

**Sarojini Naidu Vanita Maha Vidyalaya**  
**Department of Botany (PG)**



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**1. Introduction:**

Sarojini Naidu Vanita Maha Vidyalaya has been setting records in the arena of education since its inception in 1957. The degree section of the college received its affiliation with Osmania University in 1962 and started intermediate section in 1970. The post-graduate course i.e. MSc., Botany was started in 1991 with Applied Botany as a specialization and subsequently specializations has been changed over the years by the University. At present specializations offered were Molecular Genetics, Plant Tissue Culture and Biotechnology, Phytogeography and Plant Systematics and Plant Biodiversity and Conservation.

Department is well-equipped with labs including tissue culture lab, Hydroponics units and spacious classrooms with LCD facility.

The Department of PG has 05 staff members of which 1 PhD and 1 pursuing PhD.

One of the faculty member completed a minor research project from UGC. Research activities has been pursued by the faculty members, publishing papers as well as book chapters in various journals.

All the faculty members actively participates/organizing National Conferences/Seminars/Workshops.

Faculty of the Department are highly motivated in organizing student activities like seminars, quizzes, and tree plantations, botanical tours, horticultural shows and workshops under the preview of ECO-club.

Faculty members and students participated in outreach program to educate students regarding environmental protection and conservation.

Department vigorously engaged in guiding students with Mentor-Mentee programs to provide support and guidance with personal and academics issues.

## **VISION**

Empowering students with the innovative technologies in the field of Botany and applying them for the wellness of the individual and the Society.

## **MISSION**

Students should excel to become leaders in various fields of Plant Sciences.

## **2. Faculty information:**



**Name of the Faculty: Dr. Sarah Naheed**

Head, Department of Botany & Director PG Courses

**Qualification:** MSc., BEd., PhD

**Years of Experience:** 33

**Papers & Publications:** 05

Papers Presented: 11

Books Authored: 02

Coordinator Scientific Research Forum, Telangana Science Fair

Editor: Souvenir Science Fair organized by Telangana Science Academy

Resource person: National conference on Plants and Environment” organized by Department of TTWRDC and Telangana University.

No of Seminars, workshops, webinars attended: 36

No of conferences attended: 07

FDPs attended: 05

Refresher course attended: 02

Seminars, workshops, and activities organized: 09

No of seminars, conferences as organizing committee member: 5

Jury member for various presentations:

1. In Science fair organized by Telangana Science Fair Academy
2. Madina college yearly Science Exhibition.



**Name of the Faculty: Dr. T. Sudha Rani**

**Qualification: MSc., PhD**

**Years of Experience: 27**

**Papers & Publications: 09**

Minor Research Project: 01

Authored books: 02

Books edited: 01

Chapters contributed: 03

Resource Person: For several audio-video lessons, teleconferences, and for theory and practicals of MSc., course.

No of seminars attended: 05

No of conferences attended: 03

FDPs attended: 05

Refresher course attended: 01 Seminars  
and workshops organized: 06 Jury  
member for various presentations.



**Name of the Faculty: R. Kalyani**

**Qualification:** MSc., B.Ed.,

**Years of Experience:** 17

**Papers & Publications:** 03

Published chapters: 03

No of conferences attended: 03

No of FDPs attended: 06

No of refresher courses attended: 01

Workshops organized: 01

Conducted Add-on courses: 04

Resource person: 04

Outreach programs participated: 01

Professional body memberships: 01

Jury member for various competitions and presentations: 3





**Name of the Faculty:** Ruhiya Sultana

**Qualification:** MSc. B.Ed.,

**Years of Experience:** 11

**Papers & Publications:** 05

Co-author of book: 01

No of conferences attended: 03

No of FDPs attended: 05

No of refresher courses attended: 01

Outreach programs participated: 01



**Name of the Faculty:** D. Shiphra Jones

**Qualification:** MSc., PGDMB from HCU, Pursuing PhD.

**Years of Experience:** 08

**Papers & Publications:** 06

No of conferences attended: 06

No of seminars attended: 05

No of workshops attended: 04

No of FDPs attended: 07

No of refresher course participated: 01

Outreach programs participated: 01

**Resource Person:**

1. For Vanadarsini Prog conducted by Forest Department of Telangana on 23<sup>rd</sup> Feb 2023.
2. Guest Speaker as a part of World Environment Day for NSS Students at Sarojini Naidu Vanita Maha Vidyalaya.

**Research:** Working on Flora of Narapally forest range-A fragmented urban forest in Hyderabad, Telangana, India.



**Name of the Faculty:** Sirajunnisa

**Qualification:** MSc., BEd.,

No of conferences attended: 02

No of FDPs attended: 02

Workshops attended: 01

Resource person: 01



**Name of the Faculty:** Saniya Shagufta

**Qualification:** MSc.,

**Years of Experience:** 01

Working on maternity leave vacancy **STAFF ACTIVITIES AND ACHIEVEMENTS:**

**Dr. T. Sudha Rani**

✓ **Authored two books.**

1. Advances in Bitter gourd technology, New Delhi publishers.
2. Botany textbook for first and second years, Charan publications.

✓ **Contributed three chapters** in Genetics (UG) for Ambedkar University.

✓ **Edited a manual** on Environmental education for school children. Published by Centre for Action Research and People Development.

✓ Attended two refresher courses and one orientation programme, one FDP,

✓ Resource person for Dr. Ambedkar Open University for MSc., students both theory and practicals,

- ✓ Resource person for several teleconferences for Dr. Ambedkar Open University, through Doordarshan Saptagiri Channel, ✓ Resource person for several audio-visual lessons for Dr. Ambedkar Open University, Attended several workshops, and organized two workshops, attended several national and international seminars and webinars.
- ✓ Participated in FDP on Blended Teaching And Learning on 27-08-2018 to 31-08-2018.
- ✓ Participated in FDP on Art of Teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha vidyalaya.
- ✓ Convener for a national level conference on Pure Earth Environment conference in collaboration with pure earth foundation on 16/11/2019.
- ✓ Attended refresher course on Recent Advances In Understanding Web Of Life on 15/03/2021 to 28/03/2021.
- ✓ Attended International Faculty Development Prog (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13<sup>th</sup> to 18<sup>th</sup> Sept 2021.
- ✓ Convener for Two Day National Workshop on Hydroponics, Sept 2021.
- ✓ Convener for a national level conference on Pure Earth Environment conference in collaboration with pure earth foundation on 27/11/2021.
- ✓ Resource person a seminar on Intellectual Property Protection on 08/03/2022.
- ✓ Attended FDP on Little Greens Hydroponics by LLP on 24-04-2022 to 09-05-2022.
- ✓ Convener for an International Seminar on Importance of Scientific Research Forum at College Level in collaboration with Telangana Science Fair Academy on 31<sup>st</sup> May 2022.
- ✓ Convener for a national level conference on Pure Earth Environment conference in collaboration with pure earth foundation on 26/11/2022.

- ✓ Attended FDP on Outcome Based Education on 05/12/2022 to 09/12/2022.
- ✓ Resource person for workshop on Hydroponics on 22/12/2022.
- ✓ Conducted short term course on Hydroponics held from 15<sup>th</sup> May 2023 to 19<sup>th</sup> June 2023.
- ✓ Member of The Indian Botanical Society 2023.
- ✓ Jury member to evaluate PPT presentation on Biochemistry Day on 11/10/2023.
- ✓ Attended two day workshop on Continuous comprehensive evaluation conducted by Osmania University on 5<sup>th</sup> and 6<sup>th</sup> October 2023.
- ✓ Attended one day workshop on Advancing evaluation practices: Paper setting, evaluation reforms and implementation of Continuous and Comprehensive Evaluation for post graduate programs in Osmania University on 22/12/2023.
- ✓ Attended Lecture series for PG staff and students conducted by SNVMV From 23<sup>rd</sup> to 29/01/2024.

**Mrs. R. Kalyani Publications:**

1. Published a chapter on topic Importance of Ascomycetes in Economic Importance of Different classes of plants, Krishna publication house. Gujarat with ISBN: 978-93-90627-08-0 on May 29<sup>th</sup> 2021.
2. Published a research paper titled climate change and its impact on Biodiversity in the edited book “current Trends in Environmental Sciences” on 4/5/2021.
3. Published a book chapter titled “Immunomodulatory Effects” in edited book titled Advances in Medicinal Plant Sciences-volume-3.

### **Conferences/Seminars/Workshops:**

1. Participated in FDP on Blended Teaching and Learning on 27-08-2018 to 31-08-2018 organized by Sarojini Naidu Vanita Maha Vidyalaya.
2. Conducted add-on course on Horticulture and Gardening from 09/08/2018 to 03/11/2018.
3. Conducted add-on course on Horticulture and Gardening from 02/08/2019 to 27/09/2019.
4. Participated in FDP on Art of Teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad.
5. Participated in Pure Earth Environment conference on 16/11/2019.
6. Attended International Faculty Development Prog (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13<sup>th</sup> to 18<sup>th</sup> Sept 2021.
7. Participated in Pure Earth Environment conference on 16/11/2019.
8. Participated refresher course on Recent Advances in Understanding Web of Life on 15/03/2021 to 28-03-2021.
9. Participated in Pure Earth Environment conference on 27/11/2021.
10. Conducted add-on course on Horticulture and Gardening from 07/04/2022 to 25/05/2022.
11. Participated in FDP on Little Greens Hydroponics on 22-04-2022 to 09-05-2022.
12. Attended Gnanajyothi outreach programme for school students of Govt Boys High School, Amberpet, Hyderabad on 12/10/2022.

13. Attended workshop on PCR and electrophoresis techniques organized by Cytomol Lab on 19/11/2022.
14. Department of Botany organized national level conference on Pure Earth Environment conference in collaboration with Pure Earth Foundation on 26/11/2022.
15. Participated in FDP on Outcome Based Education on 05-12-2022 to 09-12-2022 organized by Sarojini Naidu Vanita Maha Vidyalaya.
16. Conducted workshop on Hydroponics on 22/12/2022.
17. Conducted short term course on Hydroponics held from 15<sup>th</sup> May 2023 to 19<sup>th</sup> June 2023.
18. Member of The Indian Botanical Society 2023.
19. Attended two day workshop on Continuous Comprehensive Evaluation conducted by Osmania University on 5<sup>th</sup> and 6<sup>th</sup> October 2023.
20. Attended as a jury member to evaluate poster presentation on Biochemistry Day on 11/10/2023.
21. Attended Ten day FDP on NEP-Orientation and Sensitization Programme conducted by UGC-Malaviya Mission Teacher Training Centre Osmania University from 12/10/2023 to 21/10/2023.
22. Attended three day National workshop on Biological techniques and Research Methodology from 23<sup>rd</sup> to 25<sup>th</sup> November 2023, at Telangana Mahila Vishwavidyalaya, Koti Hyderabad.
23. Attended one day workshop on Advancing Evaluation Practices: Paper setting, evaluation reforms and implementation of Continuous and Comprehensive Evaluation for post graduate programs in Osmania University on 22/12/2023.



24 Attended Lecture series for PG staff and students conducted by SNVMV from 23<sup>rd</sup> to 29/01/2024.

Mrs. Ruhiya Sultana

### **Presentations:**

1. Presented a paper titled Municipal Solid Waste Generation and the Current Situation of its Management in India-Review, in the **International Virtual Interdisciplinary Conference of Environmental Humanities: Relocating the Territories of Nature held on 06 & 07 July 2021.**
2. Presented a paper titled Miracle Tree: An Overview on Multipurpose Properties of Moringa oleifera in the **one day Multidisciplinary International e-conference Impact of Environment on Agriculture, Health, Water resources, social life and industrial Development.**

### **Publications:**

1. Published a paper entitled “Anti-inflammatory Drugs from Marine Microbes”: A Review in the Book Title „Handbook of Marine Microbes the Therapeutic Prospective and Applications“ with ISBN: 978-93-5457-895-3 on 4th May 2021.
2. Co- author of the book, “Invent yourself its Science,“ published with ISBN-978-93-91302-67-2, May 2021.
3. Published a paper entitled, “Impact of Climate change on Biodiversity in India. Review” in the book “Frontiers in Life Science Volume II (ISBN: 978-81-953600-8-6) in the month of June-July, 2021.

4. Published a paper entitled “Tinospora – A Miraculous Medicinal plant. Review” in Multidisciplinary Research, volume-2, with ISBN: 978-93-90996-57-5 on 30/8/2021.
5. Published a paper title: Miracle Tree: An Overview on Multipurpose Properties of Moringa oleifera in '*Journal of Research & Development*' A Multidisciplinary International Level referred and Peer reviewed Journal Impact Factor-7.265, ISSN:2230-9578, 20 July-2021, Volume-11, Issue-26, (Page.19).

### **Online courses:**

1. Completed NPTEL online certification course on Bioengineering: An Interface with Biology and Medicine (Jan- March 2021).

**Extra Activities:** Attended five FDPs, three workshops, one refresher course, attended several national and international seminars and webinars.

1. Attended FDP on Blended Teaching and Learning on 27-08-2018 to 31/08/2018 organized by Sarojini Naidu Vanita Maha Vidyalaya.
2. Department of Botany organized National Level Conference on Pure Earth Environment conference in collaboration with Pure Earth Foundation on 16/11/2019.
3. Attended FDP on Art of Teaching on 23-09-2019 to 27/09/2019 organized by Sarojini Naidu Vanita Maha Vidyalaya On 15-03-2021 to 28-03-2021.
4. Attended refresher course on Recent Advances In Understanding Web of Life
5. Attended International Faculty Development Prog (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13<sup>th</sup> to 18<sup>th</sup> Sept 2021.
6. Department of Botany organized national level conference on Pure Earth Environment conference in collaboration with pure earth foundation on 26/11/2021.

