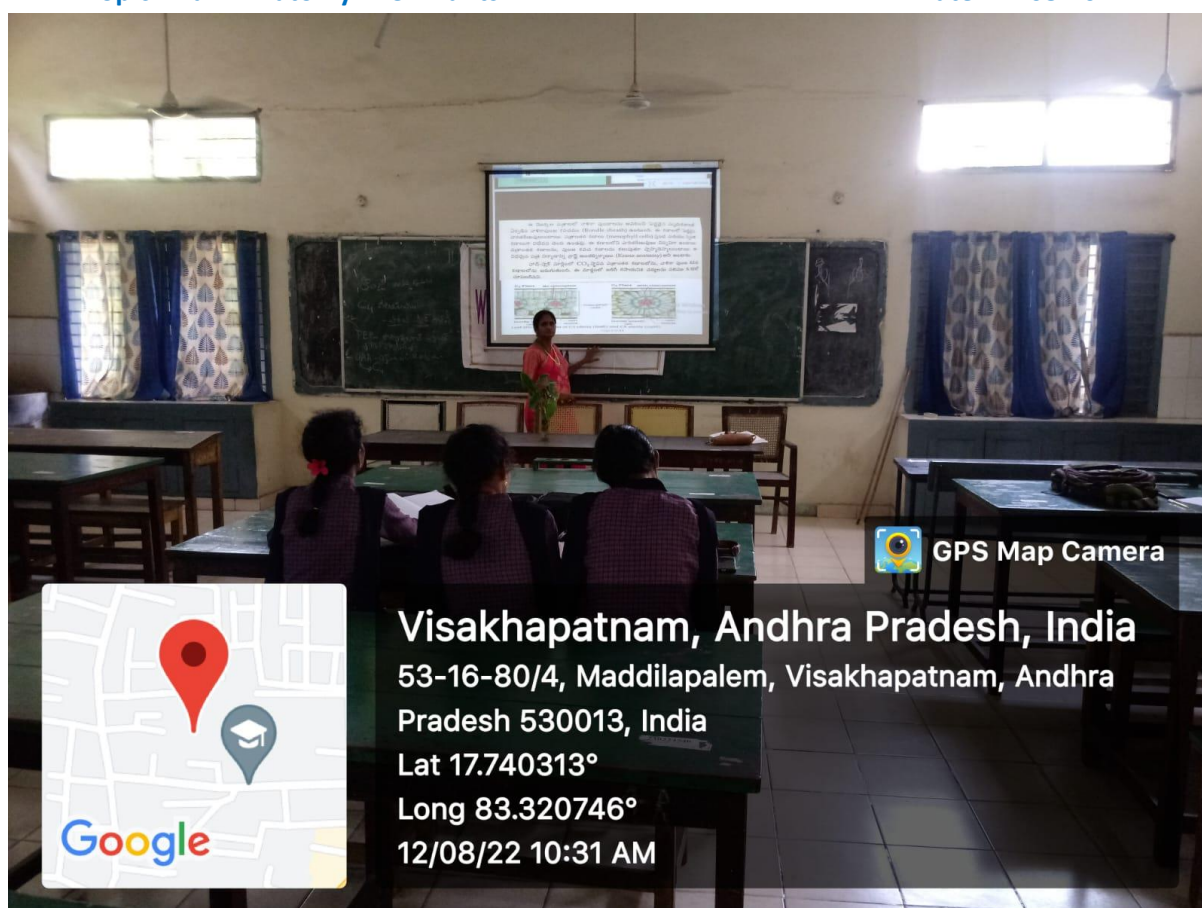
Topic: Taxonomy – Technical description

Date: 11-08-2022



Topic: Kranz Anatomy in C4 Plants

Date: 12-08-2022



Dr. S. Padmavathi, Lecturer in Botany

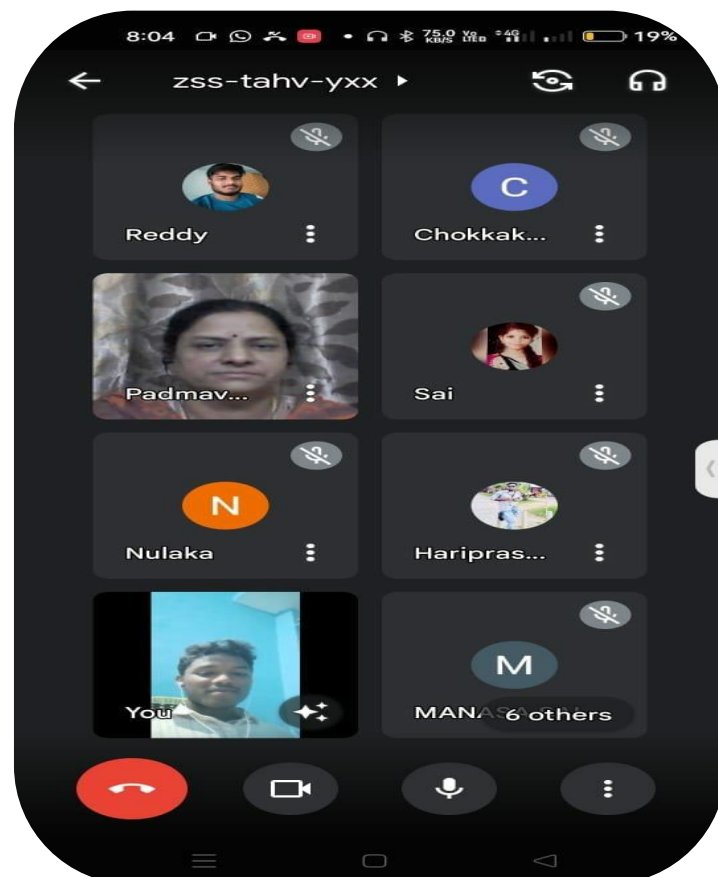
