

Sarojini Naidu Vanita Maha Vidyalaya

Department of Botany

Vision

Development of Scientific Aptitude into the Students in the field of Plant Sciences.

Mission

To Educate ,Inculcate and Integrate the Concepts of Plant Sciences

1.Introduction

Sarojini Naidu Vanita MahaVidyalaya has been setting records in the arena of education since its inception in 1957.The degree section of the college got its affiliation in 1962 and started intermediate in 1970. The post-graduate course i.e. MSc. Botany was started in 1991.

The department's three faculty members have served the institution as principals of the college. Three faculty members received best teacher awards from State government. The department of Botany has organized refresher course, national and international seminars and conferences. A refresher course in collaboration with AP State Council of Higher Education and University Grants Commission was organized in 1993. An international symposium on Biodiversity and Sustainable Development was conducted in 1994. The research laboratory of the department is a recognized Research Centre since 1993.

A national conference on Aerobiology was organized in 2002, National Seminar on “Current Trends in Medicinal Botany in the Era of Biotechnology” in 2004, a national conference on “Modern Trends in Plant Taxonomy and Biodiversity Conservation for safeguarding Medicinal Plant Wealth” was held in 2008 and XIX APSI Scientist meet and UGC sponsored national conference on “Plant Biotechnology towards nutrition and Nutraceutical Potential “was organized in Collaboration with Academy of Plant Sciences, Muzaffarnagar in 2010.

A seminar on Biodiversity and its Conservation was organized in collaboration with Telangana Biodiversity Board in 2017. The Department was sanctioned major and minor research projects from UGC. Six research scholars were awarded PhD's and one faculty member is pursuing her research. The faculty of the Department publishes research papers in the reputed National and International

A Webinar on "Globalized Lockdown – A Boon on Environment Protection" organized by Dept of Botany Sarojini Naidu Vanita Maha Vidyalaya on 5 th June 2020 .Orientation for UG and PG students on "Botany-Avenues in jobs and higher studies "on 20th August, 2020.

. Science Academies Two Day Lecture Workshop on "Progress in life sciences with emphasis on role of micro-nutrients on human health" on 9,10 February 2021 sponsored by the Academies of sciences, India. Two Day National Workshop on "Hydroponics" was organised on 20,21 September 2021 Faculty Development Programme in collaboration with Little Greens on "Hydroponics" on 22-04-2022 to 09-05-2022. Gnanajothi outreach programme was organized for school students of Government Boys High School, Amberpet, Hyderabad on 12th October 2022.. Department of Botany organized national level conference on "Pure Earth Environment conference" in collaboration with Pure Earth Foundation on 26th November, 2022 .

An Add-on course on Hydroponics conducted from 15 th May 2023 to 19 th June 2023. A Lecture series for Pqst Graduation staff and students conducted at Sarojini Naidu Vanita Maha Vidyalaya on 23rd to 29th January, 2024. The department also conducted e-quiz, created and uploaded four youtube videos for students on various topics .

The department has 11 staff members of which 3 are PhDs and 1 pursuing PhD.

Offers B.Z.C.BCAN, BZAN, BBcC, BBcAN, at undergraduate level and MSc Botany at post graduation level, has 6 well equipped laboratories, museum, herbarium room, departmental library and a research laboratory. Faculty of the Department is highly motivated in organizing student activities like seminars, quizzes, 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.

Departments significance in the institution

Department of Botany

The department of Botany has been most active in educating the students with an holistic approach. The significance of department can be best understood by its

I. Highlights of the department

II. SWOC analysis of the deparytment

III. Administrative positions held by senior faculty ,

IV. Qualifications and experience of the faculty members

V. Achievements, Awards & Notable contributions of faculty members

I. Highlights of the department

***Hydroponics**

***Tissue culture**

***Research & Publications**

***Maintaining greenery of college**

***Eco-club**

*** Memorandum of Understanding**

***Consultancy**

***ICT tools used in Teaching –learning process**

***Youtube channel**

SWOC Analysis

As the strengths and opportunities of the department of Botany are significantly high as compared to weaknesses and challenges ,it sets a benchmark of being a potential department of the institution.

2. Faculty Information

Administrative Positions

2018-2020

Dr. Sarah Naheed
Head Department

2020-2022

Dr. Sarah Naheed
Vice Principal

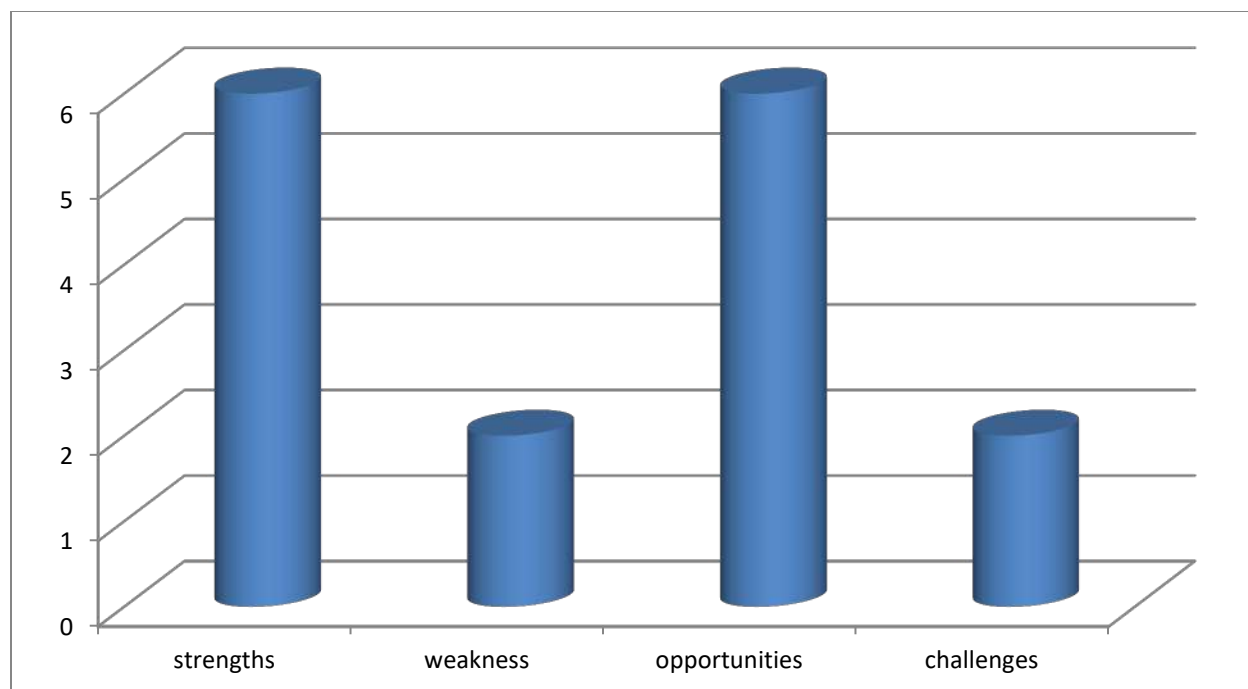
Dr T Sudha Rani
Head Department

2023-onwards

Dr. Sarah Naheed
Head Department & Director P.G Courses

SWOC Analysis

s No	Strengths	Weaknesses	Opportunities	Challenges
1	Well qualified faculty.	Application-oriented syllabus not up to the requirements.	To start certificate and diploma courses	To enhance confidence and self-reliance
2	Research oriented faculty	Employability not meeting the requirements.	Development of medicinal garden	To train students with tissue culture, horticulture, and hydroponic techniques.
3	Senior faculty in administrative posts.		Development of E-herbarium	
4	Well-equipped UG and and PG labs		Growing hydroponic plants	
5	Faculty engaged in outreach programmes		Opportunities in higher education, pursuing research and placements in different government and private sectors.	
6	Result nearly cent percent.		Opportunity to maintain cent percent results	



IV. Qualifications and experience of the faculty members

List of Staff Members

S.no	Name	Qualification	Specialization/Area of expertise	Years of experience
1.	Dr. Sarah Naheed Associate professor and HOD & P.G Director	MSc, BEd, PhD	Cytogenetics, Tissue culture	33
2.	Dr T Sudha Rani	MSc, PhD	Cytogenetics & Plant Breeding	26
3.	Dr. M. Vijay Lalitha Associate professor	MSc, PhD	Mycology and plant pathology	22
4.	Mrs Kalyani	MSc, B.Ed	Applied Botany	16
5.	Mrs Ruhiya Sultana	MSc, B.Ed	Pharmacognosy of medicinal plants and Biodiversity of Angiosperms	12
6.	Mrs Joythi	MSc, B.Ed, M.A	Pharmacognosy of medicinal plants and Biodiversity of	11

			Angiosperms	
7.	Mrs Sumalata	MSc, B.Ed	Pharmacognosy of medicinal plants and Biodiversity of Angiosperms	10
8.	Mrs N Swathi	MSc, B.Ed	Pharmacognosy of medicinal plants and Biodiversity of Angiosperms	10
9.	Mrs Shipra Jones	MSc, MBA	Biodiversity of Angiosperms	08
10.	Mrs Siraj Unissa	MSc, B.Ed	Pharmacognosy of medicinal plants and Biodiversity of Angiosperms	04
11	Ms Saniya Shagufta	MSc	Pharmacognosy of medicinal plants and Biodiversity of Angiosperms	01

S No.	Name	Designation	Experier
1	Mrs T Swaroopa	Lab Assistant	20
2	Mrs M Manikeshwari	Lab Assistant	11
3	Mr V Jangaiya	Lab Attender	30
4	Mrs M Uma Devi	Lab Attender	28
5	Mrs B Bharathi	Lab Attender	13

V. Achievements,Awards & Notable contributions

Dr Sarah Naheed

- **Best placement officer award** from Solidarity committee, Telangana
- **Best teachers award** -2010 from Solidarity committee, Telangana
- **Best teachers award**- 2011 from Solidarity committee, Telangana
- **Best teachers award**- 2012 from Solidarity committee, Telangana
- **FANOOS E AGHAI AWARD 2024 National Excellence Award**
- **NIEIA 2024 award for exemplary service and contribution to educational and social advancement**

Dr M Vijaylalita

1. Savitri Bai Phule National award by Bhahujan Sahithya Academy, in National Conference on 30th December 2018 in Delhi

2.Solidarity Best Teacher State Award

3.Global International.,**Excellence Service in Education Award**,New York ,USA 2019

4.**Excellence of Peace Human International Award from National human right council 21 st sept 2022**

Mrs N Swathi

1.Guruspandana Puraskar 2022 by Spandana EDA International foundation,Hyderabad.

Faculty development Initiative taken up by department

Faculty development Programme-The department of Botany organised a Faculty Development Programme in collaboration with Little Greens on the topic“Hydroponics”from 22-04-2022 to 09-05-2022 for all the faculty members.

Research activities-Another initiative was funding for seminars attended,organized and papers published

The department take up research activities ,the details of which are furnished below:

No.of Seminars, webinars ,workshops organised by the department-15

No.of Seminars, webinars ,workshops organised by the department from 2018-2024-8

No.of Seminars, webinars ,workshops attended by faculty of the department-175

No. Of Research papers presented-13

No. Of Research papers published-21

No. Of Research student research projects -65

No. of Books published=09

No. of Editorships=02

Faculty information:



Name of the Faculty: Dr.Mrs Sarah Naheed, Head department of Botany,Director PG courses

Qualification: MSc.,B Ed, PhD.

Years of Experience: 33

MSc Botany -1990

BEd -1991

PhD – 1994

Years of Experience: 33

International & National Awards:05

Papers & Publications: 05

Papers presented: 11

Co ordinator Scientific Research Forum ,Telangana Science Fair Academy

Editor : Souvenir Science Fair organised by Telangana Science Fair Academy

Authored books: 02

Resource Person: National conference on “Plants and Environment” organized by dept. of Botany 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 organising committee member-5

Jury member for various presentations.-

1. In science fair organised by Telangana Science Fair Academy
2. Madina college yearly Science Exhibitions

Dr Sarah Naheed

**Head department of Botany,
Director PG courses**

Qualification: MSc.,B Ed, PhD.

Years of Experience: 33

MSc Botany -1990

BEd -1991

PhD - 1994

Title of thesis-“Tissue culture and Invitro mutagenic studies in groundnut Arachis hypogaea L”

Date of joining 6th August 1991 as lecturer at Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad

Administrative responsibilities

Student Advisor for 4 years 2002,2003, 2010,2011,2012

Placement Officer 2008,2009,2010,2011,2012,2013

Head department of Botany since 2015

Co ordinators for Intermediate 2018-2020

Vice principal 2020 - 2022

Presently **Director Post graduation courses**

Co-ordinator scientific research forum TSFA since 2021

Awards-

- **Best placement officer award** from Solidarity committee, Telangana
- **Best teachers awards** -2010 from Solidarity committee, Telangana
- **Best teachers awards** 2011 from Solidarity committee, Telangana
- **Best teachers awards** 2012 from Solidarity committee, Telangana
- **FANOOS E AGHAI AWARD 2024 National Excellence Award**
- **NIEIA 2024 award for exemplary service and contribution to educational and social advancement**
- **Neo Rosary Honour 2024 for dedicated academic services by Neo Rosary Education Society**

SEMINARS/CONFERENCES/WORKSHOPS ATTENDED:

- 1.International conference on Biodiversity, environment and sustainable development 4-6 oct 1994 at S.N Vanita Maha Vidyalaya
- 2.Vanita IT Meet 2001 S.N.Vanita MahaVidyalaya, Hyderabad.
- 3.National Conference on Aerobiology,27,28 Feb2002 S.N.Vanita MahaVidyalaya, Hyderabad.
- 4.National Seminar on current trends in medicinal botany for public health in the era of Bio technology 7th -8th oct 2004 S.N. Vanita Maha Vidyalaya
- 5.State level seminar on current Trends in the Teaching of English: A Gloabal Perspective, 11-12 Dec 2006 S.N.Vanita MahaVidyalaya, Hyderabad.
- 6.II Asian Congress of Mycology and Plant Pathology, OU, HYD

- 7.National conference on recent Advanced in Recombinant Vaccines and other Health Care products 5th Jan 2008 at department of Biochemistry Aurora degree and P.G College, HYD
- 8.National conference on Modern Trends in plant taxonomy and Bio Diversity conservation for safeguarding Medical Plant Wealth 22 & 23rd Dec 2008 S.N.Vanita MahaVidyalaya, HYD
- 9.International conference on Biological Science and Engineering organized by St Ann's College & Noringthum Trent University U.K Aug 2010
- 10.National Seminar on Management Digital e-resources 19th -20th Aug 2011 S.N.Vanita MahaVidyalaya, HYD
- 11.Workshop seminar on “Current trend in Animal Biotechnology”, 8-9 Feb organised by dept. Of Zoology S.N.Vanita MahaVidyalaya, Hyd
- 12.Seminar on “Corporate Social Responsibility-An Emerging Vehicle for Business vale creation” S.N.Vanita MahaVidyalaya,Hyd
- 13.XIX APSI Scientists Meet 2010 and UGC Sponsored National conference on” Plant Biotechnology towards Nutrition & neutraceutical potential” 30Sept-1 Oct.2010 Organized by Dept of Botany S.N.Vanita MahaVidyalaya,Hyd
- 14.Workshop on “Plant Science PRACTICES” 28-10 Saifabad Science College. Hyd
- 15.Two day national workshop on Conservation of Medicinal Plants- Herbal products and their uses, 25-26th Nov2010 at Andhra Mahila Sabha College for Women,Hyd
- 16.Two Day National Workshop on plant science practicals, 28-29th Ja 2011 at Post Graduate college of science, Saifabad O.U
- 17.Two Day National Workshop on plant molecular Biology- Tools and Techniques, Agri –Biotech Foundation , 29-30th Nov 2011
- 18.World AIDS Day Seminar organized by A.P State AIDS Control Society on 1 Dec 2011
- 19.One Day workshop on Best Placement services by Directorate of Placement Services,Osmania University ,Hyderabad on 8th February ,2013