7. Attended FDP on Little Greens Hydroponics conducted by Sarojini Naidu Vanita Maha Vidyalaya in association with Little Greens Pvt Ltd on 22/04/2022 to 09-05-2022.
8. Attended Gnanajyothi outreach programme for school students of Govt Boys High School, Amberpet, Hyderabad on 12/10/2022.
9. Attended workshop on PCR and electrophoresis techniques organized by Cytomol Lab on 19/11/2022.
10. Department of Botany organized national level conference on Pure Earth Environment conference in collaboration with pure earth foundation on 26/11/2022.
11. Attended FDP on Outcome Based Education on 05-12-2022 to 09-12-2022 organized by Sarojini Naidu Vanita Maha Vidyalaya.

Mrs. D. Shiphra Jones

**Resource Person:**

1. For Vanadarsini Prog conducted by Forest Department of Telangana on 23<sup>rd</sup> Feb 2023.
2. Guest Speaker as a part of World Environment Day for NSS Students at Sarojini Naidu Vanita Maha Vidyalaya.

**Research:** Working on Flora of Narapally forest range-A fragmented urban forest in Hyderabad, Telangana, India.

**Research Publications:**

1. Arbuscular mycorrhizal colonization in plant species of family Polygonaceae(2015)
2. Association of Arbuscular Mycorrhizal Fungi in some medicinal plants of Rutaceae and Apiaceae from Telangana State, India(April 2018)

3. Occurrence of Arbuscular Mycorrhizal Fungi in certain members of Polygonaceae from Telengana State India (Dec 2019).
4. Multiplication of Arbuscular Mycorrhizal Fungi on Two susceptible Host Plants, Sorghum vulgare and Eleusine coracana (July 2021).
5. Open Access Journals- Need of the Hour (Aug 2021).
6. Arbuscular Mycorrhizal fungal association in medicinal plants (July 2022)

### **Conferences/Seminars/Workshops:**

1. Attended one day National Seminar on Aerobiology and Public Health-2014 in association with Indian aerobiological society on 12<sup>th</sup> December 2014 organized by Department of Botany, University College of Science, Saifabad, Hyderabad.
2. Attended two day national conference on New Frontiers in Medicinal Plants Research (NCMP-2015) organized by the Department of Botany, Osmania University College for Women, Koti, Hyderabad in collaboration with Institute of Forest Biodiversity, Dulapally, Hyderabad held on February 26<sup>th</sup> and 27<sup>th</sup> at Osmania University College for Women, Koti Hyderabad, TS.
3. Attended three day National Seminar on Science and Technology for Indigenous Development in India on 22<sup>nd</sup> to 24<sup>th</sup> February 2016 organized by ISCA-Hyderabad Chapter, in Association with RBVRR Women's College, Hyderabad.
4. Participated in one day Faculty development program on Gender Sensitization organized by the Internal Quality Assurance Cell (IQAC) of Sarojini Naidu Vanita Maha Vidyalaya on 28<sup>th</sup> February 2017.

5. Participated in one day Seminar on Women in Science held on 14<sup>th</sup> September 2017 organized by The Indian Science Congress Association (ISCA) Hyderabad Chapter in Association with Department of Zoology, Sarojini Naidu Vanita Maha Vidyalaya.
6. Participated in one day state level seminar Spring-2019 on Sustainability of Agriculture through Horticulture and Green Corner (Horticulture show) on 2<sup>nd</sup> March 2019, conducted by the Department of Botany, Andhra Mahila Sabha Arts and Science College for Women, O.U campus, Hyderabad.
7. Participated in Faculty Development Program on Leadership Building and Professionalism at Work Place organized by Faculty Professional Development Cell, St. Francis College for Women, Hyderabad on 19<sup>th</sup> July 2019.
8. Participated in two day Biochemistry Symposium BCS 2K19 on Emerging Trends and Future Prospects in Biochemistry, conducted on September 1<sup>st</sup> and 18<sup>th</sup> 2019 organized by Department of Biochemistry of Sarojini Naidu Vanita Maha Vidyalaya.
9. Participated in an FDP on Art of Teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad.
10. Attended a conference of Pure Earth Environment Conference 2019 organized by Pure Earth Foundation in virtual mode from Hyderabad on 16<sup>th</sup> November 2019.
11. Participated in the Science Academies virtual Refresher Course on Recent Advances in Understanding Web of Life organized by the Department of Botany, Telangana University, Dichpally, Nizamabad Dist, TS sponsored by Indian Academy of Sciences, Indian National Science Academy and National Academy of Sciences, India during 15<sup>th</sup>-28<sup>th</sup> of March 2021.

12. Attended International Faculty Development Prog (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13<sup>th</sup> to 18<sup>th</sup> Sept 2021.
13. Attended a conference of Pure Earth Environment Conference 2021 organized by Pure Earth Foundation in virtual mode from Hyderabad on 27<sup>th</sup> November 2021.
14. Completed Training course of Introduction to Hydroponics a 12-hour training program conducted by Sarojini Naidu Vanita Maha Vidyalaya Exhibition Grounds in association with Little Greens Hydroponics LLP of Hyderabad during 22<sup>nd</sup> April to 9<sup>th</sup> May 2022.
15. Participated in 7<sup>th</sup> Asian PGPR conference for Sustainable and Organic Agriculture, PGPR Strategies to Support Next Generation Green Revolution in Food Production at Loyola academy (Autonomous) Secunderabad, on 5<sup>th</sup> and 6<sup>th</sup> September 2022.
16. Attended Gnanajyothi outreach programme for school students of Govt Boys High School, Amberpet, Hyderabad on 12/10/2022.
17. Attended workshop on PCR and Electrophoresis techniques organized by Cytomol Lab on 19/11/2022.
18. Department of Botany organized National Level Conference on Pure Earth Environment Conference in collaboration with Pure Earth Foundation on 26/11/2022.
19. Participated in faculty development program on Outcome Based Education on 05-12-2022 to 09-12-2022.
20. Attended two day workshop on Continuous Comprehensive Evaluation conducted by Osmania University on 5<sup>th</sup> and 6<sup>th</sup> October 2023.
21. Participated in online NEP Orientation and Sensitization Programme organized by UGC-Malaviya Mission Teacher

Training Center, Osmania University, Hyderabad from 06.11.2023 to 15.11.2023.

22. Attended one day workshop on Advancing Evaluation Practices: Paper setting, evaluation reforms and implementation of Continuous and Comprehensive Evaluation for post graduate programs in Osmania University on 22/12/2023.
23. Participated in three days National Workshop on Biological Techniques and Research Methodology organized by the Department of Zoology from November 23<sup>rd</sup> to 25<sup>th</sup> 2023 as a part of the Centenary Celebrations of University College for Women.
24. Participated in International Conference on Advances in Plant Sciences for Sustainable Future (ICAPSSF-2024) organized by the Department of Botany and Botany Alumni Osmania University, Hyderabad, TS, India during February 7<sup>th</sup> to 9<sup>th</sup>, 2024.

Mrs. Sirajunnisa

1. Attended FDP on art of teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha Vidyalaya.
2. Department of Botany organized national level conference on Pure Earth Environment conference in collaboration with pure earth foundation on 16/11/2019
3. Attended workshop on PCR and Electrophoresis techniques organized by Cytomol Lab on 19/11/2022.
4. Participated in FDP on Outcome Based Education on 0512-2022 to 09-12-2022 organized by Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad.

5. Department of Botany organized National Level Conference on Pure Earth Environment conference in collaboration with pure earth foundation on 26/11/2022.
6. Resource person on topic Explore the Areas of Intellectual Property Rights on 09/01/2023 organized by Sarojini Naidu Vanita Maha Vidyalaya.

**MSc., BOTANY TIME TABLE SEM I & III – 2023-2024**

<b>DAY</b>	<b>Period Class</b>	<b>1 10-11</b>	<b>2 11-12</b>	<b>3 12-1.00</b>	<b>1.00- 1.30</b>	<b>4 1.30-2.30</b>	<b>5 2.30 3.30</b>
<b>MON DAY</b>	SEM - I Room No- 10	Bryophyta (S.H.I)	Bio-Chemistry Practical (S.H.I+ S.U)		L	Taxonomy Practical (T.S. R + R.K)	
	SEM – III Room No- 11	Cell Biology (S.U)	E.P.P (S.S)	Phytogeography (T.S.R) Tissue Culture (R.K)	U	E.P.P Practical (S.U +S.S)	
<b>TUES DAY</b>	SEM - I Room No- 10	Taxonomy (R.K)	Algae (T.S.R)	Bio-Chemistry (S.U)	N	Taxonomy Practical (T.S. R + R.K)	
	SEM – III Room No- 11	Bio- Diversity (S.H.I) Molecular Genetics (S.S)	Bio - Diversity Practical (S.H.I) Tissue Culture Practical (R.K)		C	E.P.P Practical (S. U +S.S)	
<b>WEDNE S DAY</b>	SEM - I Room No- 10	Bryophyta (S.H.I)	Bio- Chemistry (S.U)	<b>Reference</b>	H	Algae Practical (T.S. R + R.K)	



	SEM – III Room No-11	Phytogeography (T.S.R)	Bio - Diversity Practical ( S.H.I )			Cell Biology Practical (S.U +S.S )	
		Tissue Culture ( R.K )	Tissue Culture Practical (R.K )				
Thursday DAY	SEM-I Room No-10	Bryophyta ( S.H.I )	Bio-Chemistry Practical ( S.H.I+ S.U )			Bryophyta Practical ( S.H. I +S.U )	
	SEM – III Room No-11	Cell Biology (S.U)	E.P.P ( S.S )	Phytogeography (T.S.R)	<b>B</b>	E.P.P ( S.S )	<b>Seminar</b>
				Tissue Culture ( R.K )			
FRIDAY	SEM - I Room No 10	Algae (T.S.R)	Taxonomy ( R.K )	Bio-Chemistry (S.U)	R	Algae Practical ( T. S.R + R.K )	
	SEM – III Room No-11	Bio- Diversity (S.H.I)	Phytogeography Practical ( T.S.R )		E	Cell Biology Practical (S.U +S.S )	
		Molecular Genetics ( S.S )	Molecular Genetics Practical ( S.S )				
Saturday DAY	SEM - I Room No-10	Algae (T.S.R)	Taxonomy ( R.K )	<b>Reference</b>	A	Bryophyta Practical ( S.H.I + S .S )	
	SEM – III Room No-11	Bio- Diversity (S.H.I)	Phytogeography Practical (T.S.R)		K	Cell Biology ( S.U )	
		Molecular Genetics ( S.S )	Molecular Genetics Practical ( S.S )				

### Distribution of Workload

M.Sc., II Theory 16 + practical - 32 per Sem

M.Sc., I Theory 12 + practical - 32 per Sem

Total workload 92 Credits

Number of hours per Lectures 18 hrs

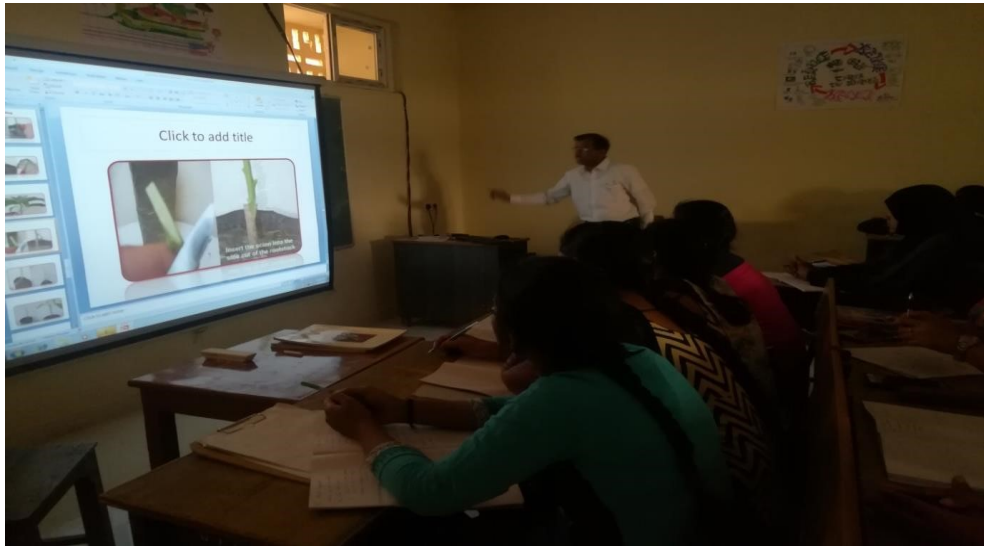
S. NO	NAME	SEMESTER - I		SEMESTER - II		SEMESTER - III		SEMESTER - IV	
		Theory	practical	Theory	practical	Theory	Practical	Theory	practical
1	Dr.T. Sudha Rani	I & III	I & III	I	I	III& IV	III & IV	III &IV	III & IV
2	Mrs. R. Kalyani	I & III	I & II & III	I	I & III	II & III	II & III	I	I&III &IV
3	Mrs. Ruhiya Sultana	II	II	II	II	I & II	I & II	II	I & II
4	Mrs. Shiphra Jones	II & IV	II & IV	III &IV	III & IV	I & II & III	I & II	II& I	I &II
5	Mrs. Siraj unnisa	IV	III & IV	IV	IV& II	IV& I	III & IV	III &IV	I& III&I V

### 3. ACTIVITIES ORGANIZED BY THE DEPARTMENT:

#### A) EXTENSION LECTURES:

1. 31.01.2019

Topic: Propagation Methods-Layering, grafting and types of Grafting Prof S. Gangadhar Rao of Osmania University, Hyderabad.



2. 06.02.2019

Topic: Demonstration of propagation Methods by grafting technique in Horticultural Plants

Prof S. Gangadhar Rao of Osmania University, Hyderabad.