Topic: Reproduction in Funaria

Date: 16-09-2022



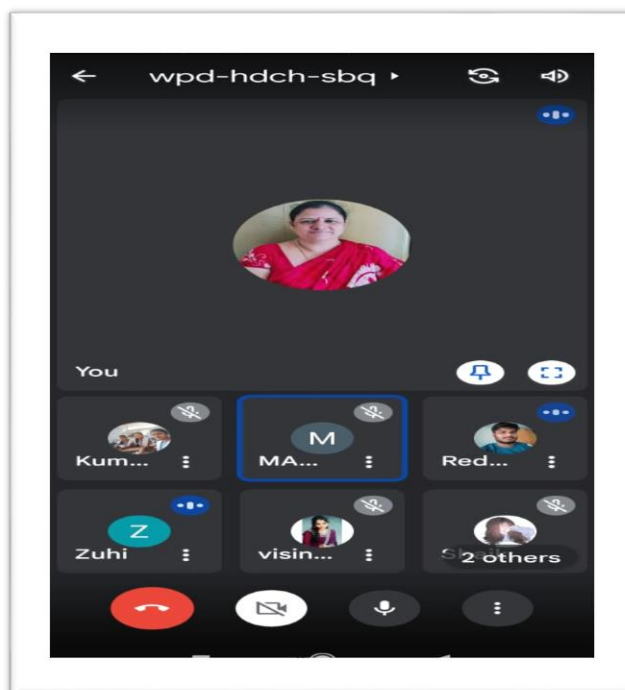
Topic: Origin of life (Online)

Date: 19-9-2022



Topic: Polysiphonia – Structure of thallus (Online)