- 20.Science Academics lecture workshop on plant Taxonomy-Aims and perspective organized by the Department of Botany, O.U College for women, Koti,Hyd 2-3rd Nov 2016
- 21.International Conference on Green Trends in Environmental Sustainability held at St.Ann's College for Women, Hyderabad on 16 and 17 Dec,2016
- 22.Faculty Development Programme-on Gender Sensitization organized by Sarojini Naidu Vanita MahaVidyalaya on 28 Feb 2017
- 23.National Seminar on"Women in Science " orgnized by The Indian Science Congress Association (ISCA)Hyderabad Chapter and Department of Zoology Sarojini Naidu Vanita MahaVidyalaya on 14 November, 2017
- 24.Faculty Development Programme on Gender Sensitization organized by internal quality Assurance Cell(IQAC) at S.N.Vanita MahaVidyalaya on 14 Dec 2017
- 25.State Level Faculty Development Programme on ' Challenges of Teachers on Inspiring students' by Indian Institute of Management &Commerce Dhanwantari Institute of Science and Technology on 27 June 2018
- 26.National seminar on"Emerging trends and future prospects in chemistry " organized by Dept of Biochemistry SNVMV on 17,18 Sept. 2019
- 27.Webinar"Globalized Lockdown" -A Boon for Environmental Protection on 5th June 2020 organised by Department of Botany ,S.N.Vanita MahaVidyalaya ,Hyderabad.
- 28.Webinar "Research and Publication " on 17th June 2020 organised by Department of Botany ,S.N.Vanita MahaVidyalaya ,Hyderabad.
- Webinar "Impact of Climate change on horticulture in the present scenario" on 13th July 2020 organised by Anwar Ul-uloom college
- 27.Science Academics Virtual Lecture Workshop on on 9-10th of Dec 2020 organized by Department of Botany Telangana University ,Indian Academy of Sciences,Bangalore,Indian National Science Academy ,New Delhi, National Academy of Sciences,Allahabad

- 28. Webinar on ‘Role of Science and Technology on Development ‘ organized Don Bosco ,College ,Maram,Manipur on 4th November 2020
- 29. Webinar on Human Resource Management ,Diversity and Inclusion organized by Department of Business Management , Anwar Ull-uloom college on 31 October 2020
- 30. Webinar on ‘ Impact of Climate Change on Horticulture and Agriculture in present scenario’ organized by Department of Botany ,Anwar ull- uloom college on 13 July ,2020
- 31. Two Day National webinar on”Academic writing and research methodologies”on 7th and 8th April 2021 organised by Kasturba Gandhi Degree & PG college for women,Secunderabad.
- 32. National conference on “PLants and Environment”(virtual mode) on 5th May 2021 organised by TTWRD college and Telangana University, Nazamabad.
- 33. International webinar on “Current trends in Impact of toxicants on biodiversity and human health” on 18th June 2021, organised by National college ,Basavagudu, Bangalore
- 34. National Urdu Congress -2021 on 14th, 15th July 2021 ,organised by Maulana Azad National Urdu University, Hyderabad
- 35. Two Day National online Workshop on”Hydroponics” on 7th, 8th Sept. 2021, organised by Department of Botany, Sarojini Naidu Vanita Mahavidyalaya, Hyderabad
- 36. National Webinar on”Hybrid research-uncovering greater insights and funding agencies” on 23rd sept. 2021 ,organised by St Ann’s Degree College ,Hyderabad and St Mary’s Degree college ,Secunderabad
- 37. Science Academies virtual lecture workshop on”Protein - structure ,function and evolution ,on 23rd, 24th Feb. 2022 organised by Telangana university ,Nizamabad, sponsored by Academies of sciences
- 38. Six Day National Webinar and FDP on “Emerging trends and technologies in skill development in higher education” 21st to 26th Nov, 2022 organised by JMJ college for women ,Tenali.

- 39.National webinar on “Impact of COVID-19 on Biodiversity &UNEP’s tide turner plastic challenge”on 16th October 2023 organised by St Pious degree &PG college for women,& WWF India
- 40.Regional science fair 2021 on 13,14 Nov. .2021organised by TSFA, (online mode)
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- 41..Regional science fair 2022 on 11th Dec, .2022 at Osmania University,organised by TSFA, Hyderabad.
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- 42.Regional science fair 2023 on 25th Nov.2023 at Osmania University .2023organised by TSFA
- 43.Seminar on NIEIA honours women leaders on 10th March 2024
- 44.Seminar Fanoos e aghaai national award functional on 22nd April2022.
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- 45.Regional science fair 2023 souvenir release on 28th Feb.2024 organised by TSFA, Hyderabad.

• **Seminars conferences ,workshops &student activities organized :**
Seminar on Biodiversity conservation on 9 th July 2017 by dept. Of Botany in collaboration with Telangana State Biodiversity Board,Hyderabad.

Organised a seminar on Environmental sciences on 27th January 2019

Organised a Botanical trip to Telangana State Forest Academy ,Dullapally on 11th Feb,2020

Webinar on “Globalized Lockdown –A Boon on Environment Protection organized by Dept of Botany Sarojini Naidu Vanita MahaVidyalaya on 5 th June 2020

Webinar on “How to write a Research Paper” organized by IQAC Research Committee ,Sarojini Naidu Vanita MahaVidyalaya on 1st June 2020

Webinar on “Research methodologies organized by IQAC Research Committee ,Sarojini Naidu Vanita MahaVidyalaya on 21 st June 2020

Orientation for UG and PG students on”Botany-Avenues in jobs and higher studies “on 20thAugust,2020

Convenor for Two Day National Workshop on Hydroponics on 20,21 September 2021

Organised Science Academies Two Day Lecture Workshop on “**Progress in life sciences with emphasis on role of micro-nutrients**”on **9,10 February 2021** sponsored by the Academies of sciences,India
Papers presented

- Invitro selection of salt resistant calli in ICGS- Cultivar of ground nut in the international conference on Bio Diversity, Environment and sustainable, Develpoment 4-6th Oct 1994 S.N.Vanita MahaVidyalaya,HYD
- Biotechnological approach to develop mutants at National Seminar on current trends in Medical Botany for public health in the era of Bio Technology 7-8th Oct 2004 at S.N.Vanita MahaVidyalaya,HYD
- Biotechnology studies of Arachis hypogeal mutants at National Seminar on Current trends in Medical botany for public health in the era of BioTechnology 7-8th Oct 2004 at S.N. Vanita MahaVidyalaya
- Development of Archis hypogeal mutants with increased linolenic acid concentration at National Seminar Conference on current trends in medical botany for public health in the era of Bio Technology 7-8th Oct 2004 at S.N.Vanita MahaVidyalaya,HYD
- A review on Aloe vera and Santalum album. The potential cosmoceutical plants at UGC sponsored National Conference on “Conservation of Medical Plants-Herbal products and their uses” on

25-26th Nov 2010 at Arts and Science college for women
Andhramahila Sabha, HYD

- Dr. Sarah Naheed presented a paper titled in Vitro Regeneration response of Hypocotyl explants of ICGS-44 cultivar of Arachis hypogaea.L at a Seminar on Science & Technology for Indigenous Development of India, organized by Indian Science Congress Association,Hyd-Chapter, in association with RBVRR College,Narayanguda, Hyd from Feb22 to 24th Feb 2016.
- Dr.Sarah Naheed presented a paper titled, Development of Arachis hypogea L.Callus sustainability-ICGTES 2016, sponsored by UGC, held on 16th& 17th Dec 2016, at St. Ann’s College,Hyderabad.
- * Dr.Sarah Naheed presented a paper titled”Selection of heat stress resistant plants of Arachis hypogaeaL at National Conference on” New Horizon in research and its impact on human welfare”30,31 Oct.2018 Organised by Anwar Ul Uloom College, Hyderabad, Sponsored by Telangana State Forest Biodiversity Board.

*Dr.Sarah Naheed presented a paper titled”Raghuveeromyces – A new fungus reported from Mahadevpur forest of Telanagana”At International Urdu Science Conference at Maulana Azad National Urdu University on 4-5 March 2024

*Dr.Sarah Naheed presented a paper titled”Selection of heat resistant mutant calli of ICGS-11and ICGS-44 cultivars of groundnut –Arachis hypogaea L at International Urdu Science Conference at Maulana Azad National Urdu University on 4-5 March 2024

Papers published:

- Studies on Callusing efficiency of hypocotyls explants of ICGS-II cultivar of Arachis hypogaea L.International Journal of Ecotoxicology and Agricultural Technology-Bangladesh.ISSN 2079-794X Vol.Ino,1 95-102,2010

- Invitro Regeneration Response of Hypocotyl explants of ICGS-II cultivar of Arachis hypogaea L.international journal of Ecotoxicology and Agriculture technology-Bangladesh. .ISSN 2079-794X Vol III 95-102,2010
- Invitro regeneration response of leaflet explants of ICGS-II cultivar of Arachis hypogaea L. Advances in Plant Sciences , An International Journal of Academy of Plant Sciences ISSN 0970-3586 ,24(II)471-473,2011
Effect of heavy metals on Boerhavia diffusa and SDS –PAGE profiling of proteins,Journal of phytonanotechnology and pharmaceutical sciences2(2):15-19,2022,online:ISSN:2583-0376
- Selection of salinity resistant mutant calli of ICGS-!!and ICGS-44 cultivars of Arachis hypogaeaL in European Journal of Biotech and Biosc.-----

Resource Person:

Resource person delivered an invited talk “Plant tissue culture –A popular biotechnological tool for basic and applied scientific investigations”at National conference on “Plants and Environment”organized by dept. of Botany TTWRDC and Telangana university

Books Written & Edited Published

- Nursery and gardening SEC course for UG Published by Maulana Azad National Urdu University ,Hyderabad
- Practical Manual for BSc coursePublished by Maulana Azad National Urdu University ,Hyderabad
- Editor of Souvenir of 16th National Science Fair ,2023
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Refresher course Attended :

- Refresher course on Biotechnology 2002 ,University of Hyderabad

- Science Academies Virtual Refresher Course on Recent Advances in Web of life”organized by department of Botany ,Duchapally,Telangana

Faculty Development Programmes attended

- Faculty Development Programme-on Gender Sensitization organized by Sarojini Naidu Vanita MahaVidyalaya on 28 Feb 2017
- Faculty Development Programme on Gender Sensitization organized by internal quality Assurance Cell(IQAC) at S.N.Vanita MahaVidyalaya on 14 Dec 2017
- 25.State Level Faculty Development Programme on ‘ Challenges of Teachers on Inspiring students’ by Indian Institute of Management &Commerce Dhanwantari Institute of Science and Technology on 27 June 2018

*Two Day FDP on “Faculty an Influence” on 18,19 Dec. 2018 organised by Telangana Academy for Skill and Knowledge

*Two day FDP on “Course design development and delivery organised by S.N Vanita Maha Vidyalaya,on 26,27 Feb.2021



Name of the Faculty: Dr. T. Sudha Rani

Qualification: MSc., PhD

Years of Experience: 26

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.

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 13th to 18th 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 31st 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 15th May 2023 to 19th 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 5th and 6th 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 23rd to 29/01/2024.

Mrs. R. Kalyani

Publications:

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 29th 2021.

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.

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 13th to 18th 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 15th May 2023 to 19th June 2023.
18. Member of The Indian Botanical Society 2023.
19. Attended two day workshop on Continuous Comprehensive Evaluation conducted by Osmania University on 5th and 6th 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 23rd to 25th 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.
Attended Lecture series for PG staff and students conducted by SNVMV from 23rd to 29/01/2024.



Name of the Faculty: Dr. M. VijayaLalitha

Qualification: MSc., PhD.

Years of Experience: 18

Papers & Publications: 04

Paper presentations: 02

Awards:02

FDPs attended-03 ,

Workshops attended-03 ,

Conferences,seminars ,workshops attended 06

workshops organising member -1

Field trips organised-4

Dr M Vijaylalita

Papers & Publications: 01 International, 03 National

Paper presentations: 02

Awards: Savitri Bai Phule National award in 2018

2.Solidarity Best Teacher State Award in 2018

3. Global International award in 2019

4. Excellence of Peace Human International Award from National human right council 21 st sept 2022

Extra Activities: Attended three FDPs, three workshops, online training prog, and organized e-quiz, attended several national and international webinars.

- International Medico consultant for MBBS admissions in different universities of Philippines, Russia, Kyrgyzstan, Ukraine, Aruba, Columbus and Jamaica.
- (ACTSA) president.
- 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 .Participated in FDP on Art of Teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad.
- 3. Participated in Pure Earth Environment conference on 16/11/2019.
- 4. Participated in online training in science lab computational software organized on 8th to 13 th June 2020.
- 5. Attended International FDP (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13th to 18th Sept 2021.
- 6. Participated in pedogagy Teaching and tools on E-content development effective teaching on 5th July to 14th July 2021.
- 7. Participated in Pure Earth Environment conference on 27/11/2021.
- 8. Participated in FDP on Little Greens Hydroponics on 22-04-2022 to 09-05-2022.
- 9. Attended FDP on out come based education on 5th to 9th Dec 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. Participated in FDP on Outcome Based Education on 05-12-2022 to 09-12-2022 organized by Sarojini Naidu Vanita Maha Vidyalaya.
- BSA National coordinator.



Name of the Faculty: R. Kalyani

Qualification: MSc., B.Ed.,

Years of Experience: 16

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

Publications:

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 29th 2021.

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.

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 13th to 18th 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 15th May 2023 to 19th June 2023.
18. Member of The Indian Botanical Society 2023.
19. Attended two day workshop on Continuous Comprehensive Evaluation conducted by Osmania University on 5th and 6th 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 23rd to 25th 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.

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



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

Presentations:

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.**

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:

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.

Co- author of the book, “Invent yourself its Science,’ published with ISBN-978-93-91302-67-2, May 2021.

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.

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.

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:

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

Extra Activities:

1. Attended five FDPs, three workshops, one refresher course, attended several national and international seminars and webinars.
2. Attended FDP on Blended Teaching And Learning on 27-08-2018 to 31/08/2018 organized by Sarojini Naidu Vanita Maha Vidyalaya.
3. Department of Botany organized National Level Conference on Pure Earth Environment conference in collaboration with Pure Earth Foundation on 16/11/2019.
- 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 13th to 18th 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.



Name of the Faculty: J. Jyothi

Qualification: MSc., BEd.,

Years of Experience: 11

Papers & Publications: 2

FDPs Attended -three ,
workshopsthree , and
organized --online training prog, e-quiz
national and international webinars.attended several

Name of the Faculty: J. Jyothi

Papers & Publications: 2

1.Title: *Tinospora cordifolia A Miraculous Medicinal Plant: A Review.*
Book:Multidisciplinary Research, Volume-2 ISBN:978-93-90996-57-5.

2. Title:Miracle Tree: An Overview on Multipurpose Properties of *Moringa oleifera.*

Book: '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).

Extra Activities: Attended three FDPs, three workshops, online training prog, and organized e-quiz attended several national and international webinars.

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 .Participated in FDP on Art of Teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad.

3. Participated in Pure Earth Environment conference on 16/11/2019.

4. Participated in online training in science lab computational soft ware organized on 8th to 13 th June 2020.

5. Attended International FDP (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13th to 18th Sept 2021.

6. Participated in pedogagy Teaching and tools on E-content development effective teaching on 5th July to 14th July 2021.

7. Participated in Pure Earth Environment conference on 27/11/2021.

8. Participated in FDP on Little Greens Hydroponics on 22-04-2022 to 09-05-2022.

9. Attended FDP on out come based education on 5th to 9th Dec 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. Participated in FDP on Outcome Based Education on 05-12-2022 to 09-12-2022 organized by Sarojini Naidu Vanita Maha Vidyalaya.



Name of the Faculty: G. Sumalatha

Qualification: MSc., B.Ed.,

Years of Experience: 10

Papers & Publications: 03

Extra Activities:

FDPs Attended - 05,

Workshops attended - three ,

organized --online training prog, e-quiz

national and international webinars attended --15

Mrs Sumalata

Papers & Publications: 02

1. Published a paper entitled "Tinospora – A Miraculous Medicinal plant: A Review"

in Multidisciplinary Research, volume-2 , with ISBN: 978-93-90996-57-5 on 30/8/2021.

2. 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).

Extra Activities: Attended three FDPs, three workshops, online training prog, organized e-quiz attended several national and international webinars.

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 .Participated in FDP on Art of Teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad.

3. Participated in Pure Earth Environment conference on 16/11/2019.

4. Participated in online training in science lab computational soft ware organized on 8th to 13 th June 2020.

5. Attended International FDP (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13th to 18th Sept 2021.

6. Participated in pedogagy Teaching and tools on E-content development effective teaching on 5 th July to 14 th July 2021.

7. Participated in Pure Earth Environment conference on 27/11/2021.

8. Participated in FDP on Little Greens Hydroponics on 22-04-2022 to 09-05-2022.

9. Attended FDP on out come based education on 5 th to 9 th Dec 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. Participated in FDP on Outcome Based Education on 05-12-2022 to 09-12-2022 organized by Sarojini Naidu Vanita Maha Vidyalaya.



Name of the Faculty: N. Swathi

Qualification: MSc., BEd.

Years of Experience: 10

Awards:Guru Spandana Puraskar-2022

Papers & Publications: 02

FDP Attended -05

Organised- one e-quiz,

Created and uploaded four youtube videos for UG students on various topics,

several national and international webinars attended-several two day teacher training programme attended 01

Name of the Faculty: N. Swathi

Papers & publications: 1. Done paper publication (Topic: Characterisation & Ethno medical knowledge of plants of medicinal plants) in International Journal in the Month of July 2021.