3. 17.04.2019

Topic: Ethnobotany A Conspectus [Practicals too]

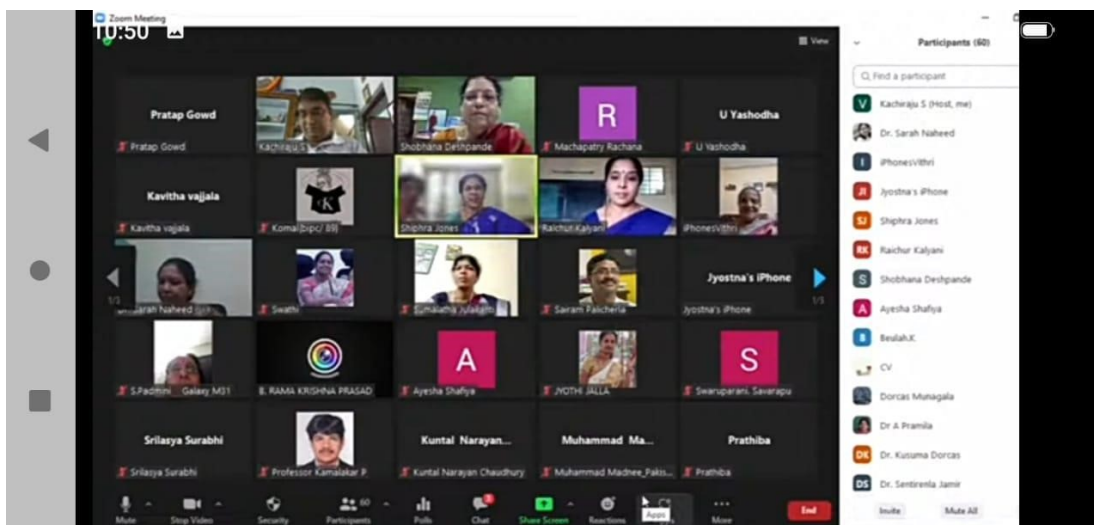
Prof Vatsavaya Raju of Kakatiya University, Warangal.



4. 07.11.2019  
Topic: Population Genetics, Hardy-Weinberg Law Prof Karnakar Reddy of Osmania University, Hyderabad.
5. 11.12.2019  
Topic: Fossils and Fossilization [Fossil Bryophytes and Fossil Pteridophytes]  
Prof Rama Krishna of Osmania University, Hyderabad.
6. 28.12.2019  
Topic: Taxonomic tools, GPS, GIS  
Dr. C Sudhakar Reddy [NRSC]

**7. Two day workshop conducted on Hydroponics on 7<sup>th</sup> and 8<sup>th</sup> of September 2021.**

**Two day National workshop on Hydroponics on 7<sup>th</sup> and 8<sup>th</sup> Sep 2021.**



8. 24.01.2024  
Topic: Fossils and Fossilization  
Dr. Chaya, HOD Saifabad  
Science College.



9. 24.01.2024  
Topic: Biodiversity Quadrature studies  
Dr. Venkata Ramana, Saifabad Science College





10. 29.01.2024

Topic: Remote Sensing, GIS, GPS and application in Taxonomy.

Dr. C. Sudhakar Reddy.

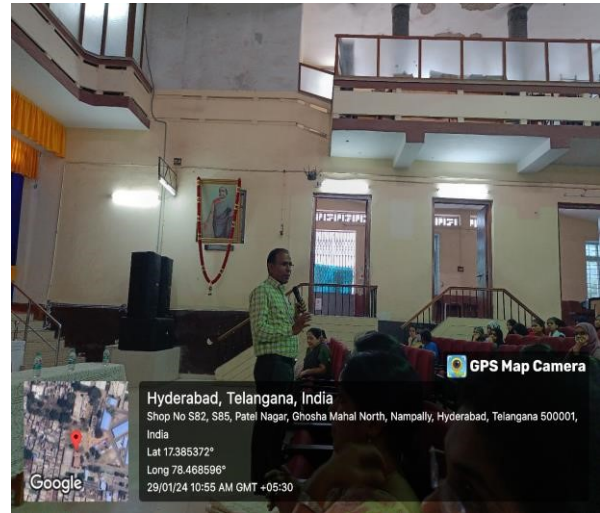






11. Lecture series: 23 01.2024 to 29.01.2024.





## 12. Eco Friendly Colors



Noise Pollution at certain areas of Hyderabad

Noise Pollution

**Definition:-**  
Noise is an unwanted sound energy and is also considered as a pollutant when it exceeds certain limits. Noise has a short persistence and decay time and hence does not remain in the environment for long period like air or water pollutant.

**Nature of a sound:-** Sound pressure is also mentioned in newton per square (N/m<sup>2</sup>).  
Sound is often described in terms of loudness but this cannot be measured like for sound frequency, sound pressure and sound intensity.

- Loudness may be described as a subjective auditory impression which is not synonymous with sound pressure.
- Loudness is expressed in a relative unit, called 'sone' or 'sone equals to the loudness of 4000 sound pressure at 1000 cycles per second.
- Normally hearing is most acute in the frequency range 2000-5000 Hz. Perfect hearing lies in the range of about 16 to 20,000 Hz.

Scale showing Common Sound Pressure Level:

Total Loudness

- The noise value of sound waves depends upon the following important factors:
  - The frequency of sound waves
  - The intensity of sound waves
  - The time of exposure of sound waves
  - Susceptibility of sound waves
- The unit of loudness expressed by the mathematical exponent of number 10 is called a bel one tenth of a bel is known for quantitative measurements.
- The unit of bel is considered to be the threshold of hearing.
- The loudness of a sound that a person can withstand without discomfort is about 80 db.
- Automobile horns may reach more than 90 decibels and a jet airplane at a distance of 100 feet may have an intensity of about 140 decibels.

**Measurement of sound:-**  
Sound energy travels in waves and is measured in frequency and amplitude depending upon the purpose of the wide range of measurement techniques and sound level descriptions have been used.

**Sound level meter:-**  
A sound level meter can measure sound pressure levels in the range from 20 db (A) - 140 db (A) at frequencies between 35 Hz and 20 kHz with an additional suitable microphone. Sound pressure can be measured by a sound level meter an instrument consisting of a first class microphone coupled to a good amplifier and terminating in a logarithmic indicator calibrated in decibels.

Control of Noise Pollution:-

- Turn off appliances at home and office.
- Shut the door when using noisy machines.
- Use ear plugs.
- Lower the volume when listening to song, radios and TVs.
- Stay away from noisy areas like industries, air ports, fairs.
- Follow the limits of noise levels.

Go green by planting trees because plants are good noise absorbers. Plants can reduce sound by 5-10 decibels around them.

⇒ Sound recorded in some places are given below:-

S.No	Area	Sound recorded (db)
1	LB Nagar	92.7 db
2	Ajzal Gunj	86.2 db
3	Matakept	97.3 db
4	Musharambagh	80.3 db
5	Nagole	93.2 db

R. Kalpani  
T. Suresha Banti  
Head  
Dept. of Botany  
Savitribi Naidu Vastha Maha Vidyapeetha

# Estimation of Total Hardness of

water:

M. Ekavansh  
1195-21-102-023  
200-18

### Estimation of Total Hardness of water

⇒ **Aim:** To estimate the hardness of given sample of water.

⇒ **Principle:** Hardness is generally caused by calcium and magnesium ions in the water. Calcium of some other metals. Magnesium ions are capable to precipitate the soap like ions, Magnesium are capable to precipitate the soap like ions, Magnesium are capable to precipitate the soap like ions. This contributing to the hardness. The concentration of these ions is very low in natural water calcium & magnesium ions forms a complex of wine red colour has got a stronger affinity towards calcium and magnesium ions and therefore by addition of EDTA [Ethylenediamine tetraacetic acid], the former complex is broken down and a new complex of blue colour is formed.

⇒ **Materials:** laboratory glass ware

⇒ **Reagents:-**

1. Ammonium buffer solution - Dissolve 10.5 gm of NH<sub>4</sub>Cl in 100 ml of distilled water to make up to the volume of 100 ml.
2. EDTA solution - Dissolve 3.7 gm of disodium salt of EDTA in distilled water to prepare a litre of solution.
3. Eriochrome black 'T' indicator - Dissolve 0.5 gm of EDTA / Eriochrome black 'T' indicator in 100 ml of 80% ethyl alcohol.
4. Sodium sulphide solution - Dissolve 5 gm of Na<sub>2</sub>S · 9H<sub>2</sub>O in 100 ml of distilled water and kept in the tight bottle to avoid oxidation.

⇒ **Procedure:-**

1. Take 50 ml of sample in a conical flask
2. Add 1 ml of buffer solution and 1 ml of Na<sub>2</sub>S solution
3. Add 4-5 drops of Eriochrome black 'T' indicator (or) too milky EBT powder and shake the solution. It turns to wine red colour.
4. Titrate the contents against EDTA solution until the wine colour of the solution turns to blue colour.

⇒ **Inference:-** The total hardness is generally caused due to the presence of these calcium and magnesium ions in the form of carbonates, chlorides and sulphates and they impart permanent hardness to water.

⇒ Tap water contains 200 mg/lit of hardness.

⇒ The sample of water shows the high concentration of Ca & Mg ions which in long term use causes joint pains, twisting of bones and death.

⇒ Total Hardness of water in Tapwater is 200 mg/lit

⇒ Total Hardness of water in pondwater is 60 mg/lit

⇒ **Hardness of water in Tapwater:**

SNO	Initial	Final	Vol of EDTA
1	0	12 ml	12 ml
2	0	10 ml	10 ml
3	0	10 ml	10 ml

Total Hardness of water mg/l =  $\frac{\text{ml of EDTA used}}{\text{ml of water sample}} \times 100$

$$= \frac{12 \times 100}{50} = 240 \text{ mg/lit}$$

⇒ **Hardness of water in Pondwater:**

SNO	Initial	Final	Vol of EDTA
1	0	3.5 ml	3.5 ml
2	0	3 ml	3 ml
3	0	3 ml	3 ml

Hardness of water mg/lit =  $\frac{\text{ml of EDTA used}}{\text{ml of water sample}} \times 100$

$$= \frac{3 \times 100}{50} = 60 \text{ mg/lit}$$

R. Kalyani

⇒ **Result:-**

1. Hardness of calcium in given pond water is 80 mg/lit
2. Hardness of calcium in given tap water is 180 mg/lit

⇒ **Hardness of calcium in Tapwater:**

SNO	Initial	Final	Vol of EDTA
1	0	24 ml	24 ml
2	0	24 ml	24 ml
3	0	24 ml	24 ml

Hardness of calcium in Tapwater =  $\frac{\text{ml of EDTA}}{\text{ml of sample}} \times 1000$

$$= \frac{24 \times 1000}{50} = 480 \times 1000 = 180 \text{ mg/lit}$$

⇒ **Hardness of calcium in Pondwater:**

SNO	Initial	Final	Vol of EDTA
1	0	4 ml	4 ml
2	0	3.5 ml	3.5 ml
3	0	4 ml	4 ml

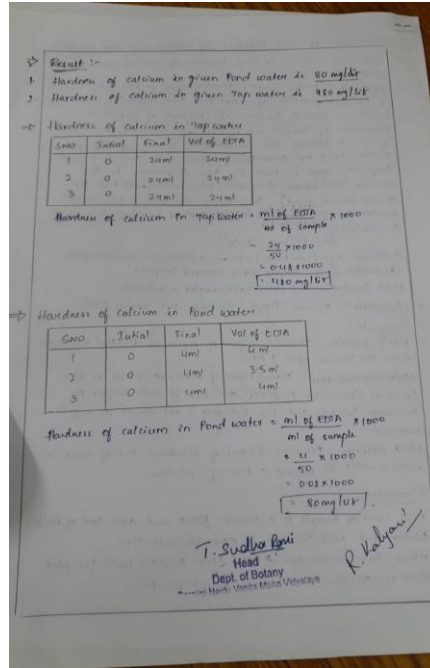
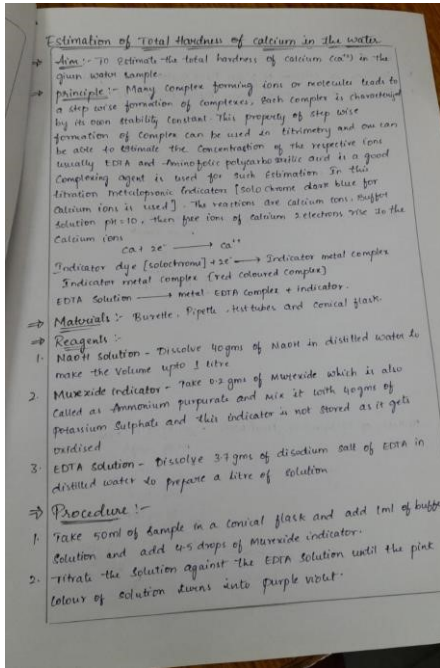
Hardness of calcium in Pond water =  $\frac{\text{ml of EDTA}}{\text{ml of sample}} \times 1000$

$$= \frac{4 \times 1000}{50} = 80 \times 1000 = 80 \text{ mg/lit}$$

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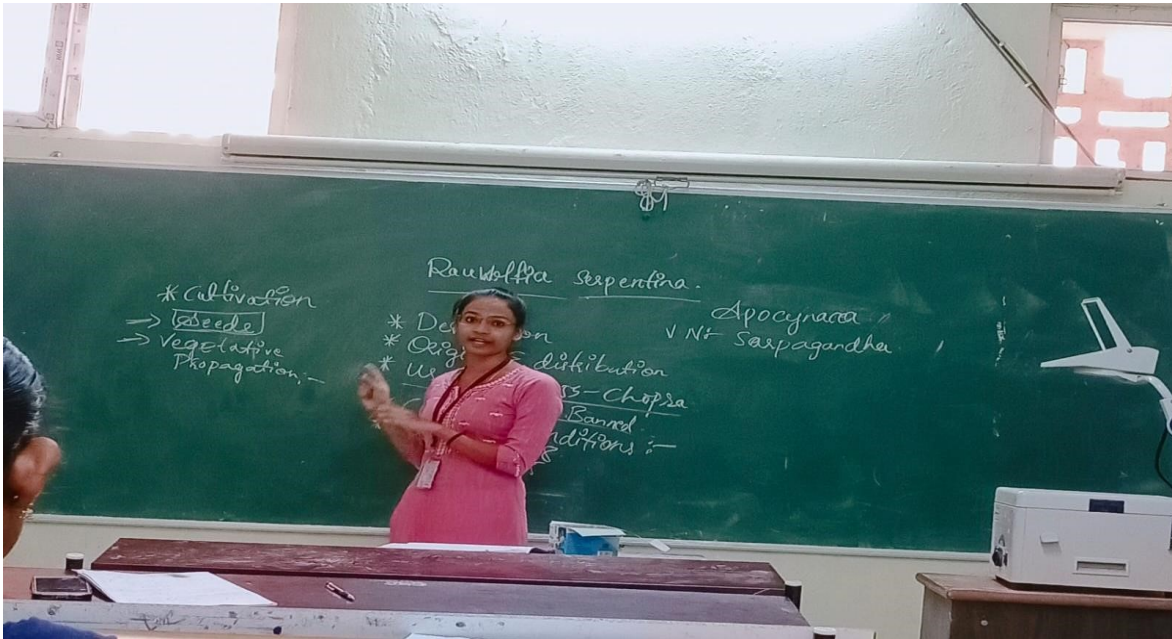
## Estimation of Calcium in the given water sample:



## c) Students Seminars







**d) Botanical tours:**

1. Botanical Tour to Laknavaram during 2017-2018.
2. Botanical tour to Coringa Wildlife sanctuary and Maredumilli (March 2020)
3. Field trip to Narsapur Forest (August 2024).