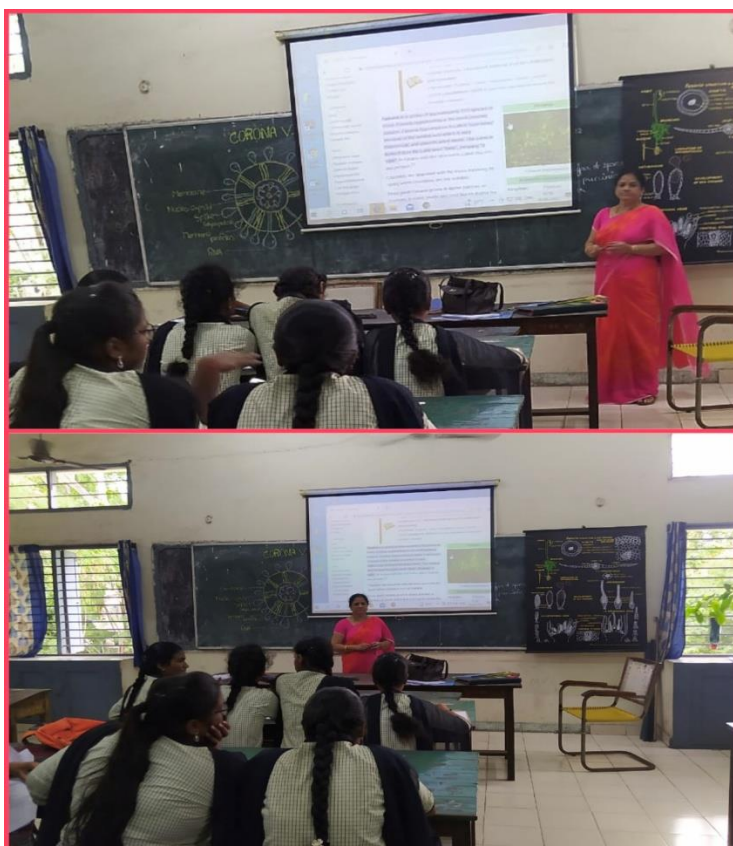
Date: 22-09-2023



Dr. S. Padmavathi, Lecturer in Botany

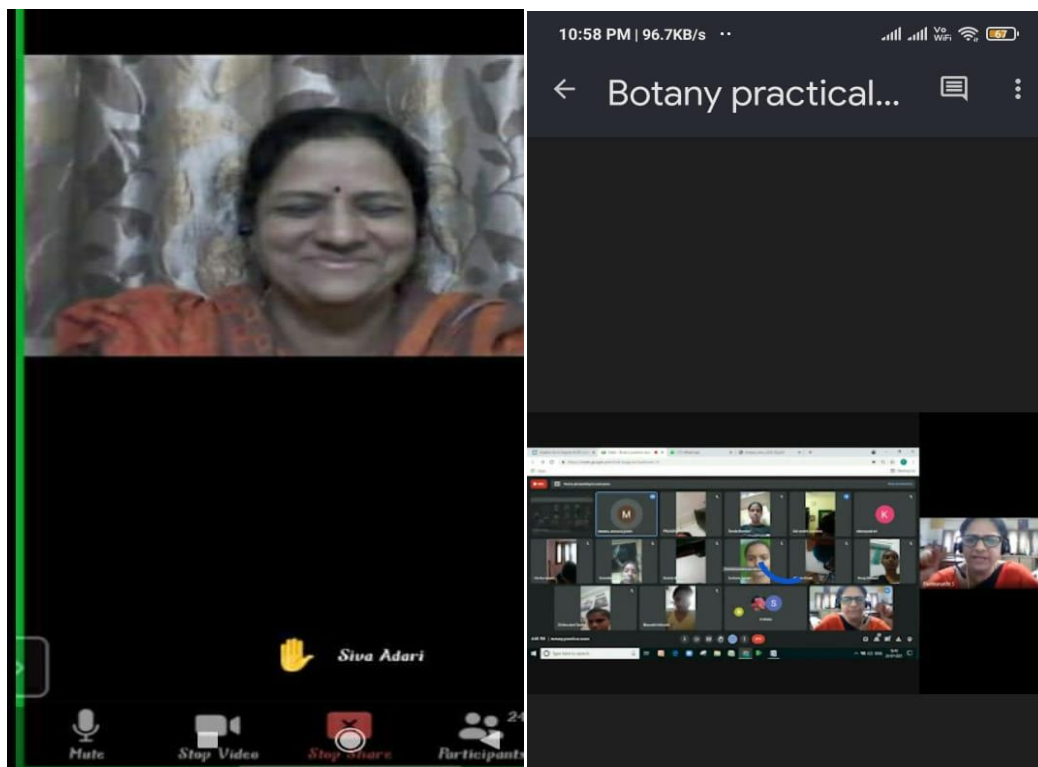
Topic: Funaria Life cycle

Date: 23-09-2022



Topic: Endemism (Online)