2. Published a research paper entitled Assessment of pollution in Foxsagar Lake, Jeedimetla, in International Journal of Scientific Research in chemistry in the month of August 2021.

Extra Activities: Attended one FDP, conducted one e-quiz, created and uploaded four youtube videos for UG students on various topics, attended several national and international webinars, attended two day teacher training prog.

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 .Participated in FDP on Art of Teaching on 23-09-2019 to 27-09-2019 organized by Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad.
3. Participated in Pure Earth Environment conference on 16/11/2019.
4. Participated in online training in science lab computational soft ware organized on 8th to 13 th June 2020.
5. Attended International FDP (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13th to 18th Sept 2021.
6. Participated in pedogagy Teaching and tools on E-content development effective teaching on 5th July to 14th July 2021.
7. Participated in Pure Earth Environment conference on 27/11/2021.
8. Participated in FDP on Little Greens Hydroponics on 22-04-2022 to 09-05-2022.
9. Attended FDP on out come based education on 5th to 9th Dec 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. Participated in FDP on Outcome Based Education on 05-12-2022 to 09-12-2022 organized by Sarojini Naidu Vanita Maha Vidyalaya.

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Name of the Faculty: D. Shiphra Jones

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

Years of Experience: 07

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

ResourcePerson:

For Vanadarsini Prog conducted by Forest Department of Telangana on 23rd Feb 2023.

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.

Mrs. D. Shiphra Jones

Resource Person:

For Vanadarsini Prog conducted by Forest Department of Telangana on 23rd Feb 2023.

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:

Arbuscular mycorrhizal colonization in plant species of family Polygonaceae(2015)

Association of Arbuscular Mycorrhizal Fungi in some medicinal plants of Rutaceae and Apiaceae from Telangana State, India(April 2018)

Occurrence of Arbuscular Mycorrhizal Fungi in certain members of Polygonaceae from Telengana State India (Dec 2019).

Multiplication of Arbuscular Mycorrhizal Fungi on Two susceptible Host Plants, Sorghum vulgare and Eleusine coracana (July 2021).

Open Access Journals- Need of the Hour (Aug 2021).

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 12th 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 26th and 27th 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 22nd to 24th 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 28th February 2017.
5. Participated in one day Seminar on Women in Science held on 14th 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 2nd 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 19th July 2019.
8. Participated in two day Biochemistry Symposium BCS 2K19 on Emerging Trends and Future Prospects in Biochemistry, conducted on September 1st and 18th 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 16th 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 15th-28th of March 2021.
12. Attended International Faculty Development Prog (Virtual) on Recent Trends in Transforming Life Sciences Focus on Academic and Industry Symbiosis 13th to 18th Sept 2021.

13. Attended a conference of Pure Earth Environment Conference 2021 organized by Pure Earth Foundation in virtual mode from Hyderabad on 27th 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 22nd April to 9th May 2022.
15. Participated in 7th 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 5th and 6th 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 5th and 6th 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 23rd to 25th 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 7th to 9th, 2024.



Name of the Faculty: Sirajunnisa

Qualification: MSc., BEd.,

No of conferences attended: 02

No of FDPs attended: 02

Workshops attended: 01

Resource person: 01

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 05-12-2022 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.



Name of the Faculty: Saniya Shagufta

Qualification: MSc.,

Years of Experience: 01

Working on maternity leave vacancy

S No	Name of the Faculty	Co-ordinator/Convener/Resource Person	Organized Conferences/Add-on	Organized workshops
1	Dr Sarah Naheed	Co-ordinator, Convener Resource person	09/07/18, 27/01/2019, 11/02/2020 05/06/2020 01/06/2020 20/08/2020 9,10 /02/2021 20,21 /09/2021 22/07/2022 ,	07 02 02 Total 11 activities
2	Dr. T. Sudha Rani	Convener Resource Person	04/01	03
3	R. Kalyani	Convener	04-Add-on	02
4	D. Shiphra Jones	Resource Person	02	
5	Siraj unnisa	Resource Person		01

3. Academic Programmes Offered :

Programmes offered-B.Sc and M.Sc

Courses offered-B.Sc –B.Z.C,BZAN,BCAN,BBcC,BBcAN

Specialization –Horticulture

MSc-Specialization ----

. Time table and work load
BSC TIME TABLE FOR THE YEAR -2023-2024
SEMESTERS-I, II, III, IV, V, VI

<i>PERIODS/DAY</i>	<i>SEM</i>	10.00-10.50 1	10.50-11.40 2	11.40-12.30 3	12.30-1.20 4		1.50-2.40 5	2.40-3.30 6	3.30-4.20 7
<i>MONDAY</i>	I/II		C+D/ B.SC .I YEAR PRCTICALS (SU+SW)					B-4 C+D 208	
	III/V	B-207- C+D 213				L	C+D/ B.SC .II YEAR PRCTICALS [VL]		
	V/VI	B-219 C+D 208	C-222-SA	B-245 -VL					
<i>TUESDAY</i>	I/II								
	III/V				B-207 C+D 245	U			
	V/VI		B-207 C+D 208						
<i>WEDNESDAY</i>	I/II						B-3 C+D-4	AECC-I	
	III/V			B-218- C+D219		N			
	V/VI						B-218 C+D 219	AECC-I	
<i>THURSDAY</i>	I/II	B-217 C+D 213	B/ B.SC .I YEAR PRCTICALS (SU+SW)						
	III/V		B-SEC			C			
	V/VI		B-212 C+D 208				C/ B.SC .III YEAR PRCTICALS [SR ,VL]		
	I/II						B-212 C+D-3		

FRIDAY	III/I V	B-213 C+D-208	B-SEC			H	B/ B.SC .II YEAR PRCTICALS (SU+SW)		
	V/VI				B-6 C+D-208		B-2453- VL		
SATURDAY	I/II			BA-I AECC			C+D- 212	C+D- 6	
	III/I V		B- 3 C+D- 212	B-3 C+D -212			B-SEC		
	V/VI		C/ B.SC .III YEAR PRCTICALS [VL]						

Distribution of workload

B. Sc., III Theory 8 + practical - 23 per Sem

Generic Elective/Optional- 4 theory per sem

B.Sc., II Theory 8 + practical - 23 per Sem

SEC II/IV Theory --2 theory per sem

B.Sc., I Theory 8 + practical - 23per Sem

AECC-Theory--6 theory per sem

Total workload 92 Credits

Number of hours per Lectures 20 hrs/week

UG student strength 2018-2019

S.N O	COURSE S	STRENGTH OF STUDENTS		
		B.SC I Yr	B.SC II Yr	B.SC III YR
1.	BSC			
	BZC	110	117	80
	BMC	27	28	23
	TOTAL	137	145	103

Total students=285

COURSES OFFERED

2019-2020

S.N O	COURSE S	STRENGTH OF STUDENTS		
		B.SC I Yr	B.SC II Yr	B.SC III YR
	BSC			
	BZC	98	100	117
	BMC	33	27	28
	TOTAL	131	127	145

Total students=393

COURSES OFFERED
2020-2021

S.NO	COURSES	STRENGTH OF STUDENTS		
	BSC	B.SC I Yr	B.SC II Yr	B.SC III YR
1	BZC	50	98	100
2	B.M.C	-	33	27
3	B.Z.AN	23	-	-
4	B.C.AN	07	-	-
5	B.BC.AN	05	-	-
6	B.BC.C	02	-	-
	TOTAL	87	131	127

Total students=345

COURSES OFFERED
2021-2022

S.NO	COURSE S	STRENGTH OF STUDENTS		
		B.SC I Yr	B.SC II Yr	B.SC III YR
	BSC			
1	B.Z.C	48	50	85
2	B.M.C	-	-	30
3	B.Z.AN	27	23	-
4	B.C.AN	19	07	-
5	B.BC.AN	10	05	-
6	B.BC.C	-	02	-
	TOTAL	104	87	115

Total students=299

2022-2023

S.NO	COURSES	STRENGTH OF STUDENTS		
		B.SC I Yr	B.SC II Yr	B.SC III YR
1	B.Z.C	36	40	47
2	B.Z.AN	40	25	23
3	B.C.AN	14	20	07
4	B.BC.AN	21	10	05
5	B.BC.C	02	-	01
	TOTAL	113	95	83

Total students=291

2023-2024

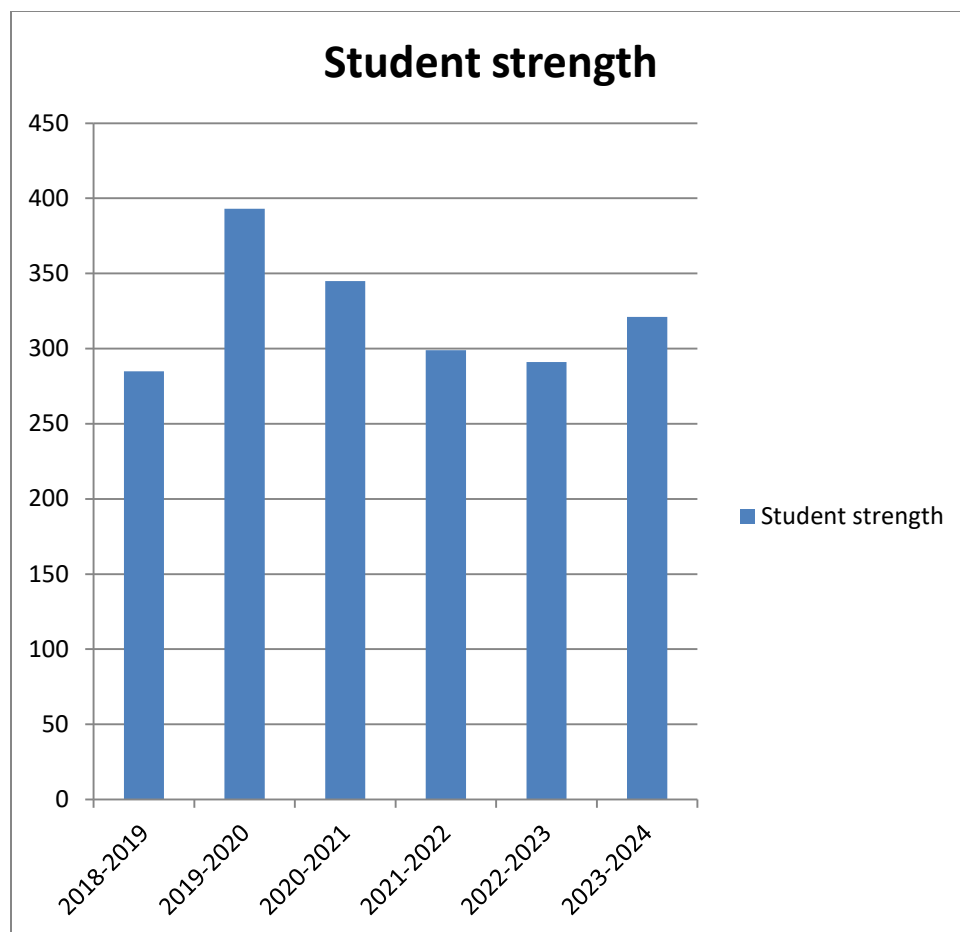
S.NO	COURSES	STRENGTH OF STUDENTS		
		B.SC I Yr	B.SC II Yr	B.SC III YR
1	B.Z.C		36	40

2	B.Z.AN		40	25
3	B.C.AN		14	20
4	B.BC.AN		21	10
5	B.BC.C		02	-
	TOTAL	113	113	95

Total students=321

BSc Student Strength:

YEAR	NUMBER ADMITTED
2018-2019	285
2019-2020	393
2020-2021	345
2021-2022	299
2022-2023	291
2023-2024	321



4. Infra structure and facilities:

Departmental facilities:

S no	Name of facility	No.	Comments
1.	Classrooms	6	As per requirement
2.	Laboratories	2	
3.	Libraries	2	General library and dept seminar
4.	Herbarium room	1	Plant preserved as per syllabus
5.	Botanical garden	1	Quadrant in front of department
6.	Hydroponic unit	1	In hostel premises
7.	Museum	1	Specimens, slides, models as per syllabus

8.	Research lab	1	With equipment
9.	ICT classroom	3	Adjacent to labs, Room no.1,3

Specialized Equipment:

The research lab is equipped with:

1. Laminar air flow chamber
2. Hot air oven-3
3. BOD incubator-2
4. Autoclave -2
5. Hydroponic unit 1
6. Soxhlet apparatus3
7. Camera lucida-1
8. UV chamber 1
9. Microtome unit-1

DETAILS OF FURNITURE IN THE DEPARTMENT AND LABS

B.Sc., Lab I,II

S.NO	PARTICULARS	QTY
1.	Big table (wooden)	17
	Small size table (wooden)	02
3.	Stools	60
4.	Wooden Chairs	03
5.	Glass Almirah(wooden)	02
6.	Iron Lockers	02
7,	LCD projector	01

B.Sc., III,IV Lab

S.NO	PARTICULARS	QTY
1.	Big table (wooden)	8
2.	Small size tables (wooden)	02
3.	Iron Almira	01
4.	Stools	50
5.	Wooden Chairs	03
6.	Big Almira (wooden)	02
7.	Hot air ovens	02
8.	Autoclave	01

Store Room

S.NO	PARTICULARS	QTY
1.	chairs	4
2	tables	2
3	Wooden almira	3
4	Steel almira	1
5.	Wooden chart stand	1

Museum

S.NO	PARTICULARS	QTY
1.	Big table (wooden)	02
2.	Plastic tables	02
3.	Plastic chairs	8
4.	Wooden Chairs	03
5.	Glass Almirah(wooden)	14
6.	Iron Lockers	01
7.	Steel Almirah	04

Herbarium room

S.NO	PARTICULARS	QTY
1.	Big Almirah (wooden)	02
2.	Herbarium Rack	01

NUMBER OF UG LABS WITH DESCRIPTION (titles)

1,Bsc lab I,II

2. BSc lab III,IV

3. Research lab

4. Store room

5. Herbarium Room

6. Museum

7. NUMBER OF LCD'S in the DEPARTMENT

1.BSc lab 1,2 LCD' is available

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 _H meter with combined electrode	1
10.	P _H 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 _H meter	1
19.	Soxhlet Extraction Apparatus	1

UG Store Room

LIST OF CHARTS – NEW

S.NO	CHART NO	NAME OF THE CHART
1.	Bi-52	Chromosomal Aberrations
2.	Bi-126	Cytoplasmic Inheritance
3.	Bi-2	Integration of carbohydrate Fatty Acid & amino Acid
4.	Bi-147	Epistatic Interaction
5.	Bi-63	Xerosere
6.	Bi-64	Hydrosere
7.	Bi-67	Electrophoresis
8.	Bi-84	Nucleotides & Biosynthesis
9.	Bi-129	Recombinant DNA & Cloning
10.	Bi-133	Cloning and Vectors
11.	Bi-140	Polymerase chain Reaction
12.	Bi-146	Blotting techniques for nucleic acid
13.	Bi-148	Micropropagation of plant
14.	Bi-156	Transposons
15.	Bi-163	DNA viral Replication
16.	C-11	Tertiary & Quarter
17.	B-232	Mucor ; life cycle
18.	B-236	Alternaria
19.	B-113	Androecium ; Fixation Dehiscence and union
20.	B-174	Leaf modifications
21.	B-179	Leaf; shapes; Margins

22.	B-180	Phyllotaxy and venation
23.	B-181	Types of leaves and kinds of stipules
24.	B-183	Vegetative propagation
25.	B-229	Endosperm ; Types
26.	B-97	Capparidaceae
27.	B-104	Amaranthaceae (Achyranthus aspera)
28.	B-240	Umbelliferae
29.	B-240	Umbelliferae Coriandrum

CHART NO	NAME OF THE CHART
1.	Protein synthesis
2.	Fabaceae
3.	Liliaceae
4.	Caparridaceae
5.	DNA replication
6.	T.S of Dicot root
7.	T.S of Dicot stem
8.	T.S of monocot root
9.	T.S of monocot stem
10.	T.S of dicot leaf
11.	T.S of monocot leaf
12.	Amaranthaceae
13.	Plasmembrane

UG Museum

ALGAE

S.NO	NAME OF THE SPECIMENS
1.	Chara
2.	Ulva
3.	Codium
4.	Corollina
5.	Sargassum

FUNGI

S.NO	NAME OF THE SPECIMENS
1.	Polyporus
2.	Usnea
3.	Parmelia
4.	Cladonia
5.	Agaricus
6.	Lichens