Botanical Tour to Laknavaram during 2017-2018

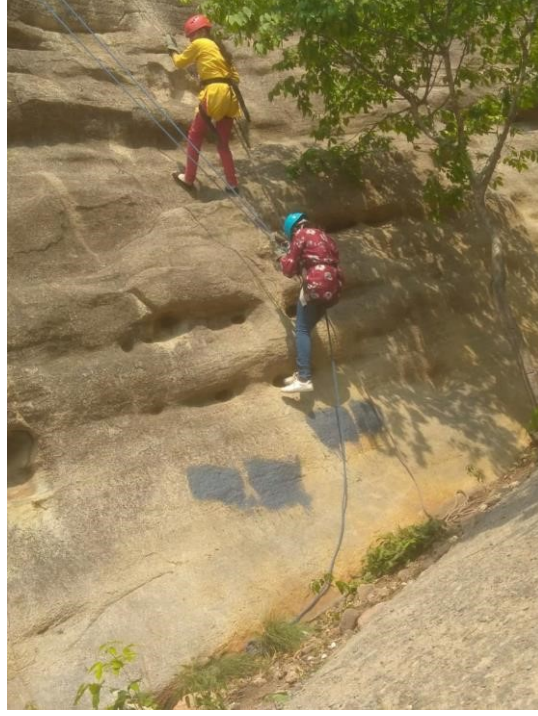


Interaction with Forest Range Officer at Lakhnnavaram about the conservation of Forests.



Visit to Pandavula Gutta with a series of hillocks running north to south called as Pandavula Guhalu (Caves).





Students Rock climbing at Pandavula Guttalu

### పాండవులగుట్టల్లో పర్యాటకుల సందడి



రాక్ క్లైంబింగ్ చేసేందుకు వచ్చిన పర్యాటకులు

**రావులపల్లి(రేగొండ), న్యూస్టుడే:** జయశంకర్ భూపాలపల్లి జిల్లా రేగొండ మండలం శివారులోని పాండవుల గుట్టల్లో పర్యాటకులు క్లైంబింగ్ చేసేందుకు ఎస్ఎస్ వనిత మహా విద్యాలయానికి చెందిన విద్యార్థులు రావడంతో శుక్రవారం సందడిగా మారింది. రాక్ క్లైంబింగ్ కోసం వరంగల్ ఉమ్మడి జిల్లాల నుంచే కాకుండా హైదరాబాద్ నుంచి పెద్ద ఎత్తున పర్యాటకులు తరలివచ్చారు. క్లైంబింగ్ శిక్షకులు బాస్కర్, శ్రీకాంత్, రవీందర్ సమక్షంలో పర్యాటకులు ఉదయం నుంచి సాయంత్రం వరకు ఉత్సాహంగా గడిపారు.

Botanical tour to Coringa Wildlife sanctuary and Maredumilli(March2020).



Maredumilli Forest visit at Coringa Wildlife Sanctuary



Narasapur Forest Urban Park Visit



**Kondapur, Telangana, India**  
 P892+QQF Narsapur Forest urban park, Hyderabad - Narsapur Rd, Kondapur, Telangana  
 502313, India  
 Lat 17.719438°  
 Long 78.301963°  
 09/08/24 10:51 AM GMT +05:30

**Student Strength:**

<b>YEAR</b>	<b>NUMBER ADMITTED</b>
2023-2024	28
2022-2023	30
2021-2022	37*
2020-2021	34
2019-2020	37
2018-2019	36

2017-2018	33
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4. **Infrastructure and Facilities:**

**DETAILS OF FURNITURE IN THE DEPARTMENT AND LABS**

**PG. BOTANY DEPARTMENT**

**M.Sc., I Year Lab**

<b>S.NO</b>	<b>PARTICULARS</b>	<b>QTY</b>
<b>1.</b>	<b>Big table (wooden)</b>	<b>11</b>
	<b>Small size table (wooden)</b>	<b>01</b>

<b>3.</b>	<b>Stools</b>	<b>30</b>
<b>4.</b>	<b>Wooden Chairs</b>	<b>03</b>
<b>5.</b>	<b>Glass Almirah(wooden)</b>	<b>02</b>
<b>6.</b>	<b>Iron Lockers</b>	<b>03</b>
<b>7.</b>	<b>Seating Iron tables</b>	<b>1</b>

### M.Sc., II Year Lab

<b>S.NO</b>	<b>PARTICULARS</b>	<b>QTY</b>
<b>1.</b>	<b>Big table (wooden)</b>	<b>8</b>
<b>2.</b>	<b>Small size tables (wooden)</b>	<b>01</b>
<b>3.</b>	<b>Iron Lockers</b>	<b>04</b>
<b>4.</b>	<b>Stools</b>	<b>20</b>
<b>5.</b>	<b>Wooden Chairs</b>	<b>02</b>
<b>6.</b>	<b>Big Almirah (wooden)</b>	<b>02</b>
<b>7.</b>	<b>Seating Iron tables</b>	<b>01</b>

### TISSUE CULTURE LAB

<b>S.NO</b>	<b>PARTICULARS</b>	<b>QTY</b>
<b>1.</b>	<b>Small size tables (wooden)</b>	<b>03</b>
<b>2.</b>	<b>Big table (wooden)</b>	<b>01</b>
<b>3.</b>	<b>Stools</b>	<b>04</b>

### PREPARATION ROOM

<b>S.NO</b>	<b>PARTICULARS</b>	<b>QTY</b>
<b>1.</b>	<b>Big table (wooden)</b>	<b>05</b>
<b>2.</b>	<b>Small size tables (wooden)</b>	<b>03</b>
<b>3.</b>	<b>Iron Lockers</b>	<b>01</b>
<b>4.</b>	<b>Big Almirah( Iron)</b>	<b>01</b>
<b>5.</b>	<b>Wooden Chairs</b>	<b>08</b>
<b>6.</b>	<b>Wooden Alma rah</b>	<b>03</b>
<b>7.</b>	<b>Small Fridge</b>	<b>01</b>
<b>8.</b>		

**NUMBER OF LABS WITH DESCRIPTION (titles)**

**PG. BOTANY DEPARTMENT**

- 1. M.Sc., BOTANY I Year Lab**
- 2. M.Sc., BOTANY II Year Lab**
- 3. TISSUS CULTURE LAB**
- 4. PREPARATION ROOM**

**NUMBER OF LCD'S in the DEPARTMENT**

**PG. BOTANY DEPARTMENT**

- 1. M.Sc., BOTANY I Year CLASS ROOM NO =10**
- 2. M.Sc., BOTANY II Year CLASS ROOM NO =11**

**DETAILS OF EQUIPMENT PURCHASED DURING LAST FIVE YEARS WITH BILLS 2018-2023**

**PG. BOTANY DEPARTMENT**

2018 - 2019

S.NO	PARTICULARS	TOTAL AMOUNT
NIL		

2019 - 2020

S.NO	PARTICULARS	TOTAL AMOUNT
1.	Over-head projector twin lamp	7650.00/-
2.	Iodination flask flat stoppered	4900.00/-
	<b>TOTAL Rs/-</b>	<b>14,809.00/-</b>

2020 - 2021

S.NO	PARTICULARS	TOTAL AMOUNT
NIL		

2021 - 2022

S.NO	PARTICULARS	TOTAL AMOUNT
1.	White screen 100 inch with Installation	8850.00
2.	Magnetic Stirrer with plate IMLH/REMI	8900.00
3.	Triple beam balance	350.00
	<b>TOTAL Rs/-</b>	<b>25,075.00</b>

<b>S.NO</b>	<b>PARTICULARS</b>	<b>TOTAL AMOUNT</b>
<b>1.</b>	<b>EPSONXGA 3300 LM With HDMI port</b>	<b>49999.00</b>
<b>2.</b>	<b>Digital spectrophotometer (340nm-960nm) with 2sample holder 304</b>	<b>45000.00</b>
<b>3.</b>	<b>Noise level meter</b>	<b>1500.00</b>
	<b>TOTAL Rs/-</b>	<b>1,13,869.00</b>

<b>S.NO</b>	<b>PARTICULARS</b>	<b>TOTAL AMOUNT</b>
<b>1.</b>	<b>Digital spectrophotometer (340nm-96nm) systronics</b>	<b>44500.00</b>
<b>2.</b>	<b>Digital spectrophotometer (340nm-960nm) with 1sample holder 301</b>	<b>35000.00</b>
	<b>TOTAL Rs/-</b>	<b>93,810.00</b>

### **LAB-WISE LIST OF EQUIPMENT PG-Botany**

#### **M.Sc., I Year Lab**

<b>S.NO</b>	<b>PARTICULARS</b>
<b>1.</b>	<b>Calorimeter</b>
<b>2.</b>	<b>Magnetic Stirrer with plate IMLH/REMI</b>



<b>3.</b>	<b>Centrifuge</b>
<b>4.</b>	<b>Digital Spectrophotometer</b>
<b>5.</b>	<b>Water bath</b>

### **M.Sc., II Year Lab**

<b>S.NO</b>	<b>PARTICULARS</b>
<b>1.</b>	<b>Dissection Microscopes</b>
<b>2.</b>	<b>Compound Microscopes</b>

### **TISSUE CULTURE LAB**

<b>S.NO</b>	<b>PARTICULARS</b>
<b>1.</b>	Autoclave
<b>2.</b>	BOD Incubator
<b>3.</b>	Laminar flow

### **PREPARATION ROOM**

<b>S.NO</b>	<b>PARTICULARS</b>
<b>1.</b>	Grinder+3Jars
<b>2.</b>	Lux –Meter
<b>3.</b>	Muffle furnace
<b>4.</b>	Triple-Balance
<b>5.</b>	Laboratory Balance
<b>6.</b>	Ocular Micrometers
<b>7.</b>	Stage Micrometers
<b>8.</b>	PH Meter

9	RH Meter
<b>10</b>	Balance
<b>11</b>	Stop clocks

**List of Equipment identification PG-Botany**

<b>S. No</b>	<b>Description of the Asset</b>	<b>Units</b>
1.	Calorimeter	3
2.	Magnetic Stirrer & peddles	2
3.	Balance	1
4.	Autoclave	1
5.	Grinder+3Jars	1
6.	Lux – Meter	1
7.	Muffle furnace	1
8.	Triple-Balance	1
9.	BOD Incubator	1
10.	Voltage Stabilizer	1
11.	Laminar flow	1
12.	U.V Chamber	1
13	Over-head projector	2
14.	Centrifuge	1
15.	PH Meter	1
16.	RH Meter	2
17.	Inverted Microscopes	1

18.	Stop clocks	4
19.	Ocular Micrometers	11
20.	Dissection Microscopes	28
21.	Compound Microscopes	45
22.	Stage Micrometers	11
23.	Digital colorimeter	2
24.	Laboratory Balance	1
25.	Magnetic stirrer with plate	1
26.	Magnetic stirrer with plate	1
27.	Triple beam balance	1
28.	Digital Spectrophotometer	3
29.	Noise level meter	1

**Lab Information and Equipment:**

S. No	Description of the Asset	Units
1	Hone for Microtone	01
2	Colorimeter	4
3	Microtome-Knife	1
4	Magnetic stirrer & peddles	3
5	Balance	2
6	Autoclave	1
7	Grinder + 3 jars	1
8	Lux-meter	1
9	Muffle furnace	1
10	Microtome	1
11	Triple balance	1
12	BOD incubator	1
13	Voltage stabilizer	1
14	Laminar flow	1
15	UV chamber	1

16	Over-head projector	2
17	Slide projector	1
18	Centrifuge	1
19	Electrophoresis	1
20	PH meter	1
21	RH meter	2
22	Spectrophotometer	1
23	Inverted microscopes	1
24	Ocular microscopes	12
25	Olympus microscopes	17
26	Dissection microscopes	28
27	Compound microscopes	45
28	Stage micrometers	1
29	Dell projector	1
30	Assembled CPU	1
31	HP 1020 plus printer	1
32	Creative speakers	1
33	Dell wireless keyboard, mouse	1
34	Digital colorimeter	2
35	Laboratory balance	1
36	Water bath	1
37	Digital spectrophotometer: Model 304	1
38	Visible spectrophotometer	1
39	Digital spectrophotometer Model 301 & 305	1

### **List of Research Lab Equipment**

S.No	Description of the Asset	Units
1.	Trinocular microscope(Microphotography)	1
2.	Trinocular microscope	1
3.	Stereo Binocular Microscope	1