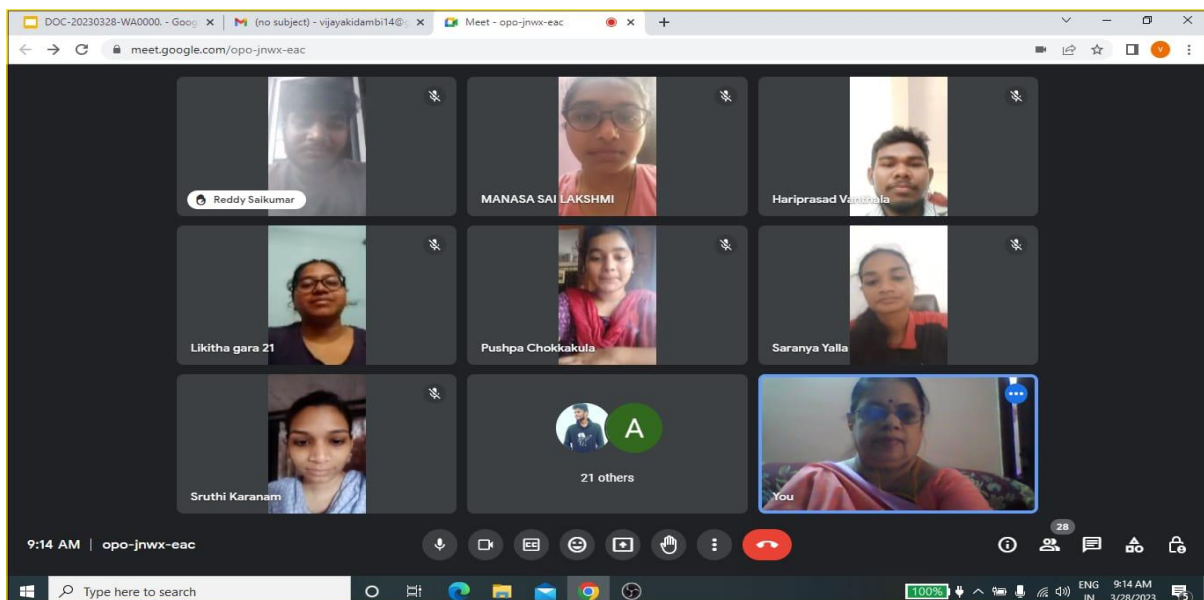
Date: 24-09-2022



Dr. K. Vijaya Lakshmi, Lecturer in Botany

Topic: Endemism (Online class)