BRYOPHYTES

S.NO	NAME OF THE SPECIMENS
1.	Polytrichum
2.	Marchantia (model)
3.	Marchantia (glass)
4.	Funaria Antheridiophore (model)
5.	Funaria Archegeniophore (model)
6.	Marchantia Gemma (model)
7.	Anthoceros
8.	Porella fertile (glass)
9.	Marchantia Archegoniofor

PTERIDOPHYTES

S.NO	NAME OF THE SPECIMENS
1.	Lycopodium
2.	Selaginella
3.	Adiantum
4.	Isoetes
5.	Fern leaf
6.	Taxus leaf
7.	Equisetum cone
8.	Pteris
9.	Polytrichum plant with capsule
10.	Equisetum plant

GYMNOSPERMS

S.NO	NAME OF THE SPECIMENS
1.	Cycas corolloid Root
2.	Cycas megasporophyll

3.	Cycas male cone
4.	Cycas megasporophyll (model)
5.	Cycas microsporophyll (model)
6.	Cycas L.Sof ovule
7.	Gnetum male cone
8.	Gnetum Female cone
9.	Gnetum wood
10.	Pinus needle
11.	Pinus seedling
12.	Ginkgo (biloba)
13.	Thuja
14.	Abies with cone
15.	Abies plant
16.	Araucaria
17.	Pinus male cone (model)
18.	Pinus female cone (model)
19.	Germination of pinus seed (model)
20.	Development of microspore male gametophyte
21.	Cycas Root T.S (Model)
22.	Cycas stem T.S (Model)
23.	Cycas corolloid Root
S.NO	NAME OF THE SPECIMENS
	ANATOMY
1.	T.S of monocot root (model)
2.	T.S of Dicot Root (model)

3.	T.S.of monocot stem (model)
4.	T.S of Dicot stem (model)
	CYTOLOGY
S.NO	NAME OF THE SPECIMENS
1.	Meiosis – 1 (model)
2.	Meiosis – 2 (model)
3.	Meiosis – 5 (model)
4.	Meiosis – 9 (model)
5.	Meiosis – 6 (model)
6.	Meiosis – 7 (model)
7.	Meiosis – 10 (model)
8.	Mitosis- 1 (model)
9.	Mitosis-2 (model)
10.	Mitosis-7 (model)
11.	Mitosis-5 (model)
12.	Mitosis-8 (model)
13.	Mitosis-9 (model)
14.	Mitosis-10 (model)
	PLACENTATIONS
S.NO	NAME OF THE SPECIMENS
1.	Parietal
2.	Superficial

3.	Basal
4.	Free central
5.	Axile
	EMBRYOLOGY
	Types of ovules ; Models
1.	a. Orthotropus ovule
	b. Anatropus ovule
	c. Campylotropus ovule
2.	L.S of ovary showing fertilization
3.	Development of Monocot embryo
4.	Development of Dicot embryo



DEPARTMENT OF
BOTANY

GPS Map Camera

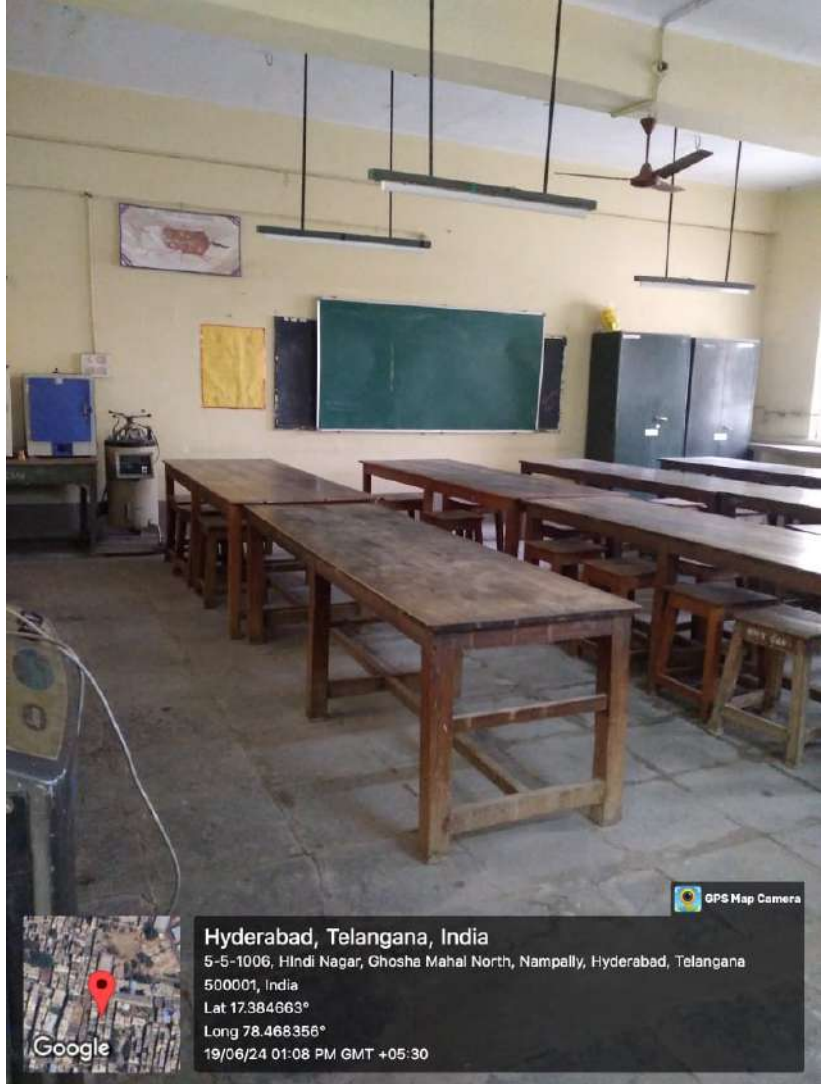


Hyderabad, Telangana, India
5-5-964, Street Number 7, Hindi Nagar, Ghosha Mahal North, Nampally, Hyderabad,
Telangana 500001, India
Lat 17.384557°
Long 78.468452°
19/06/24 01:05 PM GMT +05:30



Botany Research Lab- Microtome ,Sohxlet apparatus,BOD cabinet Laminar Air Flow Chamber







Slides Cabinet



Glass cabinets for specimens

Store Room



Charts Rack



Charts Cabinets

Purchase details
SAROJINI NAIDU VANITA MAHA VIDYALAYA
BOTANY DEPARTMENT (U.G)
EXPENDATURE DETAILS OF LABS

S.NO	YEAR	RECURRING	NON - RECURRING	TOTAL AMOUNT RS
1.	2018-19	21,884/-	8,185/-	38,069/-
2.	2019-20	-	12,232/-	12,232/-
3.	2020-21	-	-	-
4.	2021-22	2448/-	6,455/-	8903/-
5.	2022-23	8,700/-	7,104/-	15,804/-

5.Student Support Services:

Mentorship Reports

UG 2019-22 Batch and 2020-23 Batch

Mentor: Dr. M Vijaylalita

Mentor report **2019-2022**

BSc., BZAN I year (I,II semester) students with hall ticket nos 1175-19-601-001 to 031 have been allotted. Roll Nos has not reported in the ---- Sem.

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.

Two meetings were conducted in the semester, i.e on 16/3/24 for the first time and 10/5/24 second meeting

Two meetings were conducted in the semester, on 16/3/24 for the first time and 10/5/24 second meeting

Dr.M.Vijaya Lalitha

We the department of Botany in close consultation with the IQAC of Sarojini Naidu Vanitha Mahavidyalaya conduct a divers set of activities to enhance the all round development of our students.

Mentoring programme :

To build healthy relationships between students and Teachers

To develop and maintain a perspective on career options and opportunities.

Firstly the students of each batch divided into groups and a mentor is assigned to each group further faculty mentor will provide guidance to the mentees

Based on the classification various activities are designed to assist the particular students to learn un learn and re learn.

The objectives achieved by the department of Botany through the mentoring system include.

To enhance knowledge and awareness regarding environmental issues.

To make the students more professionally competent by enhancing strengths and helping overcome their weaknesses.

The students are also provided with opportunities to have their creative abilities as poster and model making competition and Quiz competitions are held at department level.

Success of evidence for the mentoring practice includes better results in the examinations more regular attendance better discipline on college campus and minimized student drop out rates.

Mentor-Mrs Sumalata

Mentor report 2020-2023

BSc., ZCAN year (IVsemester) students with hall ticket nos 1175-22 484-001to 1175-22-484-025 have been allotted.

Two meetings were conducted in the semester, on 16/3/24for the first time and10/5/24 second meeting

1. Delay to attend classes because of transport issues with state run buses.

Suggestion:Advised to start earlier so that they can reach in time

2. Some student suffering with health issues due to which they is absent to college

Suggestion:Advised medicinal checkup so that they gets well soon

3. Students grievance was that the academic syllabus is too lengthy.

Suggestion:Provided tips and ideas so study “smart” rather than getting confused

4. Request for skill enhancement training

Suggestion:Advised them to join hydroponics workshop planned to be organized by the department

- 5.How to prepare for the exams

Suggestion:Regular study of topics taught in college and completion of assignments

- 6.Lack of self-confidence and non communicative.

Suggestion:Communication with friends by explaining subject topics and general issues gives self-confidence and improves communication skills.

7.Family issues reason for not attending the classes regularly.

Suggestion:Making some kind of arrangement and understanding withfamily members .

8. Health problems.

Suggestion:Taking nutritive food and balanced diet,beside a regular medical check up.

10..PGCET preparation.

Suggestion:Continuous preparation for the PGCET as per UG syllabus

BSc., BCAN year (IVsemester) students with hall ticket nos 1175-22-588-001 to 1175-22-588-014 have been allotted.

1..Students asked for washroom , corridor and classroom cleaning

Suggestion:They waere asked to use flush in washroom and maintain cleanliness in corridors and classrooms

2.Delay to attend classes because of transport issues with state run buses.

Suggestion:Advised to start earlier so that they can reach in time

3.One student by name-Ravali suffering with health issues due to which she is absent since a month

Suggestion:Advised medicinal checkup so that she gets well soon.

4.Academic syllabus is too lengthy.

Suggestion:Provided tips and ideas so study “smart” rather than getting confused

5.Request for skill enhancement training

Suggestion:Advised them to join hydroponics workshop planned to be organized by the department

ECO-CLUB

Dr T Sudha Rani, faculty member of Botany department is incharge of Eco-club

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 18th 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 20th 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 Mandeville (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.

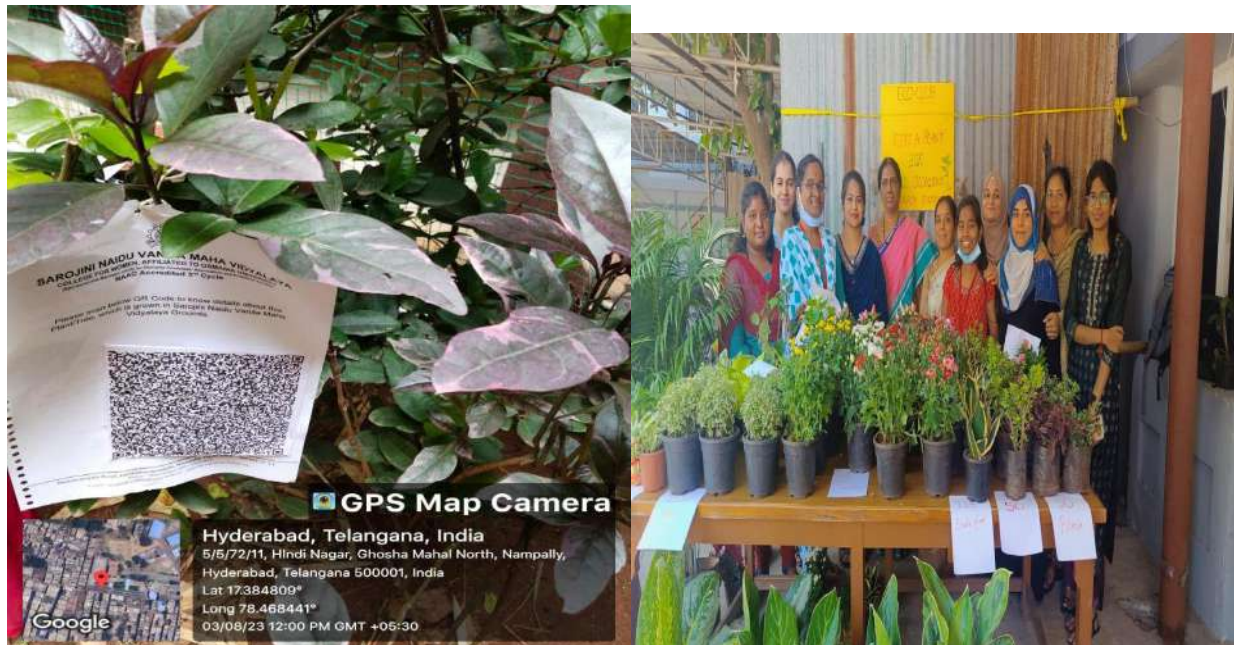
With the concept of gifting a plant Ecoclub organized plant sale counter on Alumnae day on 23rd Dec 2023.

On 29th Dec students of MSc., Botany adopted various plants to increase the greenery of their surroundings.

Adapt a plant



Plantnet identification of plants QR codes



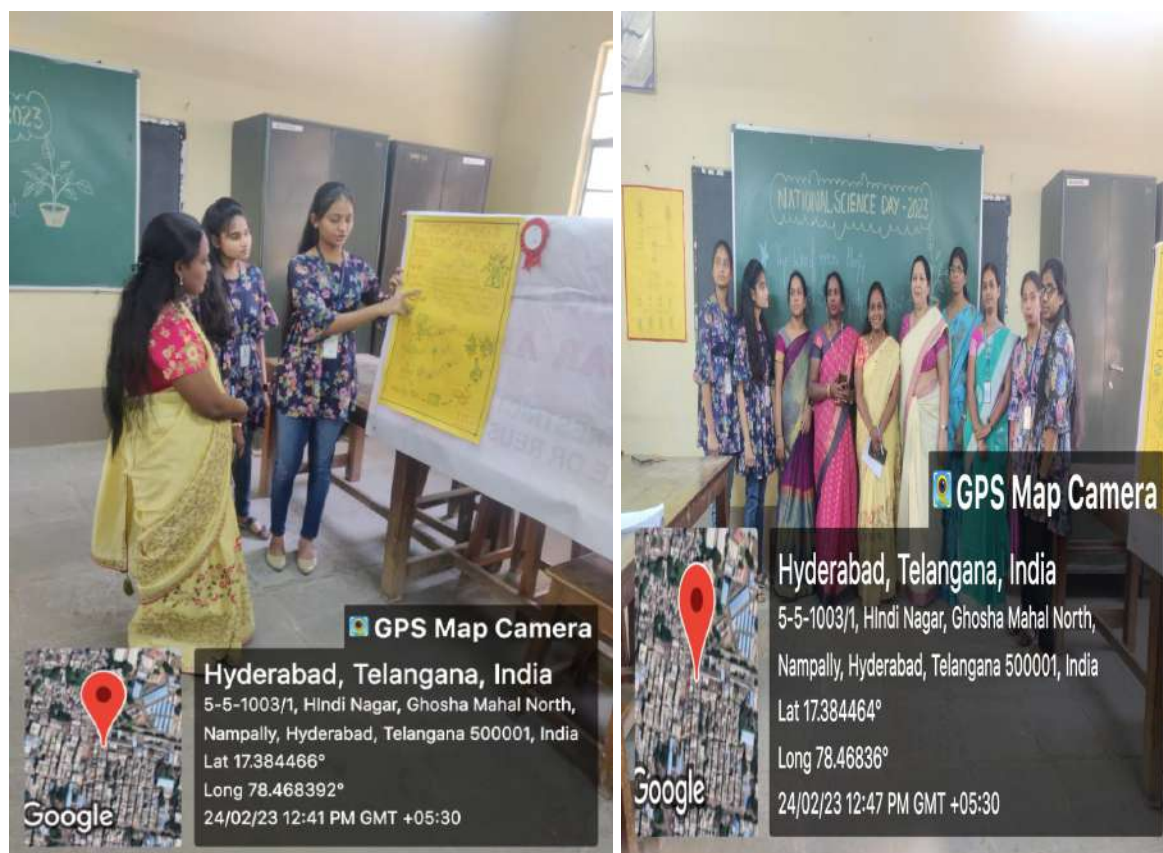
b) Students Projects: The student projects were given by Mrs Sumalata and Mrs Swathi for the science exhibition