4.	Hi- Air- Air sampler	1
5.	Tilak Air Sampler	1
6.	Olympus Monocular Microscope	1
7.	Test sieves of various measurements	7
8.	Photoelectric calorimeter	1
9.	P <sup>H</sup> meter with combined electrode	1
10.	P <sup>H</sup> meter –pen type	1
11.	stage micrometer	2
12.	ocular micrometer	2
13.	Fridge	1
14.	Autoclave	1
15.	cooling centrifuge	1
16.	Digital Balance	1
17.	Micro Centrifuge	1
18.	Digital P <sup>H</sup> meter	1



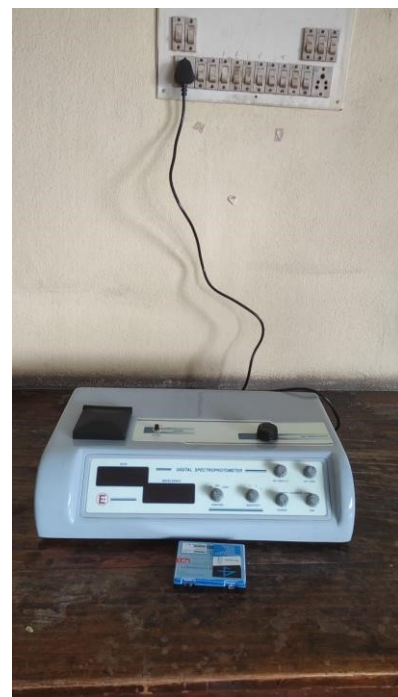
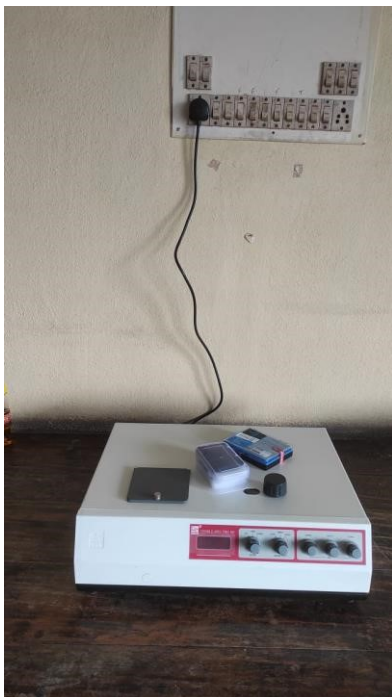
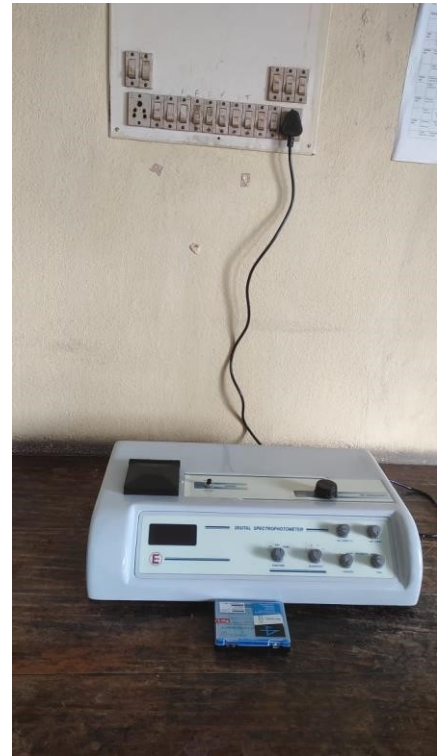
19.	Soxhlet Extraction Apparatus	1
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Digital spectrophotometer : Model 304



Visible spectro 105: Digital spectrophotometer Model 301 & 305 **Library books purchased: 2018-2023**

Dept. of BOTANY PG April 2018-2023								
Year	Total No. of Books Purchased till date 15/05/2023	Total No. of Titles Purchased till date 15/05/2023	Accessio.No	No.of Titles	Total No. of Books	Amount spent of Books	No.of Journals /periodicals	Amount spent of journals
2018-2019	1599	822	7582-7619	37	38	20006.00	4	6200.00
2019-2020	1632	854	7764-7787 7824-7827 7828 7829 7830 7831	32	33	23807.00	NILL	NILL
2020-2021	1632	854	NILL	NILL	NILL	NILL	NILL	NILL
2021-2022	1632	854	NILL	NILL	NILL	NILL	NILL	NILL
2022-2023	1657	873	7956-7980	19	25	15095.00	6	19000.00
<b>TOTAL</b>				88	96	<b>58908.00</b>		<b>25200.00</b>

**E-resources available: N-List and DELNET resources available for academic purposes.**



### **3. Student Support Services:**

2021-2023 Batch and 2022-2024 Batch

Mentor: Dr. T. Sudha Rani

Mentor report **2022-2023**

Msc., Botany final year (3<sup>rd</sup> semester) students with hall ticket nos 1175-21-502-001 to 010 have been allotted. Roll No 009 has not reported in the 1<sup>st</sup> Sem.

Two meetings were conducted in the semester, i.e. 10/11/2022 for the first time and 08/12/2022 second meeting.

#### **Issues:**

1. NET and SET preparation.
2. How to prepare for the exams
3. Self-confidence and communication issues.
4. Family issues-taking care of the kids and financial issues for not attending the classes regularly.
5. Health issues.
6. Topics for projects and seminars.

#### **Suggestions:**

1. Continuous preparation for the NET and SET as well as for other competitive examinations along with the PG subjects has been suggested.
2. Following newspapers and magazines for current affairs and recent scientific developments has been suggested.
3. Communication with friends by explaining subject topics and general issues gives self-confidence and improves communication skills.

4. Making some kind of arrangement for kids and taking up small part-time jobs like taking tuitions to generate income has been suggested and to attend classes as much as possible.
5. Taking nutritive food and balanced diet to improve immunity and general health has been suggested.
6. Topics for the projects and seminars has been suggested which are helpful to cover their subject topics better.

**Mentor: Mrs. R. Kalyani**

- Report on mentor-mentee meetings of **2021-2022**
- During the year 2021-2022 mentor mentee meeting for 2nd Sem students was held on 30/11/2022.
- Students raised issues regarding their academics, backlogs, and health issues etc.
- Counselling and guided with information regarding their backlogs, maintaining good health and how to improve in the academics.
  
- During the year 2021-2022 meeting was held on 28/12/2022.
- Students raised issues related to their health, academics and one student by name Shireesha raised about her eyesight issues.
- One student by name Teja Sree suffering with health issues post Covid-19.
- Guided students with tips to improve in their academics, counselled Shireesha to seek the medical help with an ophthalmologist.
- Precautions shared to Teja Sree regarding post Covid issues.
  
- During the year **2022-2023** mentor mentee meeting for 1<sup>st</sup> year students was held on 28/04/2023.

□

Issues were raised regarding preparation for competitive exams, travelling issues, family issues and financial issues.

- Guidance provided with required information to prepare for competitive exams, suggested tips for time management.
- During the year 2022-2023 mentor mentee meeting for 1<sup>st</sup> year students was held on 08/06/2023.
- Issues were raised regarding preparation for competitive exams, travelling issues, family issues and financial issues.
- Guidance provided with required information to prepare for competitive exams, suggested tips for time management.

#### Report of Mentor-Mentee for the year 2022-2023

- During the year 2022-2023 meeting for 1st year students was held on 05/1/2023.
- Issues were raised regarding competitive exams, family issues, health issues, financial issues and irregularity to the college.
- Guidance provided with required information, to prepare for competitive examination, handling issues at home and self-care tips to maintain good health and guided students stressing the need to be regular to college.

During the year 2022-2023 mentor mentee meeting was held on 03/02/2023.

- Issues were raised regarding travelling, financial family and health issues.

□

Guided and counselled to the students regarding maintaining good health and advised to start early who are facing travelling issues and to handle issues at home.

**2023-24**

30/10/2023

No of students Allotted: 10

Hall ticket Nos: 1175-22-502-001 to 010 III

Sem: Issues raised:

1. Timings issue (Leaving all students at a time)
2. Irregular timings Hostel food on Sundays.
3. Cleanliness issues of washrooms.
4. Delay to attend classes because of transport issues with state run buses.
5. Travelling distances to reach college.

05/12/2023

III Sem

1. Local guardian issues for hostellers.
2. More academic stress.
3. Unable to cope up with syllabus.
4. No free time in college.
5. Academic syllabus is too heavy.

Mentor: D. Shiphra Jones

□

### Mentor-Mentee meeting for II years

Ist Meeting was conducted on 18/1/2023 and 7 students have attended the meeting discussing various aspects raised by the mentees and the issues they are facing and need to be addressed.

- Issues related to general health, household situations and long commuting to college were raised.
- Counselling one student by name Divya Phani K with mental health issues and guided her to seek medical help and guided her to the psychiatrist and she is continuing with her therapy.
- Guided students in handling their domestic issues and with long travel durations and utilizing the time in an appropriate way.

2<sup>nd</sup> meeting was held on 31/1/2023 and 6 students attended the meeting.

- Issues related to health, low confidence and low self-esteem, career guidance for the future were raised.
- Gave suggestions and guided one student by name Sony who is struggling with low confidence levels, how to be bold and to gain confidence and to achieve her goals.
- Provided career guidance and cleared the doubts of the students and a student by name Rahil Fatima who needed further guidance for the same and she was provided with the information she required.

3<sup>rd</sup> Mentor-Mentee meeting was held on 28/3/2023 and 6 students attended the meeting and issues were raised regarding health, struggling with low confidence levels, travel issues and mental health issues.

□

Guided the students with self-help tips in handling stress and seeking professional help when required, utilizing their travel time in an appropriate manner to rest, meditate or read.

Guided them to have strong will powers by having good habits with moral values which imparts strong characters.

4<sup>th</sup> meeting was held on 27/6/2023 and 6 students attended and the issues were raised related to family issues, health and career options.

Counselled the students to handle family and health issues with selfhelp tips and seeking required help when needed.

Guided them to have good sound sleep and good eating habits which ultimately leads to reduce health issues and then to have healthy minds.

Counselled them to be safeguarding themselves against all bad habits which are so rampant in the society nowadays and the youngsters falling prey to ill habits often spoiling their bright futures and precious lives.

### **Mentor-Mentee meeting for II years**

Date of the meeting: 18/01/2023

Ist Meeting was conducted on 18/1/2023 and 7 students have attended the meeting discussing various aspects raised by the mentees and the issues they are facing and need to be addressed.

Issues related to general health, household situations and long commuting to college were raised.

Counselled one student by name Divya Phani K with mental health issues and guided her to seek medical help and guided her to the psychiatrist and she is continuing with her therapy.

Guided students in handling their domestic issues and with long travel durations and utilizing the time in an appropriate way.

Date of the meeting: **31/01/2023**

2<sup>nd</sup> meeting was held on 31/1/2023 and 6 students attended the meeting.

Issues related to health, low confidence and low self-esteem, career guidance for the future were raised.

Gave suggestions and guided one student by name Sony who is struggling with low confidence levels, how to be bold and to gain confidence and to achieve her goals.

Provided career guidance and cleared the doubts of the students and a student by name Rahil Fatima who needed further guidance for the same and she was provided with the information she required.

Date of the meeting: **28/03/2023**

3<sup>rd</sup> Mentor-Mentee meeting was held on 28/3/2023 and 6 students attended the meeting and issues were raised reg health, struggling with low confidence levels, travel issues and mental health issues.

Guided the students with self-help tips in handling stress and seeking professional help when required, utilizing their travel time in an appropriate manner to rest, meditate or read.

Guided them to have strong will powers by having good habits with moral values which imparts strong characters.

Date of the meeting: **27/06/2023**

4<sup>th</sup> meeting was held on 27/6/2023 and 6 students attended and the issues were raised related to family issues, health and career options.

Counselled the students to handle family and health issues with selfhelp tips and seeking required help when needed.



Guided them to have good sound sleep and good eating habits which ultimately leads to reduce health issues and then to have healthy minds.

Counselled them to be safeguarding themselves against all bad habits which are so rampant in the society nowadays and the youngsters falling prey to ill habits often spoiling their bright futures and precious lives.

Name of the Mentor: Sirajunnisa

Number of Students allotted: 10

Number of meetings conducted during 1<sup>st</sup> Sem: 02

Date of first counselling session: **25/01/2023**

Date of second counselling session: **03/03/2023**

Issues raised: Few students joined late in second and third phase of counselling so could not perform well in first internals.

Guidance provided: advised them to go through the lecture notes and approach the concerned lecturer if they are having any doubts.

Number of meetings conducted during 2nd Sem: 02

Date of first counselling session: **29/04/2023**

Date of second counselling session: **16/06/2023**

Issues raised: Long travelling distances and irregularity due to personal issues.

Guidance provided: Advised them to start early so that they can reach on time. For irregular students, asked them to go through the lectures notes and approach the concerned lecturer if they are having any doubts.

## **PARENT TEACHER MEETINGS:**

Parent teacher meetings were conducted regularly in each semester, to interact with parents and to update them regarding their wards performance in studies and college. Grievances of the parents like dogs menace in the college ground, cleanliness, special permission because of certain health issues of the students which need quick attention, permission to attend same semester classes as per the request of parents because of health condition of their girls, are addressed and necessary action was taken to resolve the issues.

## **STUDENT CLUBS:**

### **ECO-CLUB REPORT OF 2018-2019**

To the existing garden, students contributed some Hydrophytes such as *Nymphaea* and *Azolla*, and few medicinal plants like *Terminalia arjuna*, *Andrographis paniculata*, and *Withania somnifera*.

Regular maintenance of the garden has been taken by MSc, final year students. All the PG Botany faculty and some students of final year MSc., were the coordinators to take care of the garden, medicinal plants garden, and plants outside the college premises.

### **ECO-CLUB REPORT OF 2019-2020**

All the PG-Botany faculty and the final year students of MSc., were the coordinators for the maintenance of the garden. Two more medicinal and spice plants-*Cinnamomum zylanicum* and *C. tamala* had been added to the garden.