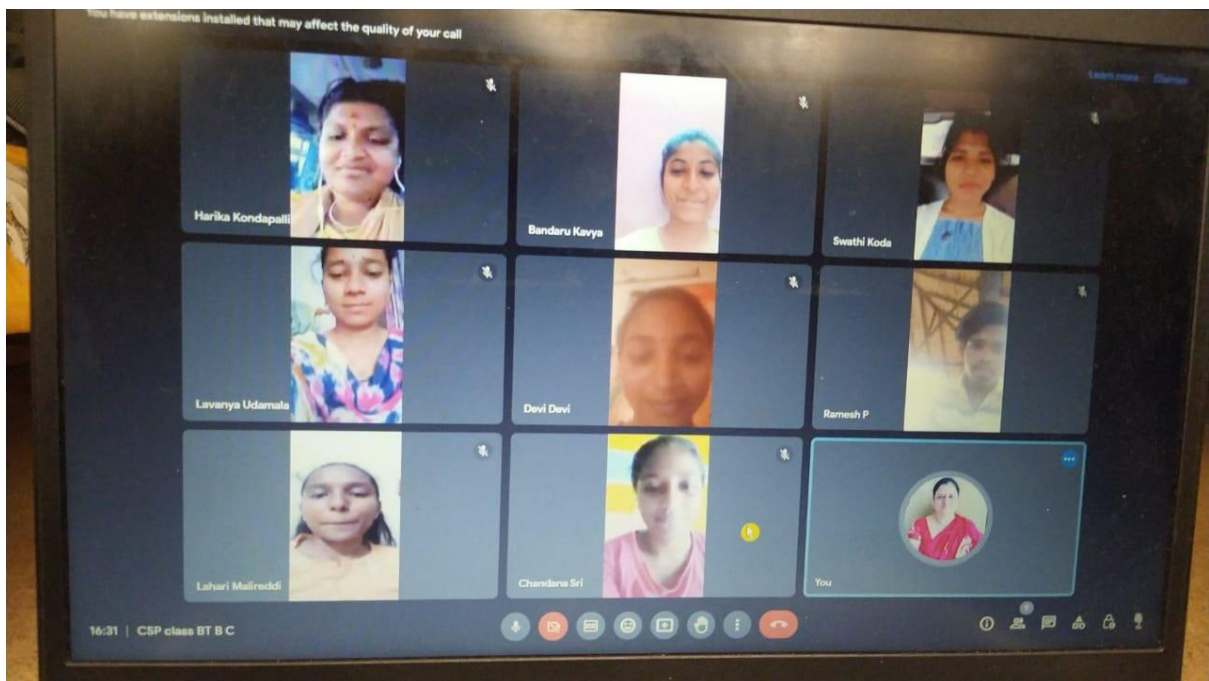
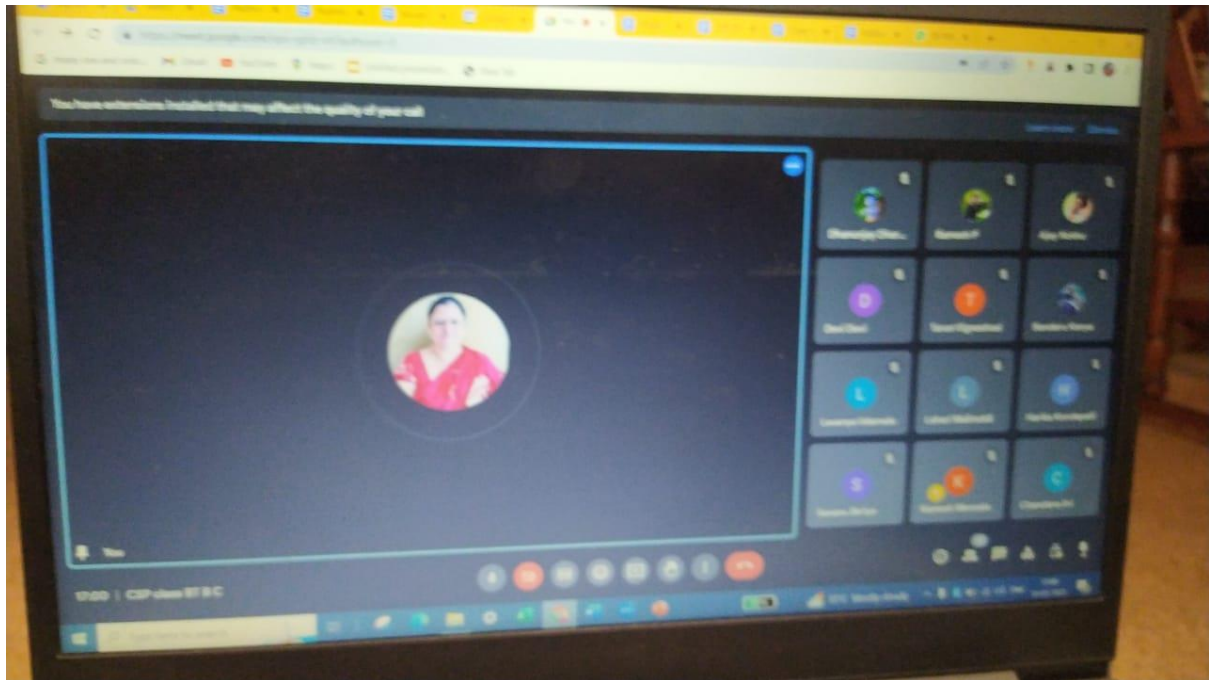
Date: 28-03-2023



Dr. S. Padmavathi, Lecturer in Botany

Topic: Phytogeographical regions in India (Online)