S No	Title Of The Project	Student Name	Guided By
1	Photosynthesis	Swapna,R Sravani,N Krishnasree.	G Sumalatha
2	Intigrated Farming System	Hibafathima.	N Swathi
3	Seed Germination	Ashritha,Pallavi,Srinidhi.	G Sumalatha
4	Chloroplast	Hina ashraf,Maryam	N Swathi
5	Green House	P Akshaya,Hibafathima.	N Swathi
6	Ecological Pyramids	Harshini,Rupasi.	G Sumalatha
7	Fluid Mosaic Model	Rajeshwari, G Bindu,L Ramya.	N Swathi
8	Angiosperm Life cycle	Devika, Nandani.	G Sumalatha
9	Mitochondria	L Ramya, Aakanksha.	N Swathi
10	Drip Irrigation	Blessi, Aarthi,Umamaheswari.	N Swathi
11	Nitrogen Cycle	Renusri, Uma.	G Sumalatha
12	Plant Cell	Sangamithra,Pravallika.	N Swathi
13	Parts Of Plant	Arshiya Ruhi, Abu Hamza, Asha.	G Sumalatha
14	Seed Germination	Asha, Vyshnavi Reddy.	N Swathi
15	Biodivercity	Nitya Ananya, Varshini.	N Swathi
16	Pollination Stages	Keerthana.	G Sumalatha
17	Anatomy Of Flower	Divya Reddy, Sreeja Chowdary.	N Swathi
18	Mitochondria	Madhulatha,Sai Pranathi,Manichandana.	N Swathi
19	Kinds Of Placentation	Vidya Sri, Karuna.	G Sumalatha
20	Plant Diseases	Pavani,Deepthi,Akhila.	G Sumalatha
21	Plant Cell	Shivani, Harshita,Aishwarya	N Swathi
22	Photosynthesis	Srilatha, Roja, Kaveri.	G Sumalatha
23	Life Cycle Of Chara	Bibi Ameena, Anitha Modi.	G Sumalatha
24	Pollination in Angeosperms	Pooja,Noushin.	N Swathi
25	Types Of Ovule	M Sangeetha,M Bhagya Lakshmi.	G Sumalatha
26	Seed Germination	K Poojitha, M Ankitha.	N Swathi
27	Types Of Plant Tissues	Alekhya, Rakshita,Lavanya.	G Sumalatha

Science Exhibition at Sarojini Naidu Vanita Maha Vidyalaya 2023-24



c) Students Seminars



National Science Day 2022

d)Botanicaltours:

Telangana Forest Academy,Dollapally in 2019-20



Botanical Tour to Vikharabad in 2022-23



Botanical tour to Telangana Forest Academy, Dollapally in 2023-24



Guidance for higher education

Sno	Name of student	Course studying	Institution
1	E Deepika	MSc org chem	Telangana Mahila Vishwa vidhyalaya ,Koti,Hyd
2	P Gnana Deepika	MSc org chem	Govt degree and PG college,Begumpet
3	Fariha Fatima	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
4	J Sukruthi	MSc Bot	Govt degree and PG college,Begumpet
5	N Usha Sri	Clinical SAS	JNTU,Hyd
6	B Shruthi	MSc org chem	Sarojini Naidu Vanita Maha Vidyalaya Hyd
7	Ks Taisindrani Devi	MSc Biotech	PG college of science ,Saifabad,Hyd
8	J Sukruthi	Clinical SAS	JNTU,Hyd
9	S Anusha	MSc Org Chem	Loyala college,Hyd
10	T Tejasri	BEd	Parineeya college of Education,Chaitanyapuri
11	Y Poojita	MSc Micro	Jhanvi Degree and PG college,Hyd
12	P Deepika	MSc org chem	Govt degree and PG college,Begumpet
13	CH Manisha	BEd	David memorial college of

			education for women,Hyd
14	M Divya	Medical coding	Hyderabad
15	G Sai Sri	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
16	S Anusha	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
17	K Sushmita	MSc Biotech	PG college of science ,Saifabad,Hyd
18	G Aishwariya	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
19	P Prathyusha	BEd	Brindavan school of teacher education,Ibrahimpatnum
20	P Navya Sri	MSc Micro	Avanthi degree and PG college ,Narayanguda,Hyd
21	R Jhansi Rathod	MSc Org Chem	Keshav Memorial institute of commerce and sciences,Narayanguda,Hyd
22	V Surabhi	MSc Org Chem	Loyala college,Hyd
23	M Sreeja	M A Eng	Arts college,Osmania university,Hyd
24	Ishrat Begum	MSc Nutr.&Dietics	Sarojini Naidu Vanita Maha Vidyalaya Hyd
25	B Harshita	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
26	Afiya Sultana	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
27	G Anusha	BEd	GIASE, Masabtank,Hyd

28	Ananta laxmi	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
29	G Nissi	Medical coder	Optum,Hyd
30	Sadia Unnissa	MSc Micro	Avanthi degree and PG college ,Narayanguda,Hyd
31	G Triveni	MSc Org Chem	Sarojini Naidu Vanita Maha Vidyalaya Hyd
32	Sindrani Devi	MSc Org Chem	Sarojini Naidu Vanita Maha Vidyalaya Hyd
33	G Aishwariya	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
34	P Malvika	MSc Micro	Bhavans Vivekananda college,Sainikpuri,Hyd
35	P Chandana	,Hospital management course	Nizams Institute of Medical sciences, Punjagutta,Hyd
36	T Hansika Varshini	MSC Micro	Sidharta degree and PG college
37	Sara Fatima	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
38	K Sunita	MSc Biotech	PG college of science ,Saifabad,Hyd
39	J Surekha	MSc Chem	Telangana Mahila Vishwa vidhyalaya ,Koti,Hyd
40	Sai Vani	MSc Micro	Bhavans Vivekananda college,Sainikpuri,Hyd
41	G Poonam	MSc Micro	Avanthi degree and PG college ,Narayanguda,Hyd

42	E Srivani	MSc Botany	Sarojini Naidu Vanita Maha Vidyalaya Hyd
43	S Shruthi	MSc Chem	St Pious degree and PG college ,Narayanguda,Hyd
44	A Radhika	MSC Micro	Sidharta degree and PG college
45	G Poonam	MSc Micro	Bhavans Vivekananda college,Sainikpuri,Hyd
46	Pavani	MSc Micro	Avanthi degree and PG college ,Narayanguda,Hyd
47	Salma Fatima	MSc Micro	Avanthi degree and PG college ,Narayanguda,Hyd
48	Rama E	MSc Org Chem	Sarojini Naidu Vanita Maha Vidyalaya Hyd
49	Vaishali	MSc Org Chem	Sarojini Naidu Vanita Maha Vidyalaya Hyd
50	A Indumati	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd
51	M Rekha	MSc Micro	Bhavans Vivekananda college,Sainikpuri,Hyd
52	CH Lochna	,Hospital management course	Nizams Institute of Medical sciences, Punjagutta,Hyd
53	Y Manisha	MSC Micro	Sidharta degree and PG college
54	GMonika	MSc Zoo	Sarojini Naidu Vanita Maha Vidyalaya Hyd

Placements & Job opportunities

Sno	Name of student	Occupation	Employer
1	Shravani	Job	Accenture,Hyd
2	Arthi Thakur	Job	Accenture,Hyd
3	D Anjali	Job	Haelius pathology,Hyd
4	Sana Begum	Job	Sai Ram group of schools,Hyd
5	V Akitha	Job	Apollo pharmacy,Budvel
6	G Poornima	Job	Genpact,Hyd
7	Salma Fatima	Teacher	MS creative school,Mehdipatnum,Hyd
8	Rama E	job	Corporate sector
9	Vaishali	job	Corporate sector
10	A Indumati	Teacher	Birla Open Mind,HYd
11	M Rekha	Job	Genpact,Hyd
12	CH Lavanya	Job	Appollo Pharmacy,Hyd
13	Y Manisha	Teacher	Gowtham Model school,Mehdipatnum,Hyd
14	GMonika	Job	Genpact,Hyd
15	Sadia Unnissa	Teacher	MS creative school,Asifnagar ,Hyd

16	G Triveni	job	Corporate sector
17	Sindrani Devi	job	Corporate sector
18	G Aishwariya	job	Corporate sector
19	P Malvika	job	Corporate sector
20	P Chandana	Job	Accenture,Hyd
21	T Hansika Varshini	Job	Accenture,Hyd
22	Sara Fatima	Job	Haelius pathology,Hyd
23	K Sunita	Job	Sai Ram group of schools,Hyd
24	J Surekha	Job	Apollo pharmacy,Budvel
25	Sai Vani	Job	Genpact,Hyd
26	E Srivani	Teacher	MS creative school,Mehdipatnum,Hyd

SLOW-LEARNERS: 2018-2021

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.

UG -SLOW LEARNERS SUBJECT-BOTANY 2018-2021 Batch

S.NO	GROUP	Number of slow learners
1.	B.Z.C	12
2.	B.M.C	04

Slow Learners 2019-22 Batch

S.NO	GROUP	Number of slow learners
1.	B.Z.C	11
2.	BZAN	04
3.	BBcAN	05

Slow Learners 2020-23 Batch

S.NO	GROUP	Number of slow learners
1.	B.Z.C	13
2.	BZAN	03
3.	BCAN	04
4.	BBcAN	01

Couselling slow learners
2018-2021 Batch

Nikitha : Health issues.

Parveen Jahan: Irregular, family responsibilities, and language problem.

Sahithi: Personal issues: Counselling and suggested her to handle her situations.

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

2019-2022

M Kaveri : Irregular : Counselling

V Anuradha : Irregular : Counselling

K Joytsna : Irregular : Counselling

2020-2023

D Pavani : Irregular and language problem: Counselling

G Madhulata : Detained: Counselling

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

Qamar Unnissa Begum: After Covid health issues: She couldn't perform well because of her health issues as she had trouble recovering from after effects of Covid.

S Sarika : Language problem: Counselling and guided

Mariyuyam Siddiqua: Language problem: Counselling

D Razein: 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.

**ADVANCED LEARNERS
SUB-BOTANY- 2018-2021**

INITIATIVES FOR ADVANCED AND SLOW LEARNERS:

The advanced learners, were provided with material that helps critical thinking, visualizing 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 of innovation and research.

Advanced learners 2018-2021

S.NO	GROUP	Number of slow learners
1.	B.Z.C	54
2.	B.M.C	14

Advance Learners 2019-22 Batch

S.NO	GROUP	Number of advance learners
1.	B.Z.C	30
2.	BZAN	10
3.	BBcAN	2

Advance Learners 2020-23 Batch

S.NO	GROUP	Number of advance learners
1.	B.Z.C	31
2.	BZAN	9
3.	BCAN	1
4.	BBcAN	01

Research and Innovation

Amreen Fatima-----Research Scholar, ICMR

S. Vasudha ---- -Pursuing PhD., at Hyderabad Central University

V. Gnanojwala-----Junior Project Assistant at Botanical Survey of India, Deccan Regional Center, Hyderabad.

Shriya Working at NIN.

6. Research & Innovation

Papers published, Books written and Editorships

Papers published-21

Books written-09

Editorships-02

Dr Sarah Naheed

1.Studies on Callusing efficiency of hypocotyls explants of ICGS-II cultivar of *Arachis hypogaea* L.International Journal of Ecotoxicology and Agricultural Technology-Bangladesh.ISSN 2079-794X Vol.Ino,1 95-102,2010

2.Invitro Regeneration Response of Hypocotyl explants of ICGS-II cultivar of *Arachis hypogaea* L.international journal of Ecotoxicology and Agriculture technology-Bangladesh. .ISSN 2079-794X Vol III 95-102,2010

3.Invitro regeneration response of leaflet explants of ICGS-II cultivar of *Arachis hypogaea* L. Advances in Plant Sciences , An International Journal of Academy of Plant Sciences ISSN 0970-3586 ,24(II)471-473,2011

4.Effect of heavy metals on *Boerhavia diffusa* and SDS –PAGE profiling of proteins,Journal of phytonanotechnology and pharmaceutical sciences2(2):15-19,2022,online:ISSN:2583-0376

5.Selection of salinity resistant mutant calli of ICGS-!!and ICGS-44 cultivars of *Arachis hypogaea*L in European Journal of Biotech and Biosc.

Books Written & Edited Published

1.Nursery and gardening SEC course for UG Published by Maulana Azad National Urdu University ,Hyderabad

2.Practical Manual for BSc coursePublished by Maulana Azad National Urdu University ,Hyderabad

3.Editor of Souvenir of 16th National Science Fair ,2023

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.

Dr Vijaya Lalitha

1. Presence of root knot nematode(Melidogyne spp) in major solanaceous crops in Ranga Reddy district,Telangana state.

<http://dx.doi.org/10.24327/ijrsr.2022.1301.0027>

Mrs K Kalyani

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 29th 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-III
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).

Book publication:

1. Co- author of the book, “Invent yourself its Science,” published with ISBN-978-93-91302-67-2, May 2021

Mrs Joythi

1. Title: *Tinospora cordifolia* A Miraculous Medicinal Plant: A Review.
Book: Multidisciplinary Research, Volume-2 ISBN: 978-93-90996-57-5.

2. Title: *Miracle Tree: An Overview on Multipurpose Properties of Moringa oleifera.*

Book: '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).

Mrs Sumalata

1. Published a paper entitled "Tinospora – A Miraculous Medicinal plant: A Review"

in *Multidisciplinary Research, volume-2* , with ISBN: 978-93-90996-57-5 on 30/8/2021.

2. 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).

Mrs Swathi

1 *Characterisation & Ethno medical knowledge of plants of medicinal plants* in *International Journal* in the Month of July 2021.

2. Published a research paper entitled *Assessment of pollution in Foxsagar Lake, Jeedimetla*, in *International Journal of Scientific Research in chemistry* in the month of August 2021.

Mrs Shiphra Jones

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). Open Access Journals- Need of the Hour (Aug 2021).
5. Arbuscular Mycorrhizal fungal association in medicinal plants (July 2022) Open Access Journals- Need of the Hour (Aug 2021).

9. Memorandum of understanding

**MEMORANDUM OF UNDERSTANDING
BETWEEN
Sarojini Naidu Vanita Maha Vidyalaya, Hyderabad, Telangana
(Department of Botany)**

AND

**LEARN TO UPGRADE, A SKILL DEVELOPMENT BIOSCIENCE/PHARMACEUTICAL INSTITUTE,
DELHI**

Whereas Sarojini Naidu Vanita Maha Vidyalaya is an Institution, offering multi-disciplinary UG, PG and Research Programmes in Arts, Sciences, Social Sciences, Commerce, Management, Education having its 9FM9+VMF, exhibition grounds, Nampally, Hyderabad, Telangana

Whereas LEARN TO UPGRADE, A SKILL DEVELOPMENT BIOSCIENCE/ PHARMACEUTICAL INSTITUTE, DELHI is an acknowledged/accredited academic, research, social and cultural Higher Education Institution offering multi-disciplinary UG, PG and Research Programmes in Arts, Sciences, Social Sciences and other specialised Faculties having its Main Campus at Community Centre, B52, 3rd Floor, Janakpuri, New Delhi, Delhi and

Whereas as Sarojini Naidu Vanita Maha Vidyalaya and LEARN TO UPGRADE, A SKILL DEVELOPMENT BIOSCIENCE/ PHARMACEUTICAL INSTITUTE, (hereinafter jointly referred to as 'Parties') have agreed to enter in to an academic cooperation to collaborate in academics and/or research in multiple disciplines for mutual benefit to its constituent stakeholders, particularly for the Students and Faculty Members of the Parties

This Memorandum of Understanding (MOU) is entered to between the Parties which witnesseth as hereunder.

Article 1

The purpose of this MOU is to strengthen and to develop academic, research cooperation, and to promote mutual understanding between the Parties.

Article 2

- 2.1 With the intention of implementing the goals of this Memorandum, the Parties have generally agreed to cooperate in the following areas:
- 2.1.1 academic exchanges of teachers, researchers, PhD students, graduate and undergraduate students for the purposes of education, long-term and short-term internship, educational-scientific practices and training, professional (educational-manufacturing, manufacturing, research, pre graduation and pedagogical) practices;
 - 2.1.2 cooperation in the preparation of highly qualified educational and scientific staff and specialists in the fields of mutual interest;
 - 2.1.3 cooperation in the field of joint educational dual-degree programmes at the level of undergraduate and graduate programmes with the issue of Diploma certificates of the Parties;
 - 2.1.4 Cooperation in the field of PhD/ PG programmes, including opening of a jointprogramme subject to applicable statutory regulations affecting either party.
 - 2.1.5 invitation of the representatives of the Parties to read lectures, exchange of experience and information in the educational, methodological work and exchange of educational projects and programmes;
 - 2.1.6 organizing and conducting online lectures by professors and administrative staff of the Parties;
 - 2.1.7 organization of joint scientific and scientific-technological researches, including, but, without being limited, with involving professorial staff for co-management and scientific consultation in the writing of master's and doctoral theses;
 - 2.1.8 Organization of scientific and scientific-technical joint research, conferences, seminars, symposia, round tables, days which are devoted to the Parties and other similar scientific actions and initiatives in the field of education and science. The result of joint research activities and other initiatives in the field of education are, including publications in peer-reviewed scientific journals included in the world's leading database Science Citation, including Web of Science, Scopus, and others;

- 2.1.9 creating and publication of joint scientific and educational works in the results of implementation of joint activities;
- 2.1.10 exchanges of publications, scientific research, educational and methodological literature, periodicals and information about mutually relevant ongoing activities;
- 2.1.11 training and retraining of the Parties' employees without contravening the statutory objectives of either Party;
- 2.1.12 invitation of administrative staff to improve university governance and structure with the introduction of modern administrative practices in the management of the university;
- 2.1.13 preparation of joint applications for scholarships through educational programmes that exist in the Parties;
- 2.1.14 exchange of banners, and/or placement of the links to the Parties' websites;
- 2.1.15 informing the Parties about upcoming fairs and exhibitions in the field of education, organized by the Parties

Article 3

The terms of the activities defined in the Article 2 will be determined by separate agreements between the Parties.