Grafting techniques workshop has been conducted by Prof. Gangadhar of Osmania University, using different coloured Hibiscus, Roses, and Bougainvillea plants contributed by the students.

Students had hands on experience to do various grafting methods, some got good results as well.

### **ECO-CLUB REPORT OF 2020-21**

Faculty of PG-Botany were the coordinators to the Eco-club. Six of the final year students of MSc., Botany were the coordinators to maintain the eco-club activities.

Harita Haram programme has been carried out in the garden and all the core committee members participated in it. Medicinal plant Nyctanthus, different varieties of Mussaenda, Ixora, and Tecoma plants had been planted.

Students actively participated in maintaining the garden along with pest management (bandicoots) and cleaning of the garden.

### **ECO-CLUB REPORT OF 2021-22**

From March 18<sup>th</sup> of 2020 to Jan 2021 due to Covid-19 the college has been closed for six months, during which we conducted online classes. During this period most of the herbs and shrubs were completely dried up. Replantation of majority of the plants were needed.

Clearing efforts along with acquiring new plants has been made to make the garden live once again. Students actively participated in the whole process.

Students of MSc., Botany and Zoology were taken to Horticulture Department Training Programme on Roof Gardening. Students were highly motivated with this visit and initiated their first steps on terrace gardening (Oct 20<sup>th</sup> of 2021).

### **ECO-CLUB REPORT OF 2022-23**

Faculty and student coordinators had taken care of the garden and the other trees outside the college. Geo-tagging of the plants has been taken up in this year. Final year students of MSc., Botany Ms Bhavani, Ms. Neelima, Ms. Kheerthana, Ms. Sobiah and Ms. Hafsa collected the information of the plants growing in the garden to make QR codes.

Ms. Neelima and Ms. Bhavani prepared the QR codes for all the plants in the garden.

Few new medicinal and few indoor plants has been added to the existing plants.

Hydroponics units had been inaugurated in the hostel premises in the month of October of 2022. Hydroponic units had been used to raise leafy vegetables, Botany students of the hostel were the caretakers.

## **ECO-CLUB REPORT OF 2023-24**

With the help of the students of PG-Botany, garden has been redesigned and added few medicinal and ornamental plants to the existing plants in the garden.

QR codes were made to the new entries and ID cards had been made for all the plants for the easy identification purpose to everyone. Few creepers such as Mandevilla (White and red), *Leucophylla fruticosa*, *Furcraea*, *Bucida buceras*, had been added to the list.

Medicinal plants like *Bacopa* and *Mimosa pudica* had been added to the garden.

With the concept of gifting a plant Ecoclub organized plant sale counter on Alumnae day on 23<sup>rd</sup> Dec 2023.

On 29<sup>th</sup> Dec students of MSc., Botany adopted various plants to

increase the greenery of their surroundings.







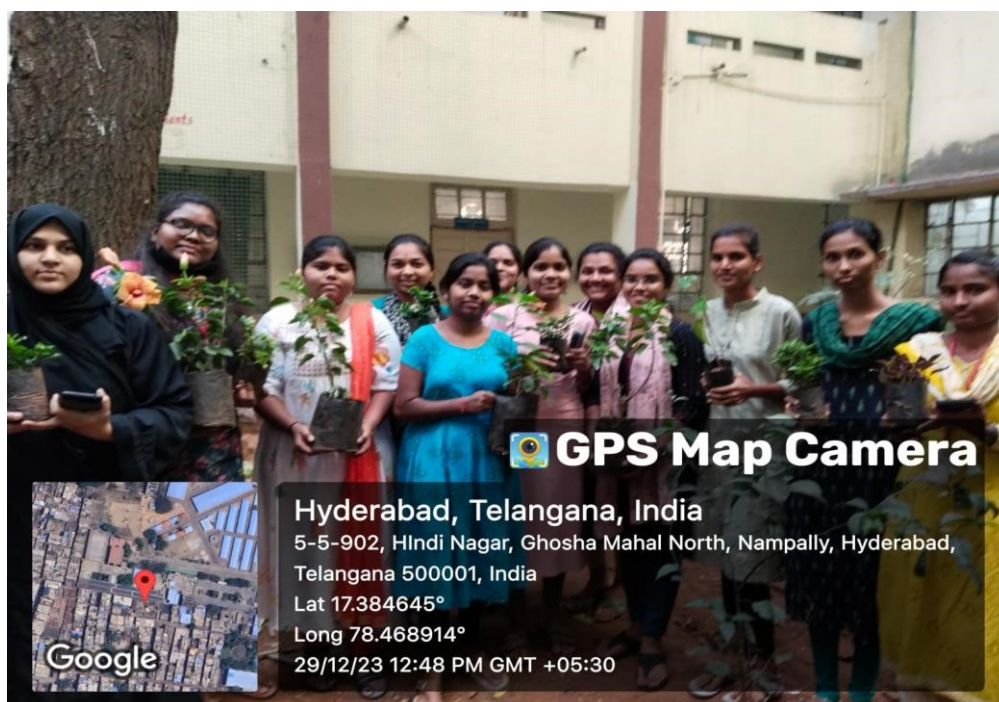
### Students Extracurricular Activities:

2. Shalini secured third prize in 5<sup>th</sup> Pure Earth Environmental Conference 2022.
3. M. Bhavani participated and won 3<sup>rd</sup> prize in E-photography competition /Pet Show competition held on Nov 12<sup>th</sup> 2022 at Sarojini Naidu Vanita Maha Vidyalaya.
4. **Harshitha** secured second prize in Art Competition held during the 82<sup>nd</sup> (2023) All India Industrial Exhibition organized by Exhibition Society 2023.
5. R. Tejashree of MSc., Botany participated in E-photography competition /Pet Show competition held on Nov 12<sup>th</sup> 2022, at Sarojini Naidu Vanita Maha Vidyalaya
6. A. Divya participated in Elocution competitions held at a Two Day National Seminar on science and technology in India: achievements and challenges organized by Department of Botany UCS, Osmania university, Hyderabad on the eve of National Science Day (NSD-2023), supported by Telangana State Counsel of Science and Technology (TSCOST) during Feb 14-15, 2023.



7. Shalini and Shree Latha of MSc., 2<sup>nd</sup> year participated in cultural programmes on Pg & MBA, Fresher's party-2023.
8. Rahil Fatima of MSc., 1<sup>st</sup> year participated in cultural programme on Pg & MBA, Fresher's party-2023.
9. Students of MSc., 2<sup>nd</sup> year attended Open Day at University college of science, Saifabad on 25/04/2023
10. MSc., 1<sup>st</sup> year students participated and completed one day workshop on Polymearse chain reaction hands-on technique conducted by Department of Molecular Biology, Cytomol labs, Hyderabad on 19/11/2022.
11. Tahura Nurin secured second prize in National Science Day project competitions on 28/02/2024 held at Sarojini Naidu Vanita Maha Vidyalaya.

## 2. Adopt a plant by MSc., Students.



### 3. Higher education: 2015-2017

1. Sushma----- Pursuing masters research in Biotechnology along with Internship at Roslin, CT, UK.
2. Amtul----Pursing Masters in Biology, Bradley University, USA (2017-2019)
3. Varsha-----MSc., Bioprocessing and Biotherapeutics at Teesside University, UK. (2019-2021).
4. Mani Jyothi-----Masters in Health informatics at Governor's state University, Chicago USA (2019-2021).

### 4. Job opportunities: 2015-2017

1. Vijaya Lakshmi-Junior Lecturer at Gurukul Junior College for Girls, Jogipet
2. Veni Madhavi-----Research Scholar OU, Founder & Consultant-Landscape Gardener @ Vedic Vanas.



3. Afshan Sultana-----Junior Lecturer in Telangana Minority
4. Yamuna Rani----- Junior Lecturer in Telangana Minority Residential Junior College

Let. No. 5851K202022-21

**APPOINTMENT ORDER ON OUTSOURCING BASIS**

Sub. M/s. Suraksha Security Services-Hyderabad (Outsourcing Agency) Shri/mt G YAMUNA RANI appointed as JUNIOR LECTURER IN BOTANY in the existing vacancy in the TELANGANA MINORITIES RESIDENTIAL SCHOOL & JUNIOR COLLEGE (PATANCHERU BOYS), SANGAREDDY District, Telangana State-District In-charge.

Shri/mt G YAMUNA RANI appointed as JUNIOR LECTURER IN BOTANY in the existing vacancy in the TELANGANA MINORITIES RESIDENTIAL SCHOOL & JUNIOR COLLEGE (PATANCHERU BOYS), SANGAREDDY District, Telangana State on Outsourcing basis. Further it is here by mentioned the appointment made with the following conditions.

1. Appointment is purely temporary and the services may be terminated at any point of time without assigning any reason.
2. The Agency is competent to remove his appointment from out sourcing service, if you are not performing the duties satisfactorily which is pointed out by concerned Officer as well as Agency.
3. The individual will be covered R.F.F.
4. The individual work as per order of the concerned authorities. If fails this same you will be terminated.
5. The individual will be entitled to leave as per existing rules of Government of Telangana.
6. The individual is expected to always maintain the highest standards ethics and acceptable behavior and at all times during employment. If fails this same the services will be terminated.
7. Your employment will periodically be reviewed at any point of time during your services, if it is found that you are not performing and discharging your duties to the satisfaction of concerned authorities. The same may be decided by the Principal Employer, your services will be terminated.
8. You are liable to attend that during the services, if it is found that you are not performing the same pointed out by the Principal Employer, your services will be terminated.
9. This appointment shall stand from 25-08-2022 till further order. If the Department permits the fresh order will be issued on the basis of your services.



To,  
 Shri/mt G YAMUNA RANI  
 Copy to: THE PRINCIPAL, MINORITIES RESIDENTIAL SCHOOL & JUNIOR COLLEGE (PATANCHERU BOYS), SANGAREDDY District, Telangana State.  
 Copy to: R.E.C.D.C. SANGAREDDY  
 Copy to: DOWRY SANGAREDDY  
 and with a request kindly intimate the date of joining of the individual to this Agency.

Head Office Phn : 9121200101 | DFF Quater : 9121200020 | DFF Chaser : 9121200181 | CSI Quater : 9121200940  
 GST : 9121200293 | Salary Quater : 9121200797 | Salary Certificate : 9121200202

Branches: Hyderabad | Bangalore | New Delhi | Chennai | Mumbai | Vijay

# 1. Archana----Trained Graduate Teacher-Telangana Social Welfare Residential Educational Institutions Society



## 2017-2019

1. Sunanda----Panchayat Secretary
2. Rugveda----Constable in Police Dept
3. Priyanka----Constable in Police Dept

## **INITIATIVES FOR ADVANCED AND SLOW LEARNERS:**

### **Advanced learners 2018-2023**

For the benefit of advanced learners, they are provided with material that encourages critical thinking and exploring opportunities for doing research on their own.

Also challenging them with increasingly complex tasks, providing opportunities for independent exploration and research.

Projects also helping them to learn and excel in their journey to learn.

#### **2018-2020**

- |                    |                   |
|--------------------|-------------------|
| 1. 1175-18-502-009 | K. Bhagya Lakshmi |
| 2. 1175-18-502-012 | M. Tejaswi        |
| 3. 1175-18-502-017 | K. Manisha        |
| 4. 1175-18-502-020 | M. Sahithi Sudha  |

#### **2019-2021**

- |                    |                       |
|--------------------|-----------------------|
| 1. 1175-19-502-001 | B. Hema Prasanna Vani |
| 2. 1175-19-502-010 | U. Rabiya             |
| 3. 1175-19-502-032 | Maleeha Yasmin        |

#### **2020-2022**

- |                    |                 |
|--------------------|-----------------|
| 1. 1175-20-502-001 | Ameena Tahura   |
| 2. 1175-20-502-002 | Sangoji Vasudha |
| 3. 1175-20-502-003 | S. Srilasya     |
| 4. 1175-20-502-004 | Bushera         |
| 5. 1175-20-502-006 | Saniya Shagufta |
| 6. 1175-20-502-008 | Tabassum Fatima |
| 7. 1175-20-502-016 | E. Sri Lekha    |
| 8. 1175-20-502-024 | B. Shalini      |
| 9. 1175-20-502-031 | V. Gnanojwala   |
| 10.1175-19-502-033 | G. Sravanthi    |

### **2021-2023**

1. 1175-21-502-001	Saniyaunnisa
2. 1175-21-502-002	Syeda Hafsa Amreen
3. 1175-21-502-004	Syeda Sobiah Afsar Khan
4. 1175-21-502-005	Asma Jabeen
5. 1175-21-502-006	Saleha Begum
6. 1175-21-502-021	M. SaiPriya
7. 1175-21-502-025	P. Keerthana
8. 1175-21-502-028	R. Greeshma
9. 1175-21-502-034	Syed Naziya Sultana

### **2022-2024**

1. 1175-22-502-001	Tahura Nurin
2. 1175-22-502-002	Haya Afreen
3. 1175-22-502-003	Shazia Afreen
4. 1175-22-502-006	Bushra Fatima
5. 1175-22-502-010	E. Sreevani
6. 1175-22-502-014	N. Swetha
7. 1175-22-502-017	U Sreevani

### **SLOW-LEARNERS: 2018-2020**

### **ACTION TAKEN**

A supportive and inclusive learning environment where slow learners can reach their targets and full potential is provided in the college and department.

Allowing slow learners to practice skills repeatedly until they feel comfortable and proficient.

By using visual aids, hands on experience and activities, social interaction to build their confidence and enhance their learning skills.

P. Mounika: Irregular, family responsibilities, and language problem.

K. Sowmya: Health issues.

M. Kovala: Personal issues: Counselling and suggested her to handle her situations.

K. Vyshnavi: Health issues: Counselling her to take care and handle her haemoglobin levels.

### **2019-2021**

G. Sowjanya: Irregular : Counselling

N. Sowmya: Irregular : Counselling

G. Rani: Irregular : Counselling

### **2020-2022**

Shaheen Begum: Irregular and language problem: Counselling

P. Naga Mani: Detained: Counselling

### **2021-2023 2<sup>nd</sup> yrs**

Ateequnnisa: Irregular because of family responsibilities and preparing for competitive examinations: Counselling

R. Teja Sri: After Covid health issues: She couldn't perform well because of her health issues as she had trouble recovering from after effects of Covid.