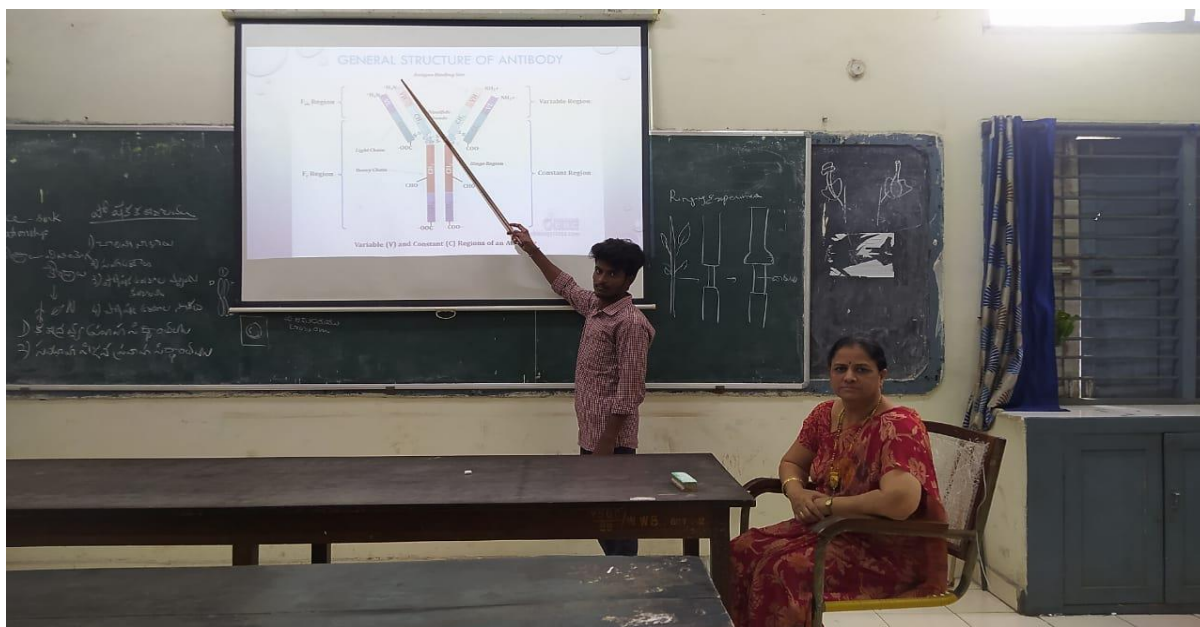
Date: 10-05-2023



DR. V.S KRISHNA GOVT. DEGREE COLLEGE (A)
DEPARTMENT OF BOTANY
Student Seminars

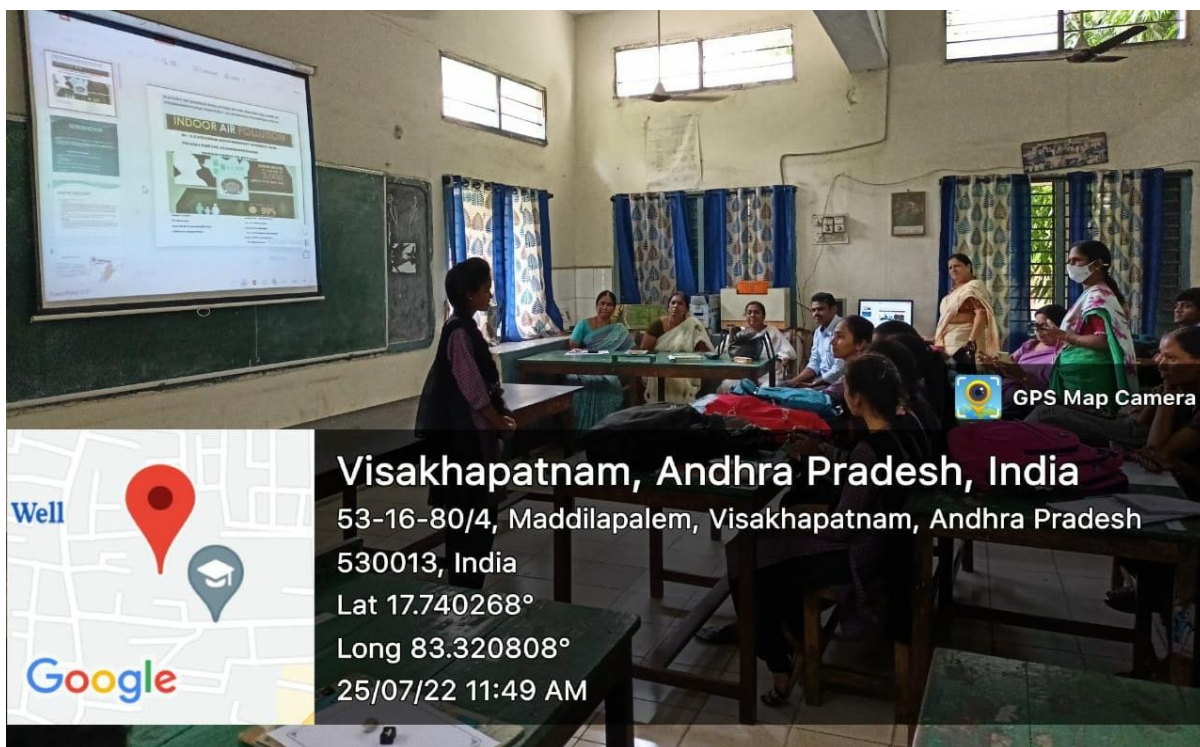
Topic: Immunoglobulins

Date: 18-11-2021



Topic: Indoor Air Pollution

Date: 25-07-2022



Topic: Anatomy of Root

Date: 21-09-2022



Topic: Microsporogenesis

Date: 22-12-2022



Topic: General characters of Pteridophyta

Date: 22-12-2022



Topic: General Characters of Gymnosperms

Date: 22-12-2022