Article 4

The cost and expenses to be paid in relation to any co-operation or collaboration envisaged under this MOU shall be subject to further detail arrangements to be agreed between the Parties as and when it shall arise.

The Parties consider attracting potential financial partners, including funds if possible subject to statutory/regulatory restrictions if any.

Article 5

This MOU may be amended or modified by a written additional agreement, which will be an undivided part of this MOU which must be properly exchanged duly signed by the representatives of either Party.

Article 6

Both Parties agree to carry out these activities in accordance with the laws and regulations of the respective countries.

Disputes, arising in accordance with the Memorandum will be resolved by consultation and conversation between the Parties.

Article 7

This MOU enters into validity and effect on the day of its signing by the statutory representatives of the Parties. It shall be effective for a period of 2 (Two) years and subject to review may be renewed for the next 1 (one) years unless it is terminated by either of the Parties upon prior notice to the other in writing of not less than 6 (six) months before the termination date. However, no such termination shall affect the continuity till completion of the already existing activities under the MOU.

Article 8

Each Party shall have a Coordinator for the MOU who shall be responsible for organizing and implementing this MOU under Article 2 above by connecting with appropriate Department/s of the Parties. The contact details of

the Coordinators shall be as stated herein and may be changed by the Parties at any time during the term of this MOU by communication in writing.

The coordinators currently designated for the purpose are:

Coordinator at Sarojini Naidu Vanita MahaVidyalaya:

Coordinator at LEARNTO UPGRADE,

BIOSCIENCE/ PHARMACEUTICAL INSTITUTE,:

Name: Dr.SARAH NAHEED

Title: HOD of BOTANY

Telephone: 096526 52015

Mobile: +91-96526 52015

Email:snvmv@rediffmail.com

MS.SHWETA RAGHAV

Programme Coordinator

09289128356

+919289128356

shweta@learntoupgrade.com

Article 9

This MOU will not be considered to be a contract creating legal or financial relationships between the parties. Rather, it will form the basis for entering into specific agreement/s (which may include exchange of letters for specific purpose) designed to facilitate development and maintenance of a mutually beneficial academic relationship.

Article 10

Each Party shall preserve, keep strictly confidential for exclusive purposes of this MOU and shall not disclose to any third party any Confidential Information that they may access by virtue of this MOU or by any agreement arising there from except to the extent that such disclosure is mandated by any applicable Law or Court or Administrative Order.

Article 11

Both parties are responsible for their own costs in relation to this MOU unless otherwise agreed.

For the above, Learntoupgrade will provide:

- Learntoupgrade will provide the registration link to the college consisting all the internship details like duration,fee,agenda andotherdetails.
- Learntoupgradewillbe providingasmoothvirtual trainingfor registeredstudentswithallpromisedamenities.
- Learntoupgradewillprovideadesertionreport andInternshipcertificatetoallparticipantsattheendoftheInternship.
- Learntoupgradewillprovidethe Appaccessand webportalaccessto allthe students.
- Learntoupgradewillbe providedaccessofallstudymaterial andclassesrecordingwithlifetimeaccess.
- Learntoupgradewillalsoassistmerit studentsforfurtherplacements.
- Learntoupgrade will conduct 2 free International webinar for the college with the duration of 2 days each underthecollege banner.
- Learntoupgradewillalsoorganize1FDPprogramfreeforthecollegeeachyearinsummer alongwiththecertificates
- Learntoupgradewillbe providingthemarketingmaterial,likeposter,flex,brochureofinternship.

II. Purposeofthis MOU:

Purpose of this MOU to create a strong relation with two organization where both can have a win-winsituation, and collaborating for smooth delivery of internship to all the students Bioscience/lifescience/Pharma/Medicalscience.

This MOU is signed by the duly authorised officials of the Parties on the day first mentioned hereinabove.

SAROJINI NAIDU VANITA MAHAVIDYALAYA (Name of collaborating Institution)

By Principal -

By LEARNTOUPGRADE

Name: Dr. D SHOBHANA

Name: Hardeep Singh Puri

Date: 19/09/2023

Date: 19/09/2023

E-mail: snmv@rediffmail.com E-mail:support@learntoupgrade.com

Website: <http://www.snvanita.org> Website: www.learntoupgrade.com



10.Result Analysis

SAROJINI NAIDU VANITA MAHA VIDYALAYA

DEPARTMENT OF BOTANY

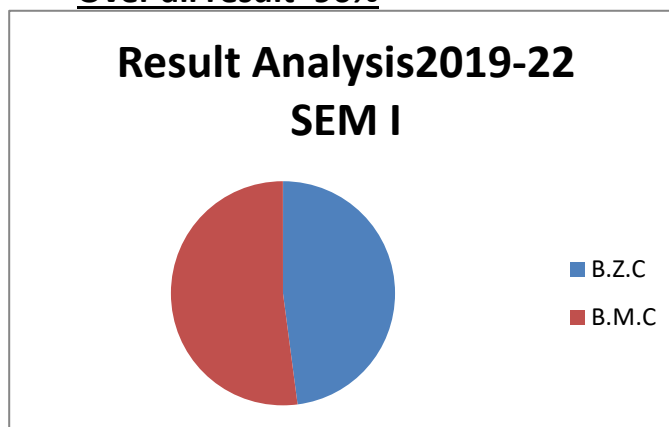
RESULT ANALYSIS - 2019-2022

SEM-I

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
<u>1.</u>	<u>B.Z.C</u>	<u>93</u>	<u>86</u>	<u>7</u>	<u>92%</u>
<u>2.</u>	<u>B.M.C</u>	<u>31</u>	<u>31</u>	<u>nil</u>	<u>100%</u>

Over all result=96%

GROUP	Result Analysis 2019-22 SEM I
<u>B.Z.C</u>	<u>92%</u>
<u>B.M.C</u>	<u>100%</u>

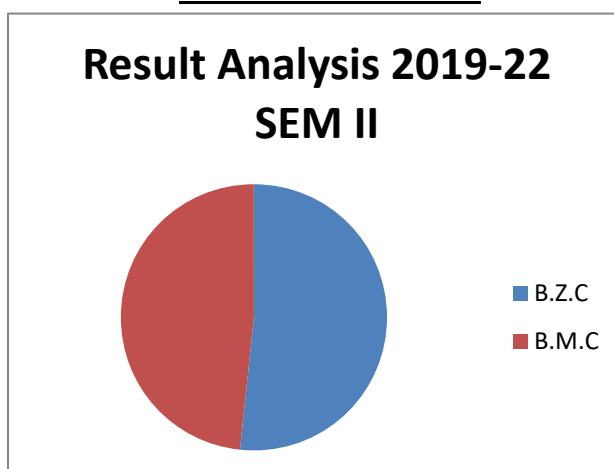


SEM-II

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
<u>1.</u>	<u>B.Z.C</u>	<u>90</u>	<u>84</u>	<u>6</u>	<u>93%</u>
<u>2.</u>	<u>B.M.C</u>	<u>31</u>	<u>27</u>	<u>4</u>	<u>87%</u>

Over all result=90%

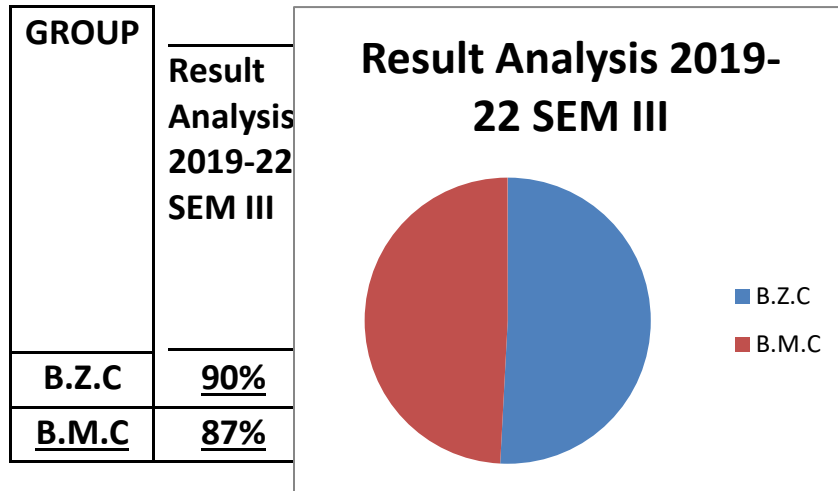
GROUP	Result Analysis 2019-22 SEM II
<u>B.Z.C</u>	<u>93%</u>
<u>B.M.C</u>	<u>87%</u>



SEM-III

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
<u>1.</u>	<u>B.Z.C</u>	<u>84</u>	<u>76</u>	<u>8</u>	<u>90%</u>
<u>2.</u>	<u>B.M.C</u>	<u>30</u>	<u>26</u>	<u>4</u>	<u>87%</u>

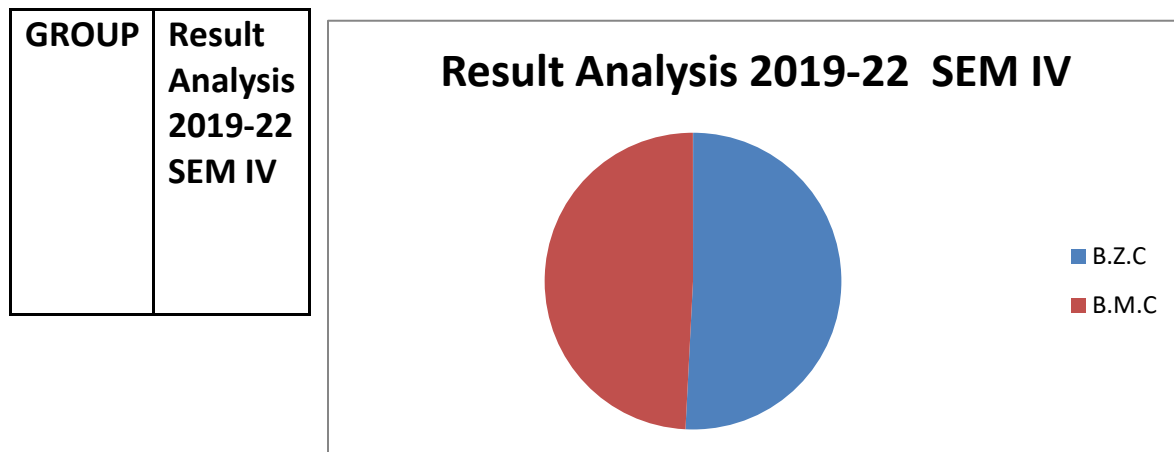
Over all result=89%



SEM-IV

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
<u>1.</u>	<u>B.Z.C</u>	<u>84</u>	<u>78</u>	<u>6</u>	<u>93%</u>
<u>2.</u>	<u>B.M.C</u>	<u>31</u>	<u>29</u>	<u>2</u>	<u>90%</u>

Over all result=92%



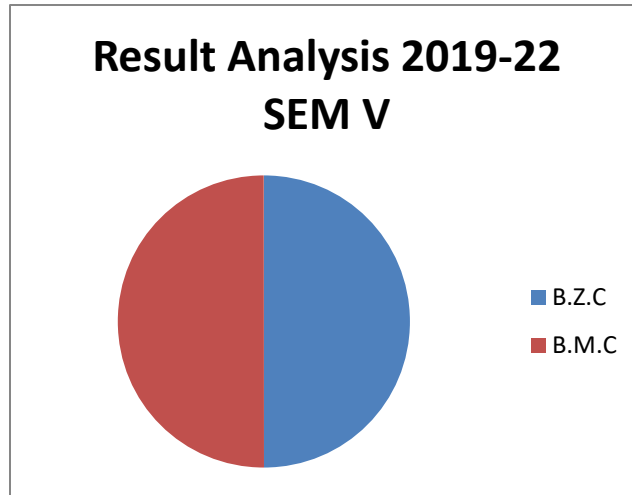
B.Z.C	<u>93%</u>
B.M.C	<u>90%</u>

SEM-V

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
<u>1.</u>	<u>B.Z.C</u>	<u>83</u>	<u>83</u>	<u>nil</u>	<u>100%</u>
<u>2.</u>	<u>B.M.C</u>	<u>28</u>	<u>28</u>	<u>nil</u>	<u>100%</u>

Over all result=100%

GROUP	Result Analysis 2019-22 SEM V
<u>B.Z.C</u>	<u>100%</u>
<u>B.M.C</u>	<u>100%</u>



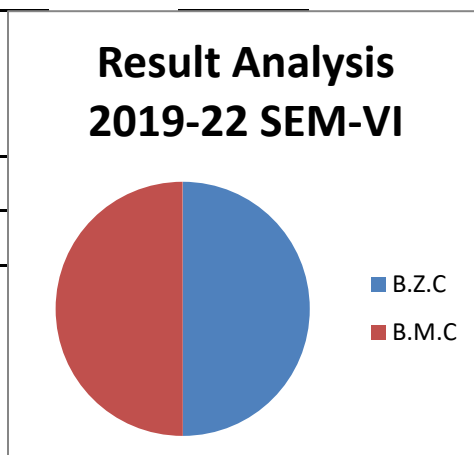
SEM-VI

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
<u>1.</u>	<u>B.Z.C</u>	<u>83</u>	<u>83</u>	<u>nil</u>	<u>100%</u>
<u>2.</u>	<u>B.M.C</u>	<u>29</u>	<u>28</u>	<u>nil</u>	<u>100%</u>

Over all result=100%

Result Analysis 2019-22 Batch

GROUP	PERCENTAGE
<u>B.Z.C</u>	<u>100%</u>
<u>B.M.C</u>	<u>100%</u>



Department of Botany

Attainment of POs and Cos (2020-2023)

POs and Cos Mapping for all the Semesters for 2020-2023 Batch

Year-I Semester-I

Course code	BS- 104
Course name	Microbial diversity and lower plants
BS- 104(unit-1)	Study of bacteria , viruses mycoplasma and diseases cuased by them and control
BS- 104.2	Study of various genera of algae
BS- 104.3	Study of fungi –classification ,structure and function
BS- 104.4	Study of bryophyte and pteridophyta

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 104 .1	✓	✓	✓	✓		✓	✓	✓
BS- 104.2	✓	✓	✓	✓		✓	✓	✓
BS- 104.3	✓	✓	✓	✓	✓		✓	
BS- 104.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 104 .1	3	3	3	3	0	2	2	2	2.2
BS- 104.2	3	3	3	3	0	2	3	2	2.4
BS- 104.3	3	3	3	3	3	0	3	0	2.0
BS- 104.4	3	3	3	3	3	2	3	0	2.5
	3	3	3	3	1.5	1.5	3	1.0	2.4

Attainment is 2.4

Year-I Semester-II

Course code	BS- 204
Course name	Gymnosperms, Taxonomy of Angiosperms and Ecology
BS- 204(unit-1)	Study of gymnosperms,Pinus,Gnetum ,Geological time and paleobotany
BS- 204.2	Study of Taxonomy of Angiosperms
BS- 204.3	Systematic study of Dicotyledonous and Monocotyledonous families
BS- 204.4	Study of Ecology

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 204(unit-1)	✓	✓	✓	✓	✓			✓
BS- 204.2	✓	✓	✓	✓	✓	✓		✓
BS- 204.3	✓	✓	✓	✓	✓	✓	✓	
BS- 204.4	✓	✓	✓	✓	✓	✓		✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS-204(unit-1)	3	3	3	3	2	0	0	2	2.2
BS- 204.2	3	3	3	3	2	2	0	2	2.2
BS- 204.3	3	3	3	3	2	2	2	2	2.5
BS- 204.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Attainment=2.3