L. Bhargavi: Language problem: Counselling and guided

G. Hareesha: Language problem: Counselling

K. P. Divya: Health issues: Counselling, guided to seek medical help with her mental health issues, and counselling her parents and siblings too in handling her situations, permitted by Principal to attend classes again of same semester because of her issues.

A. Divya: Health issues: Counselling and guided her to seek medical help for top neurologists in the city.

Nazima Amtul: Irregular-health issues: Counselling

Ch. Sowmya: Irregular Counselling her as she lost her uncle, she couldn't attend her examination.

Asma Afreen : Irregular and preparing for competitive examinations: Counselling

Ifra Sameen: Irregular because of family responsibilities: Counselling

E. Shireesha: Irregular and health issues: Counselling her to seek medical help for her eye issues, not doing better.

C. Rajitha: Irregular and language problem and preparing for competitive exams: Counselling and provided guidance.

### **2022-2024 1<sup>st</sup> yrs**

R. Asmitha: Regular but slow learner with language problem with no hard-work.

A. Jhansi: Irregular.....Counselling and guided.

P. Harika: Irregular and language problem.....Counselling and guided.

### **2<sup>nd</sup> yrs 2021-23 Batch**

Asma Afreen: Irregular

#### **6. Research and Innovation**

1. Veni Madhavi-----Research Scholar OU
2. S. Vasudha ---- -Pursuing PhD., at Hyderabad Central University
3. V. Gnanojwala-----Junior Project Assistant at Botanical Survey of India, Deccan Regional Center, Hyderabad.
4. Shriya Working at NIN.

## **Publications by the faculty members:**

Mrs. Ruhiya Sultana

1. Published a paper entitled “Anti-inflammatory Drugs from Marine Microbes”: A Review in the Book Title „Handbook of Marine Microbes the Therapeutic Prospective and Applications“ with ISBN: 978-93-5457-895-3 on 4th May 2021.
2. Published a paper entitled, “Impact of Climate change on Biodiversity in India. Review” in the book “Frontiers in Life Science Volume II (ISBN: 978-81-953600-8-6) in the month of June-July, 2021.
3. Published a paper entitled “Tinospora – A Miraculous Medicinal plant. Review” in Multidisciplinary Research, volume-2 , with ISBN: 978-93-90996-57-5 on 30/8/2021.
4. Published a paper title: Miracle Tree: An Overview on Multipurpose Properties of Moringa oleifera in '*Journal of Research & Development*' A Multidisciplinary International Level referred and Peer reviewed Journal Impact Factor-7.265, ISSN:2230-9578, 20 July-2021, Volume-11, Issue-26, (Page.19).

D. Shiphra Jones

### **Research Publications:**

1. Arbuscular mycorrhizal colonization in plant species of family Polygonaceae(2015)
2. Association of Arbuscular Mycorrhizal Fungi in some medicinal plants of Rutaceae and Apiaceae from Telangana State, India(April 2018)
3. Occurrence of Arbuscular Mycorrhizal Fungi in certain members of Polygonaceae from Telangana State India (Dec 2019).



4. Multiplication of Arbuscular Mycorrhizal Fungi on Two susceptible Host Plants, Sorghum vulgare and Eleusine coracana (July 2021).
5. Open Access Journals- Need of the Hour (Aug 2021).
6. Arbuscular Mycorrhizal fungal association in medicinal plants (July 2022)

## 7. Out-Reach Programs:

**Students: Outreach programme by MSc., Botany final year students:**

MSc., Botany final year students took an initiative to educate school children on the importance of tree plantation, environmental protection, and water conservation at various schools in different districts and in Hyderabad. They have provided saplings to the students and involved them in plantation in the school premises.

S. No	Name of the Student	Village	District	Date
1	Ch. Rajitha	Muchlapalli	Mahabubnagar	31.03.2023
2	A. Divya	Shadnagar	Ranga Reddy	01.04.2023
3	K. Keerthana	Badangpet	Ranga Reddy	04.04.2023
4	Rahil Fatima	Vikarabad	Vikarabad Dt	06.04.2023
5	Hafsa	Himmatpura	Hyderabad Dt	08.04.2023
6	Asma Jabeen	Himmatpura	Hyderabad Dt	08.04.2023

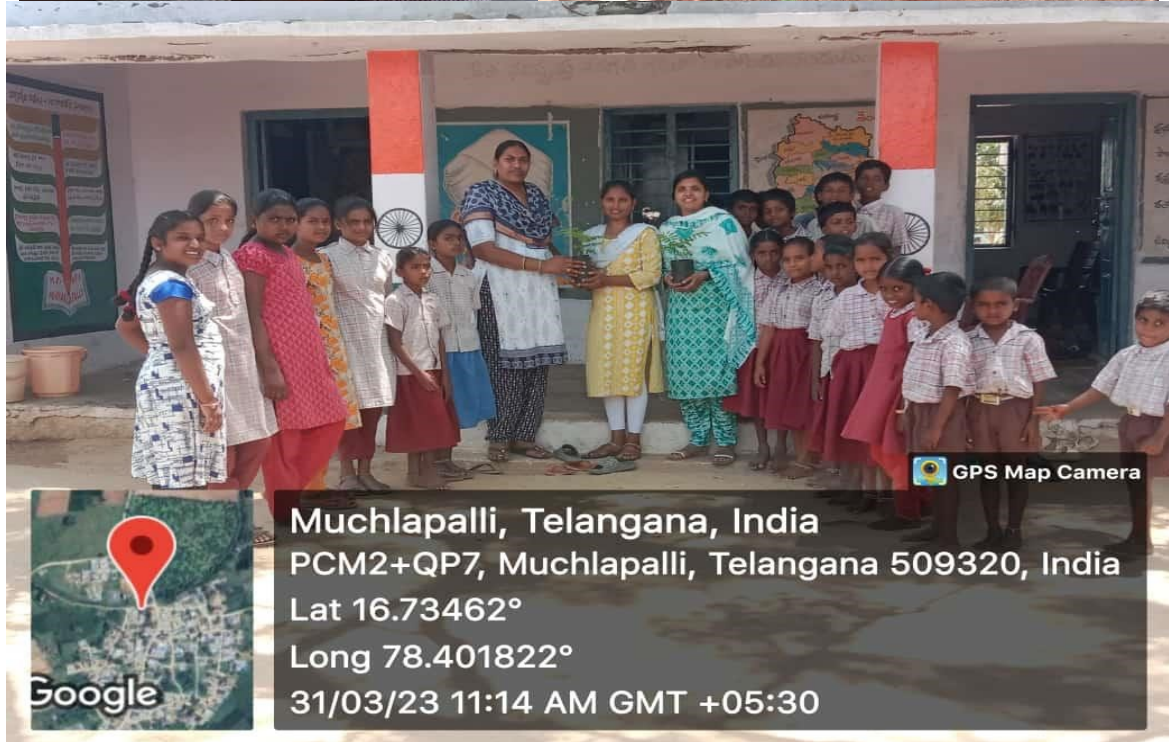




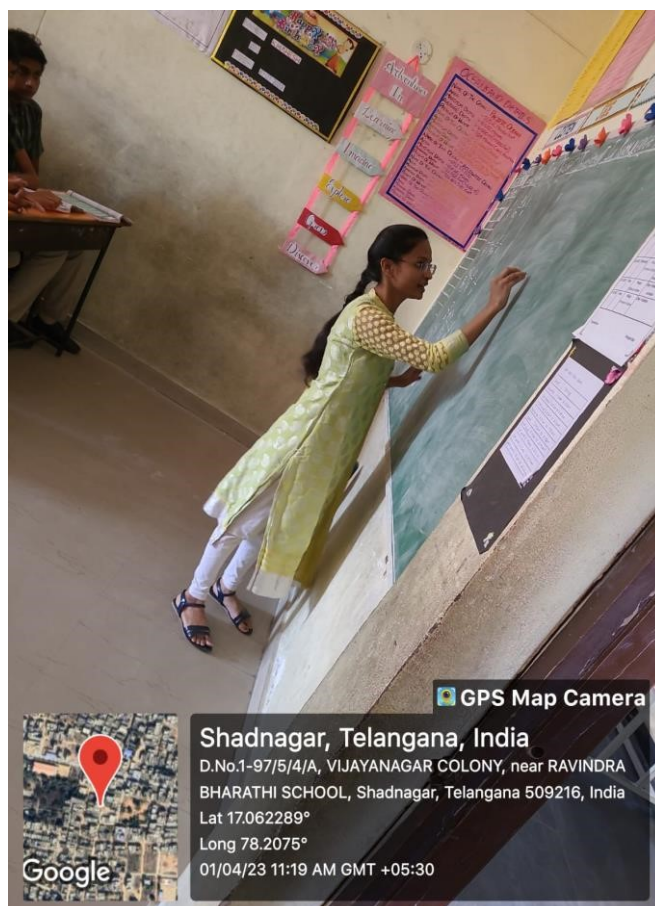
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 Long 78.40185°  
 31/03/23 10:35 AM GMT +05:30  
 Google



GPS Map Camera  
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 Long 78.401813°  
 31/03/23 11:02 AM GMT +05:30  
 Google



GPS Map Camera  
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 PCM2+QP7, Muchlapalli, Telangana 509320, India  
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 Google



### **Staff and students:**

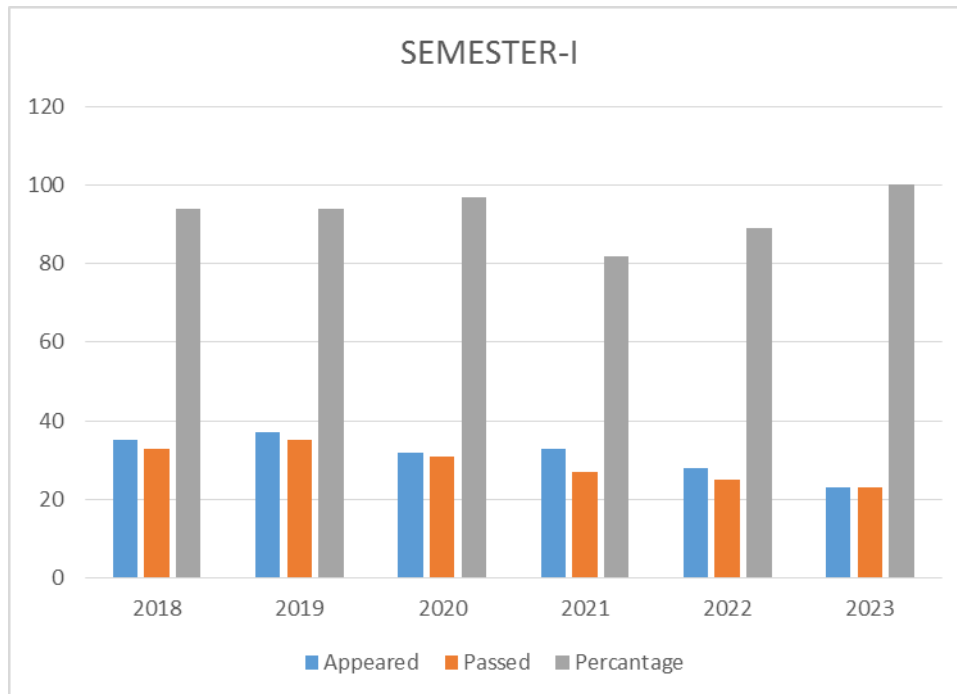
1. Gnanajyothi-An Outreach programme for school students of Government Boys High School, Amberpet, Hyderabad on 12/10/2022.
2. Department of Botany-PG staff organized an outreach Programme for Government Boys High School in Amberpet reaching to the students explaining various specimens and slides enriching their scientific knowledge.
3. Few of the students of MSc., Botany enthusiastically explained to the students various topics like photosynthesis, cell organelles, environmental protection and about various fungi.