Year-II Semester-III

Course code	BS- 304
Course name	Plant Anatomy and Embryology
BS- 304.1unit-1)	Study of Plant tissue,hydrophytes and xerophytes
BS- 304.2	Study of Stem and root anatomy, anomalous secondary growth and wood structure
BS- 304.3	Study of Plant embryology
BS- 304.4	Study of Palynology ,seed structure ,embryo structure,polyembryony and apomixis

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 304.1unit-1)	✓	✓	✓	✓	✓	✓		✓
BS- 304.2	✓	✓	✓	✓	✓		✓	✓
BS- 304.3	✓	✓	✓	✓	✓	✓		
BS- 304.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS-204(unit-1)	3	3	3	3	2	2	0	2	2.25
BS- 204.2	3	3	3	3	2	0	2	2	2.2
BS- 204.3	3	3	3	3	2	2	2	2	2.5
BS- 204.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Attainment=2.3

Year-II Semester-IV

Course code	BS- 404
Course name	Cell biology ,genetics and plant physiology
BS- 404.1	Study of Plant cell structure and cell division
BS- 404.2	Study of Mendelism linkage and crossing over
BS- 404.3	Study of Water relations ,mineral nutrition,transpiration ,phloem transport and enzymes
BS- 404.4	Study of Photosynthesis,respiration,nitrogen metabolism,protein synthesis and phytohormones

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
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outcome								
BS- 404.1	✓	✓	✓	✓	✓		✓	✓
BS- 404.2	✓	✓	✓	✓	✓		✓	✓
BS- 404.3	✓	✓	✓	✓	✓		✓	
BS- 404.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 404.1	3	3	3	3	2	0	0	2	2.2
BS- 404.2	3	3	3	3	2	2	0	2	2.2
BS- 404.3	3	3	3	3	2	2	2	2	2.5
BS- 404.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Attainment=2.3
Year-III Semester-V

Course code	BS- 504
Course name	Economic Botany
BS- 504.1	Study of Origin of cultivated plants ,vegetables cereals and millets
BS- 504.2	Study of Legumes fruits nuts sugars spices and starches
BS- 504.3	Study of Beverages, edible oils essential oils and rubber
BS- 504.4	Study of Drug yielding plants tobacco ,timber and fibre

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PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 504.1	✓	✓	✓	✓	✓		✓	✓
BS- 504.2	✓	✓	✓	✓	✓		✓	✓
BS- 504.3	✓	✓	✓	✓	✓		✓	
BS- 504.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 504.1	3	3	3	3	2	0	0	2	2.2

BS- 504.2	3	3	3	3	2	2	0	2	2.2
BS- 504.3	3	3	3	3	2	2	2	2	2.5
BS- 504.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Attainment=2.3

Year-III Semester-VI

Course code	BS- 604
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Course name	Tissue culture and Biotechnology
BS- 604.1	Tissue culture ,organ culture callus culture organogenesis and embryogenesis
BS- 604.2	Applications of tissue culture ,induction of hairy roots,haplouids, triploids somatic hybridsand cybrids
BS- 604.3	Biotechnology ,r DNA technology and gencloning
BS- 604.4	Gene libraries ,gene transfer methods and applications of transgenic plants

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 604.1	✓	✓	✓	✓	✓		✓	✓
BS- 604.2	✓	✓	✓	✓	✓		✓	✓
BS- 604.3	✓	✓	✓	✓	✓		✓	
BS- 604.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 604.1	3	3	3	3	2	0	0	2	2.2
BS- 604.2	3	3	3	3	2	2	0	2	2.2
BS- 604.3	3	3	3	3	2	2	2	2	2.5
BS- 604.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Attainment=2.3

**Course Attainment through Theory Exam Results
Batch 2019-22
Semester I**

Course outcome	No. of students attempted	Threshold value	No. of students above threshold value	Percentage of students above threshold	Level of attainment
CO104	82	>=B	67	82%	3
CO204	85	>=A	74	87%	3
CO304	83	>=B	81	97%	3
CO404	83	O	81	97%	3
CO504	83	O	82	99%	3
CO604	83	O	82	99%	3

>40 i.e. 3 attainment level is 3

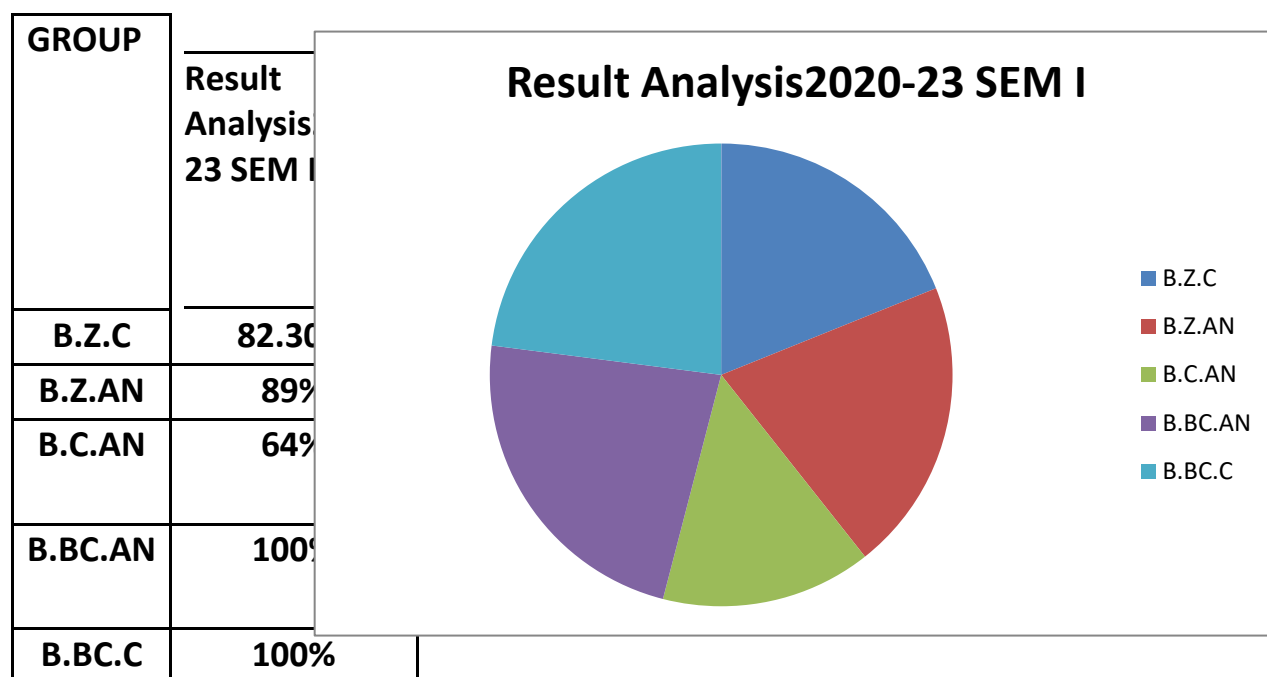
Report of a Result Attainment of BSc 2020-23 Batch

The 2019-22 batch attainment is highest of 3 as the maximum students have obtained the threshold values.

RESULT ANALYSIS - 2020-2023
SEM - I

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
1.	B.Z.C	34	28	06%	82.3%
2.	B.Z.AN	37	33	04%	89%
3.	B.C.AN	14	09	05%	64%
4.	B.BC.AN	20	20	Nil	100%
5.	B.BC.C	02	02	Nil	100%

Overall % = 86%

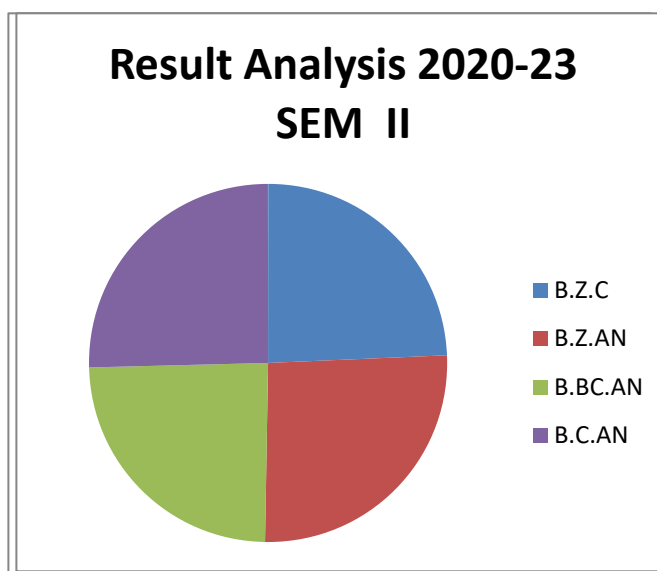


SEM - II

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
1.	B.Z.C	39	35	04%	90%
2.	B.Z.AN	25	24	01%	96%
3.	B.BC.AN	10	09	01%	90%
4.	B.C.AN	17	16	01%	94%
5	B.Bc.C	01	01	nil	100%

Overall % = 94%

GROUP	Result Analysis 2020-23 SEM II
B.Z.C	90%
B.Z.AN	96%
B.BC.AN	90%
B.C.AN	94%

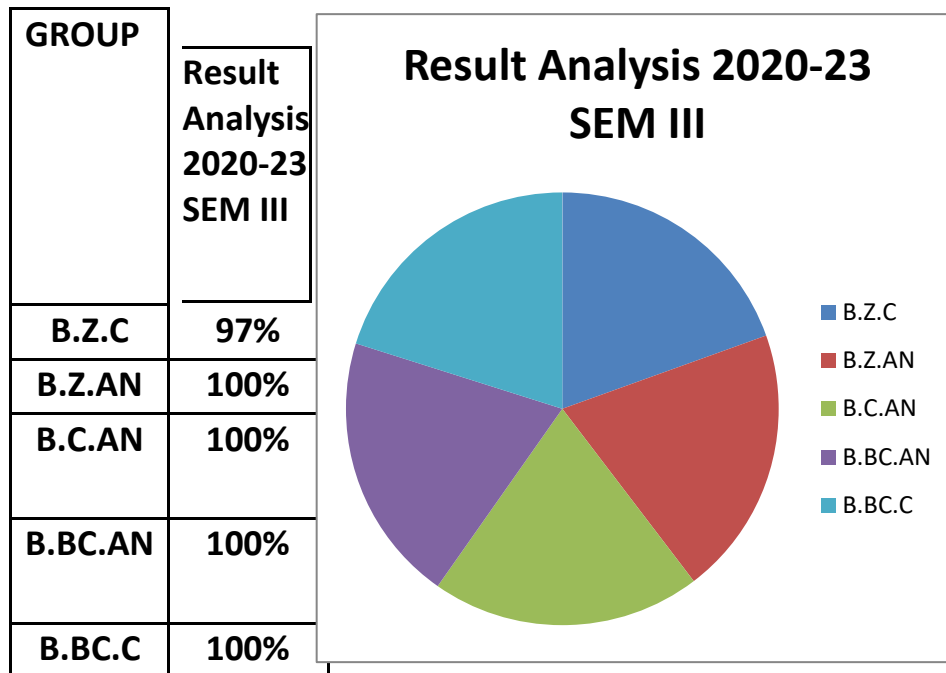


SAROJINI NAIDU VANITA MAHA VIDYALAYA
DEPARTMENT OF BOTANY

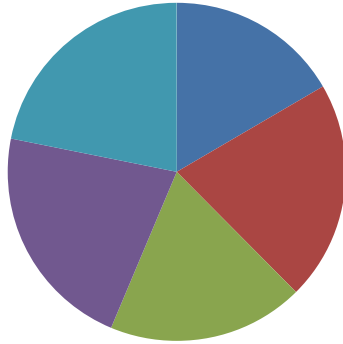
RESULT ANALYSIS - 2020-23
SEM - III

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
1.	B.Z.C	33	32	1	97%
2.	B.Z.AN	22	22	NIL	100%
3.	B.C.AN	17	17	NIL	100%
4.	B.BC.AN	09	09	NIL	100%
5.	B.BC.C	01	01	NIL	100%

Overall % = 97%



DEPARTMENT OF BOTANY
RESULT ANALYSIS - 2020-2023
SEM - IV

S.NO	GROUP	APPEARED	PASSED
1.	B.Z.C	45	34
2.	B.Z.AN	23	<p style="text-align: center;"><u>DEPARTMENT OF BOTANY</u> <u>RESULT ANALYSIS - 2020-</u> <u>2023</u> <u>SEM - IV</u></p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>DEPARTMENT OF BOTANY RESULT ANALYSIS - 2020-2023 SEM - IV PERCENTAGE PASS</p>  <ul style="list-style-type: none"> ■ B.Z.C 76% ■ B.Z.AN 96% ■ B.C.AN 86% ■ B.BC.C 100% ■ B.BC.AN 100% </div> <p style="text-align: center;">B.BC.AN 100% 100%</p>

3.	B.C.AN	07		06
4.	B.BC.C	01		01
5.	B.BC.AN	05		05

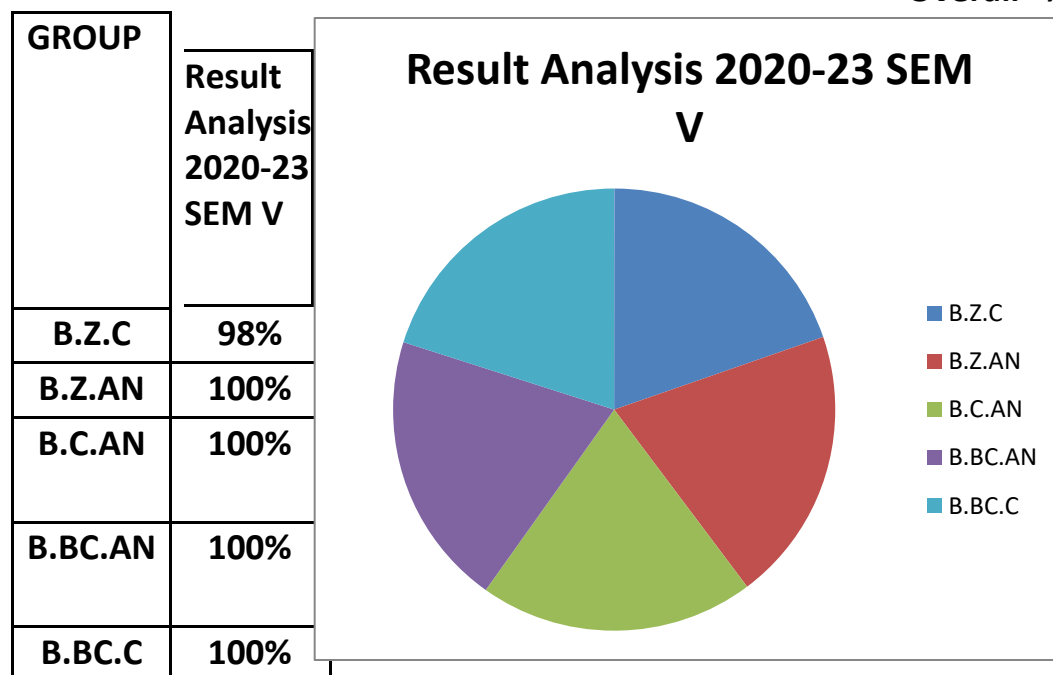
Overall % = 92%

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DEPARTMENT OF BOTANY

RESULT ANALYSIS - 2020-2023
SEM - V

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
1.	B.Z.C	47	46	1	98%
2.	B.Z.AN	23	23	NIL	100%
3.	B.C.AN	07	07	NIL	100%
4.	B.BC.AN	05	05	NIL	100%
5.	B.BC.C	01	01	NIL	100%

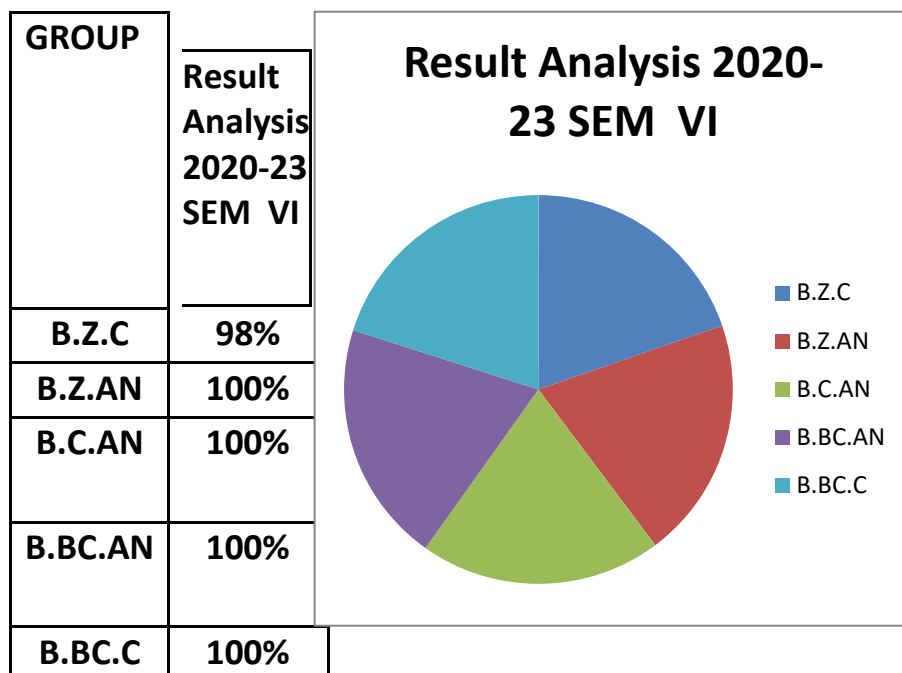
Overall % = 98%



SAROJINI NAIDU VANITA MAHA VIDYALAYA
DEPARTMENT OF BOTANY
RESULT ANALYSIS - 2020-2023
SEM - VI

S.NO	GROUP	APPEARED	PASSED	FAILED	PERCENTAGE
1.	B.Z.C	47	46	1	98%
2.	B.Z.AN	23	23	NIL	100%
3.	B.C.AN	07	07	NIL	100%
4.	B.BC.AN	05	05	NIL	100%
5.	B.BC.C	01	01	NIL	100%