## 8. Result Analysis:

### RESULT ANALYSIS FROM 2018-2022

Academic year	Appeared	Passed	Pass %
2018 Sem I	35	33	94
2019 Sem I	37	35	94
2020 Sem I	32	31	97
2021 Sem I	33	27	82
2022 Sem I	28	25	89
2023 Sem I	23	23	100

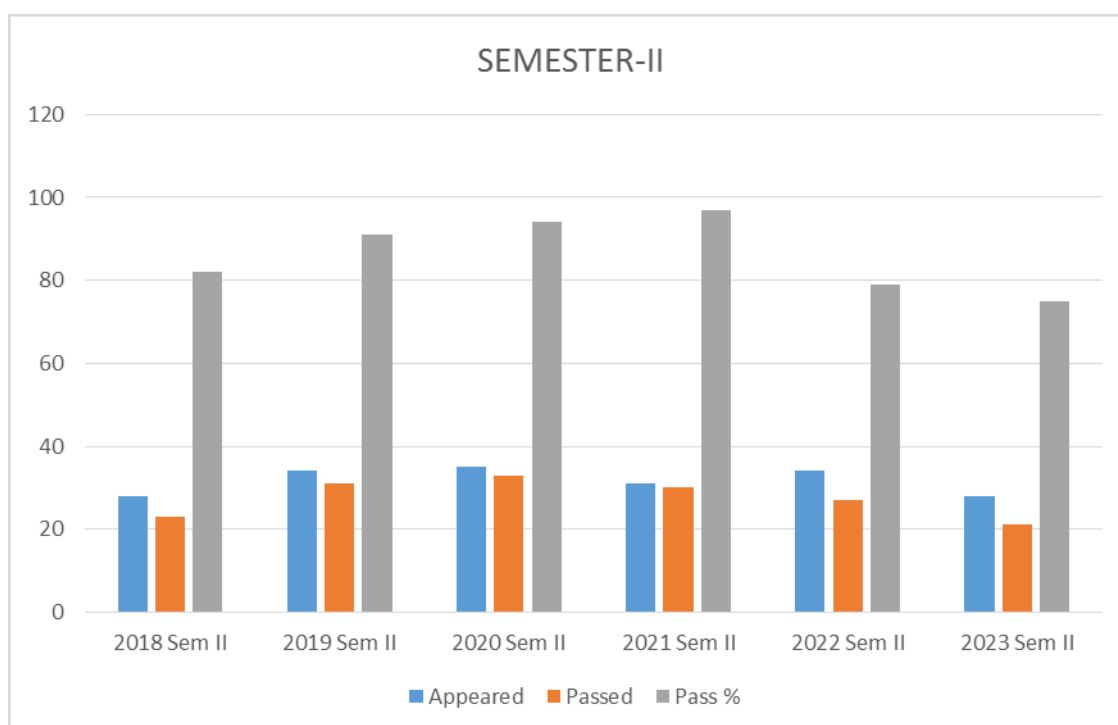
#### SEMESTER-I



## RESULT ANALYSIS FROM 2018-2023

### SEMESTER-II

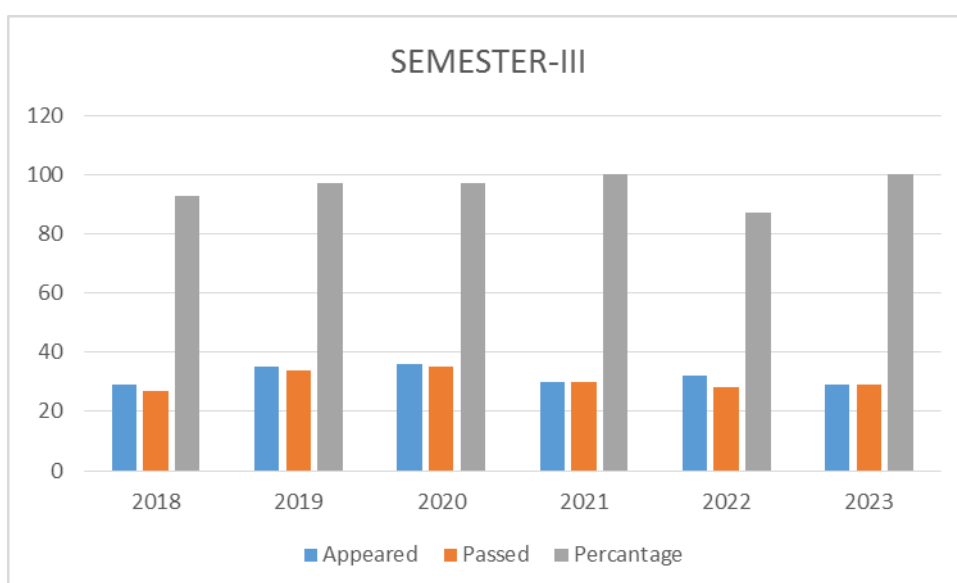
Academic year	Appeared	Passed	Pass %
2018 Sem II	28	23	82
2019 Sem II	34	31	91
2020 Sem II	35	33	94
2021 Sem II	31	30	97
2022 Sem II	34	27	79
2023 Sem II	28	21	75



## RESULT ANALYSIS FROM 2018-2022

### SEMESTER-III

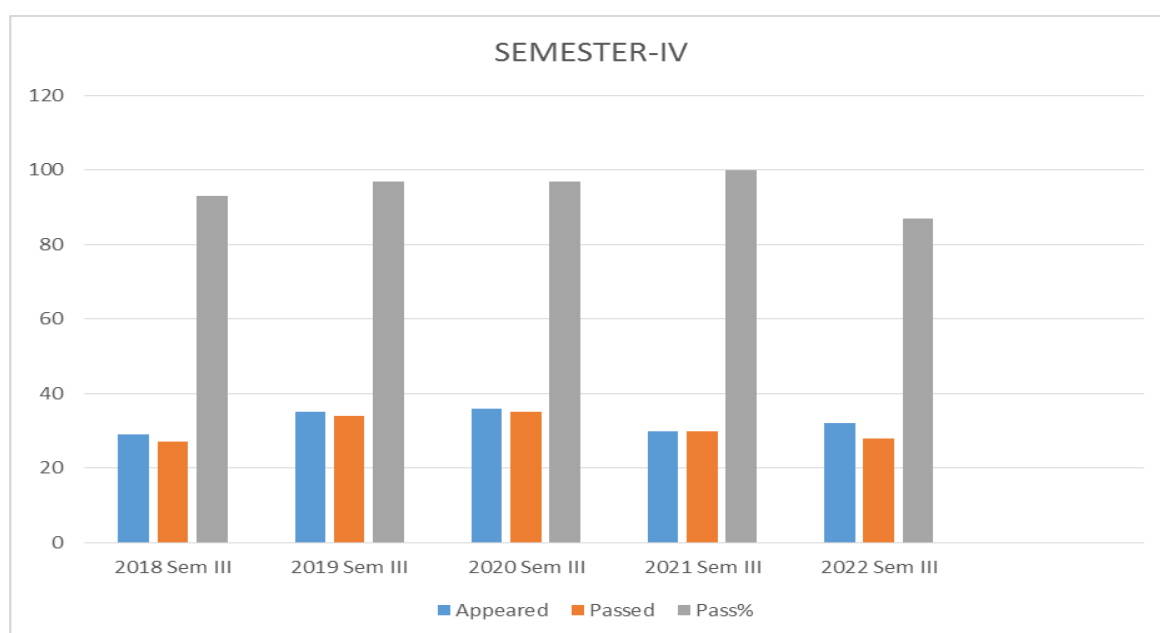
Academic Year	Appeared	Passed	Pass%
2018 Sem III	29	27	93
2019 Sem III	35	34	97
2020 Sem III	36	35	97
2021 Sem III	30	30	100
2022 Sem III	32	28	87
2023 Sem III	29	29	100



## RESULT ANALYSIS FROM 2018-2023

### SEMESTER-IV

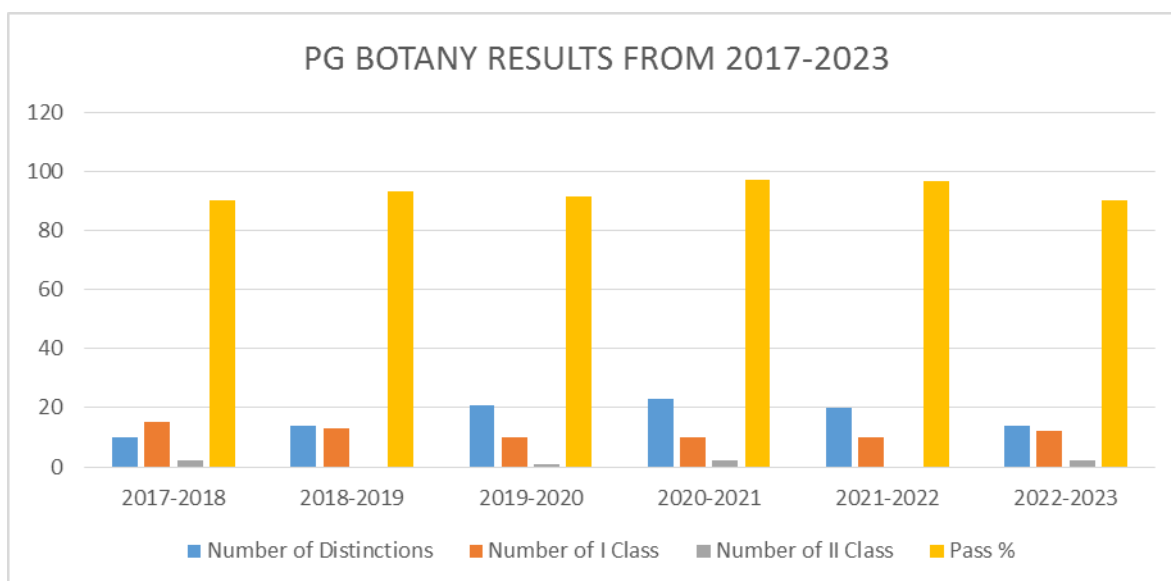
Academic Year	Appeared	Passed	Pass%
2018 Sem IV	30	30	100
2019 Sem IV	29	28	97
2020 Sem IV	35	33	94
2021 Sem IV	36	35	97
2022 Sem IV	31	30	97
2023 Sem IV	31	28	90





**DEPARTMENT OF BOTANY PG**  
**RESULT ANALYSIS FROM 2017-2023**

Academic Year	Number of Distinctions	Number of I Class	Number of II Class	Pass %
2017-2018	10	15	2	90
2018-2019	14	13	0	93.1
2019-2020	21	10	1	91.4
2020-2021	23	10	2	97.2
2021-2022	20	10	0	96.7
2022-2023	14	12	2	90.3



**9. Students achievements and Recognitions: Gold medals**

### GOLD MEDAL WINNERS:

#### M.Sc. Botany I YEAR GENERAL PROFICIENCY MEDALS- 2022-2018

S.NO	H.T.NO	STUDENT NAME	GOLD MEDAL	GRADE SGPA
1.	1175-21-502-001	Saniya unnisa	GOLD MEDAL	8.6
2.	1175-20-502-001	Ameena Tahura	GOLD MEDAL	8.75
3.	1175-19-502-001	B. Hema Prasanna Vani	GOLD MEDAL	8.67
4.	1175-18-502-012	M. Tejaswi	GOLD MEDAL	8.45

#### M.Sc. Botany II YEAR GENERAL PROFICIENCY MEDALS

S.NO	H.T.NO	STUDENT NAME	GOLD MEDAL	GRADE CGPA
	1175-21-502-001	Saniya unnisa	Gold medal for securing highest marks in PG sections from Exhibition Society	8.76
1.	1175-20-502-001	Ameena Tahura	GOLD MEDAL	8.78
2.	1175-19-502-001	B. Hema Prasanna Vani	GOLD MEDAL	8.60
3.	1175-18-502-012	M. Tejaswi	GOLD MEDAL	8.43



## 10. Department Annual calendar:

Regular visits to Nursery mela and Horticulture Show on 26<sup>th</sup> Jan and August 15<sup>th</sup> every year, National Science day will be celebrated by conducting competitions to students i.e February 28<sup>th</sup> of every year.



## 11. Department Best Practices:

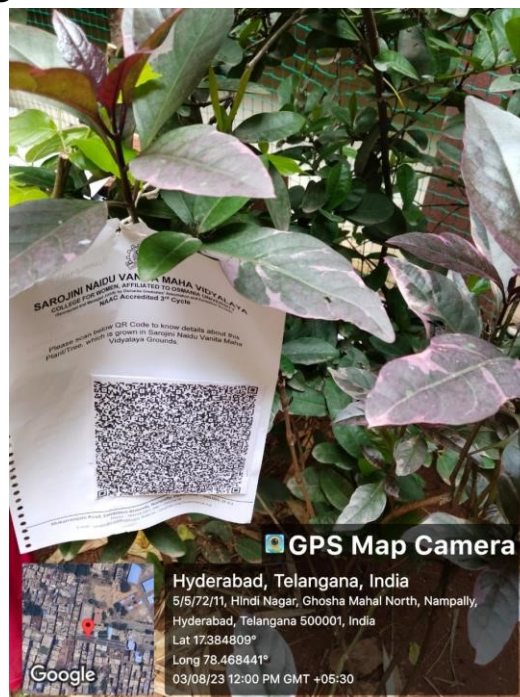
### 1. Maintaining Eco-club.



## 2. Maintaining Hydroponic Unit.



3. Project work on various topics such as algal member studies on various water samples, identification of plants through ICT tool plant-net and QR code, assessment of water quality from various lakes of the city, Ethno-medicinal studies, assessment of noise pollution through noise level meter at various places in twin cities.



#### 4. Workshop on Grafting.



#### **Expected outcome:**

1. Students will be sensitized to growing different plants and to conserving, and hand-on experience with gardening.
2. Learning new technique of raising soilless plants.
3. Learning various latest e-technologies in learning subject through various apps available like plantnet, QR Code, using instruments estimation of noise levels at various places, and assessing water quality, and ethnomedicinal studies.
4. Will learn horticultural techniques like grafting and gardening tips from the experts.

## **12. Future plans and Initiatives:**

### Future Plans:

1. Standardizing the protocols to grow different types of leafy vegetables and vegetables through Hydroponics.
2. Establishing the propagation methods of ornamental plants to the level of small scale sale counter in the college.
3. Quality assessment of the air at various places in twin cities to monitor pollution levels during different seasons.
4. Biodiversity studies in the villages (native places of the students) of various districts of Telangana to prepare the database of medicinal plants, endemic and endangered plants of that region.
5. Drug evaluation of market samples of crude drugs to identify their purity, quality, and adulteration.
6. Biodiversity of crop plant collection, students to understand the genetic diversity reflection on their phenotypes and their implications in commerce.
7. Testing adulteration in food products and in edible oils.
8. Phytochemical analysis of various locally available medicinal plants for the pharmacognostic studies.
9. Ethno-medicinal studies of various tribal regions of Telangana to enhance our traditional knowledge.
10. Proposals to collaborate with Research Labs (Cytomol Labs) and Institutions (Telangana Mahila Viswa Vidyalayam, Koti) and University College of Science, Saifabad) to provide interdisciplinary knowledge and skills enhancing students team activity to do their project works.

## Gallery:







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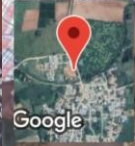
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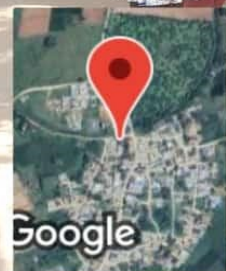
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I have read the offer, understood and accept the above mentioned terms and conditions.

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Date:

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Yours faithfully,  
  
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