Overall % = 98%



**CO and POS Mapping for all the Semesters for Batch
2020-2023 (UG)**

Department of Botany

Attainment of POs and Cos (2020-2023)

POs and Cos Mapping for all the Semesters for 2020-2023 Batch

Year-I Semester-I

Course code	BS- 104
Course name	Microbial diversity and lower plants
BS- 104(unit-1)	Study of bacteria , viruses mycoplasma and diseases cuased by them and control
BS- 104.2	Study of various genera of algae
BS- 104.3	Study of fungi –classification ,structure and function
BS- 104.4	Study of bryophyte and pteridophyta

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 104 .1	✓	✓	✓	✓	✓		✓	✓
BS- 104.2	✓	✓	✓	✓	✓		✓	✓
BS- 104.3	✓	✓	✓	✓	✓		✓	
BS- 104.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 104 .1	3	3	3	3	2	0	3	2	2.3
BS- 104.2	3	3	3	3	2	0	3	2	2.3
BS- 104.3	3	3	3	3	3	0	3	0	2.0
BS- 104.4	3	3	3	3	3	2	3	0	2.5
	3	3	3	3	2.5	0.5	3	1.0	2.37

Attainment is 2.3

Year-I Semester-II

Course code	BS- 204
Course name	Gymnosperms, Taxonomy of Angiosperms and Ecology
BS- 204(unit-1)	Study of gymnosperms,Pinus,Gnetum ,Geological time and paleobotany
BS- 204.2	Study of Taxonomy of Angiosperms
BS- 204.3	Systematic study of Dicotyledonous and Monocotyledonous families
BS- 204.4	Study of Ecology

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 204(unit-1)	✓	✓	✓	✓	✓			✓
BS- 204.2	✓	✓	✓	✓	✓	✓		✓
BS- 204.3	✓	✓	✓	✓	✓	✓	✓	
BS- 204.4	✓	✓	✓	✓	✓	✓		✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS-204(unit-1)	3	3	3	3	2	0	0	2	2.2
BS- 204.2	3	3	3	3	2	2	0	2	2.2
BS- 204.3	3	3	3	3	2	2	2	2	2.5
BS- 204.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Year-II Semester-III

Course code	BS- 304
Course name	Plant Anatomy and Embryology
BS- 304.1unit-1)	Study of Plant tissue,hydrophytes and xerophytes
BS- 304.2	Study of Stem and root anatomy, anomalous secondary growth and wood structure
BS- 304.3	Study of Plant embryology
BS- 304.4	Study of Palynology ,seed structure ,embryo structure,polyembryony and apomixis

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

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Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS-304.1(unit-1)	✓	✓	✓	✓	✓		✓	✓
BS- 304.2	✓	✓	✓	✓	✓		✓	✓
BS- 304.3	✓	✓	✓	✓	✓		✓	
BS- 304.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS-204(unit-1)	3	3	3	3	2	0	0	2	2.2
BS- 204.2	3	3	3	3	2	2	0	2	2.2
BS- 204.3	3	3	3	3	2	2	2	2	2.5
BS- 204.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Year-II Semester-IV

Course code	BS- 404
Course name	Cell biology ,genetics and plant physiology
BS- 404.1	Study of Plant cell structure and cell division
BS- 404.2	Study of Mendelism linkage and crossing over
BS- 404.3	Study of Water relations ,mineral nutrition,transpiration ,phloem transport and enzymes
BS- 404.4	Study of Photosynthesis,respiration,nitrogen metabolism,protein synthesis and phytohormones

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 404.1	✓	✓	✓	✓	✓		✓	✓
BS- 404.2	✓	✓	✓	✓	✓		✓	✓
BS- 404.3	✓	✓	✓	✓	✓		✓	
BS- 404.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 404.1	3	3	3	3	2	0	0	2	2.2
BS- 404.2	3	3	3	3	2	2	0	2	2.2
BS- 404.3	3	3	3	3	2	2	2	2	2.5
BS- 404.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Year-III Semester-V

Course code	BS- 504
Course name	Economic Botany
BS- 504.1	Study of Origin of cultivated plants ,vegetables cereals and millets
BS- 504.2	Study of Legumes fruits nuts sugars spices and starches
BS- 504.3	Study of Beverages, edible oils essential oils and rubber
BS- 504.4	Study of Drug yielding plants tobacco ,timber and fibre

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 504.1	✓	✓	✓	✓	✓		✓	✓
BS- 504.2	✓	✓	✓	✓	✓		✓	✓
BS- 504.3	✓	✓	✓	✓	✓		✓	
BS- 504.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 504.1	3	3	3	3	2	0	0	2	2.2
BS- 504.2	3	3	3	3	2	2	0	2	2.2
BS- 504.3	3	3	3	3	2	2	2	2	2.5
BS- 504.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Year-III Semester-VI

Course code	BS- 604
Course name	Tissue culture and Biotechnology
BS- 604.1	Tissue culture ,organ culture callus culture organogenesis and embryogenesis
BS- 604.2	Applications of tissue culture ,induction of hairy roots,haplouids, triploids somatic hybridsand cybrids
BS- 604.3	Biotechnology ,r DNA technology and gencloning
BS- 604.4	Gene libraries ,gene transfer methods and applications of transgenic plants

PO	Program outcome
PO1	Recall,Identify,define and outline
PO2	Recognize,clarify,illustrate,elaborate and explain
PO3	Summarise ,explain ,develop,instruct
PO4	Discuss ,clarify ,present
PO5	Examine, judge, alternative and compare
PO6	Formulate, evaluate,and improve
PO7	Evaluate, assess and evolve
PO8	Estimate predict and apply

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BS- 604.1	✓	✓	✓	✓	✓		✓	✓
BS- 604.2	✓	✓	✓	✓	✓		✓	✓
BS- 604.3	✓	✓	✓	✓	✓		✓	
BS- 604.4	✓	✓	✓	✓	✓	✓	✓	✓

Course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
BS- 604.1	3	3	3	3	2	0	0	2	2.2
BS- 604.2	3	3	3	3	2	2	0	2	2.2
BS- 604.3	3	3	3	3	2	2	2	2	2.5
BS- 604.4	3	3	3	3	2	2	0	2	2.2
	3	3	3	3	2	2.5	0.5	2	2.3

Course Attainment through Theory Exam Results

Batch 2020-23

Semester I

No. of students appeared=

Course outcome	No. of students attempted	Threshold value	No. of students above threshold value	Percentage of students above threshold	Level of attainment
CO104	82	>=B	67	82%	3
CO204	85	>=A	74	87%	3
CO304	83	O	81	97%	3
CO404	83	O	81	97%	3
CO504	83	O	82	99%	3
CO604	83	O	82	99%	3

>40 i.e. 3 attainment level is 3

Report of a Result Attainment of BSc 2020-23 Batch

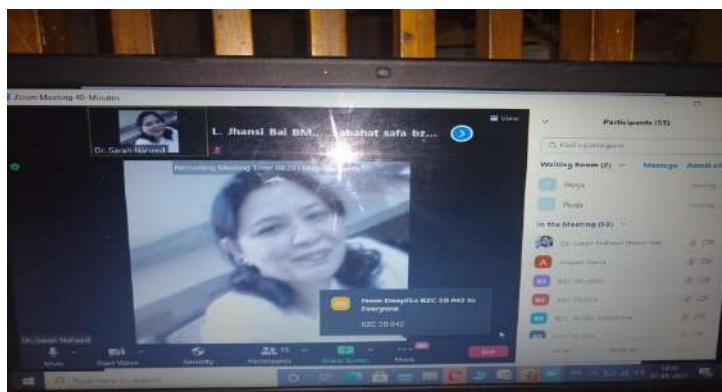
The 2020-23 batch attainment is highest of 3 as the maximum students have obtained above the threshold values.

11.Outreach programmes



Outreach Programmes at Government schools

DrSarah Naheed is also scientific forum co ordinator of Telangana Science Fair Academy. She has been an active member of various outreach programmes organized ,the details of which are furnished below.



Online Sessions on Research methodology to school students, 2018-19



Telangana Science Fair Academy souvenir 2022-23 release function
Dr Sarah Naheed , addressing the gathering as Co ordinator scientific
research forum and editor of the souvenir2018-19



Dr Sarah Naheed addressing the school students as co ordinator scientific
research forum at an out reach programme2019-20



Dr Sarah Naheed addressing the school students creating awareness about environmental protection ,2021-22



Dr Sarah Naheed addressing the school students creating about noise pollution and its hazards,2022-23



Dr Sarah Naheed addressing school students on Holistic development 2023-24



انگلینڈ میں سائنس کی تعلیم کے لیے 15 ویں ایڈیشن کا پروگرام جاری ہے۔ اس پروگرام کے تحت پاکستان کے سائنس دانوں کو اپنی تحقیقاتی کامیابیوں کے بارے میں بتانے کا موقع ملے گا۔ اس موقع پر پاکستان کے سائنس دانوں کو اپنی تحقیقاتی کامیابیوں کے بارے میں بتانے کا موقع ملے گا۔ اس موقع پر پاکستان کے سائنس دانوں کو اپنی تحقیقاتی کامیابیوں کے بارے میں بتانے کا موقع ملے گا۔

Dr Sarah Naheed was Co ordinator Scientific Research Forum ,!5th Regional Science Fair , 2024

12. Achievements and recognitions

Dr Sarah Naheed

Awards-



Best placement officer award from Solidarity committee, Telangana





Best Teacher Award -2011 from Solidarity committee, Telangana



Best Teacher Award -2012 from Solidarity committee, Telangana



FANOOS E AGHAI AWARD 2024 National Excellence Award



NIEIA 2024 award for exemplary service and contribution to educational and social advancement

Dr Vijaylalita



Savitri Bai Phule National award



Solidarity Committee Best Teacher State Award



Global International Peace Award

Mrs N Swathi
Awards:Guru Spandana Puraskar-2022



13. Departmental Regular activities





Miss Anjali –Firat prize in Regional Science Fair by Telangana Science Fair Academy ,2022

Picture of Tahura & Vijaylaxmi PG student Won First prize at Botany department ,O.U2024



TWO DAY SCIENCE ACADEMIES' VIRTUAL LECTURE WORKSHOP
On
PROGRESS IN LIFE SCIENCES WITH EMPHASIS ON ROLE OF MICRONUTRIENTS
ORGANIZED BY

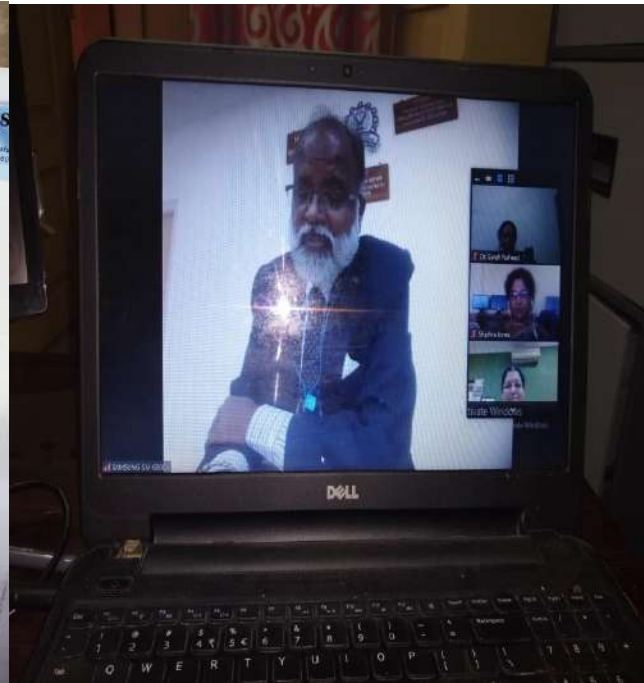

SARGANI NAIDU VANITA MAHA VIDYALAYA
(NAAC Accredited with B grade, 3rd cycle)
Sponsored jointly by OGA & Exhibition Society
Exhibition Grounds, Mukarvam Jani Road, Nampally,
Hyderabad-1, Telangana


Supported by
Indian Academy of Sciences, Bangalore
Indian National Science Academy, New Delhi
The National Academy of Sciences, India, Allahabad

February 9th - 10th 2021

SCHEDULE

No.	Session	Day-I Name of the Resource Persons & Title of Lecture
	10.00 am to 10.30 am	Inauguration & An overview of activities of Science Education Panel of Academies
1	10.30 am to 11.30 am	Lecture-I The curse of Malnutrition in India: Problems and agenda for action Dr. Ms. Mahtab S. Hamji
	11.30 am to 11.45 am	Question & Answer Session
2	11.45 am to 12.45 pm	Lecture-II Micronutrient deficiencies in the apparently healthy adults: Sub-clinical status and dietary intakes Dr. G. Bhanu prakash Reddy
	12.45 pm to 01.00 pm	Question & Answer Session
	01.00 pm to 01.30 pm	Lunch
3	01.30 pm to 02.30 pm	Lecture-III Micronutrient status in complications of diabetes Dr. G. Bhanu prakash Reddy
	02.30 pm to 03.00 pm	Question & Answer Session
4	03.00 pm to 04.00 pm	Lecture-IV Malnutrition in India: Causes and remedies Dr. Ms. Mahtab S. Hamji



Hydroponic unit installed in the hostel premises of the college



Faculty Development Programme on Hydroponic -2022



Save soil seminar for the MSc students ,Dr Sarah Naheed co ordinator
2023-24



LECTURE SERIES- 2024



Lecture Series Key Note Address

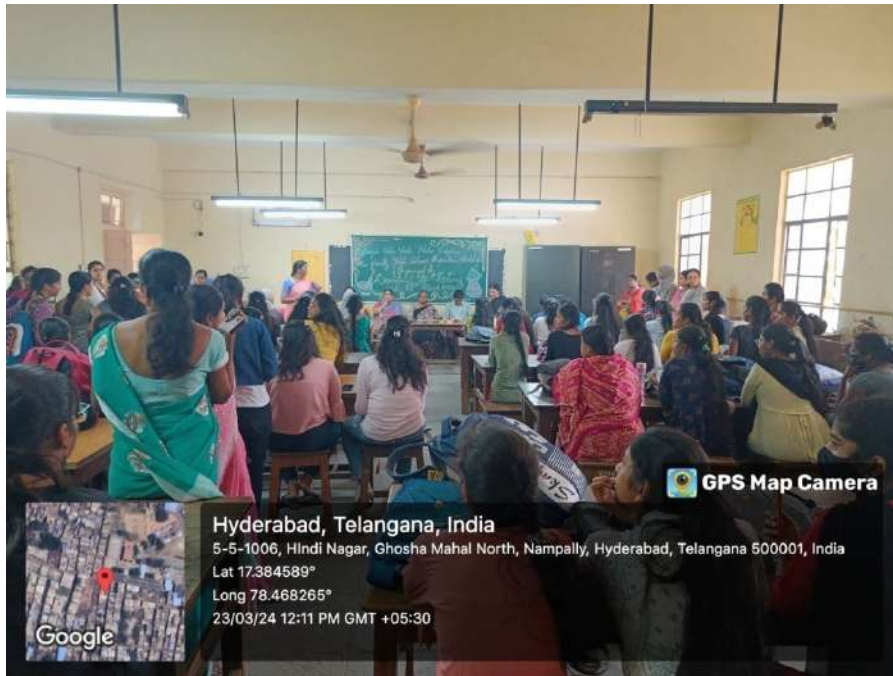
Prof Vijaybhasker Reddy

by Prof Reddy Naik ,

Officer on special duty to

vice chancellor O.U

Safe Holi Colours –a workshop was organized 2024



Almanacs

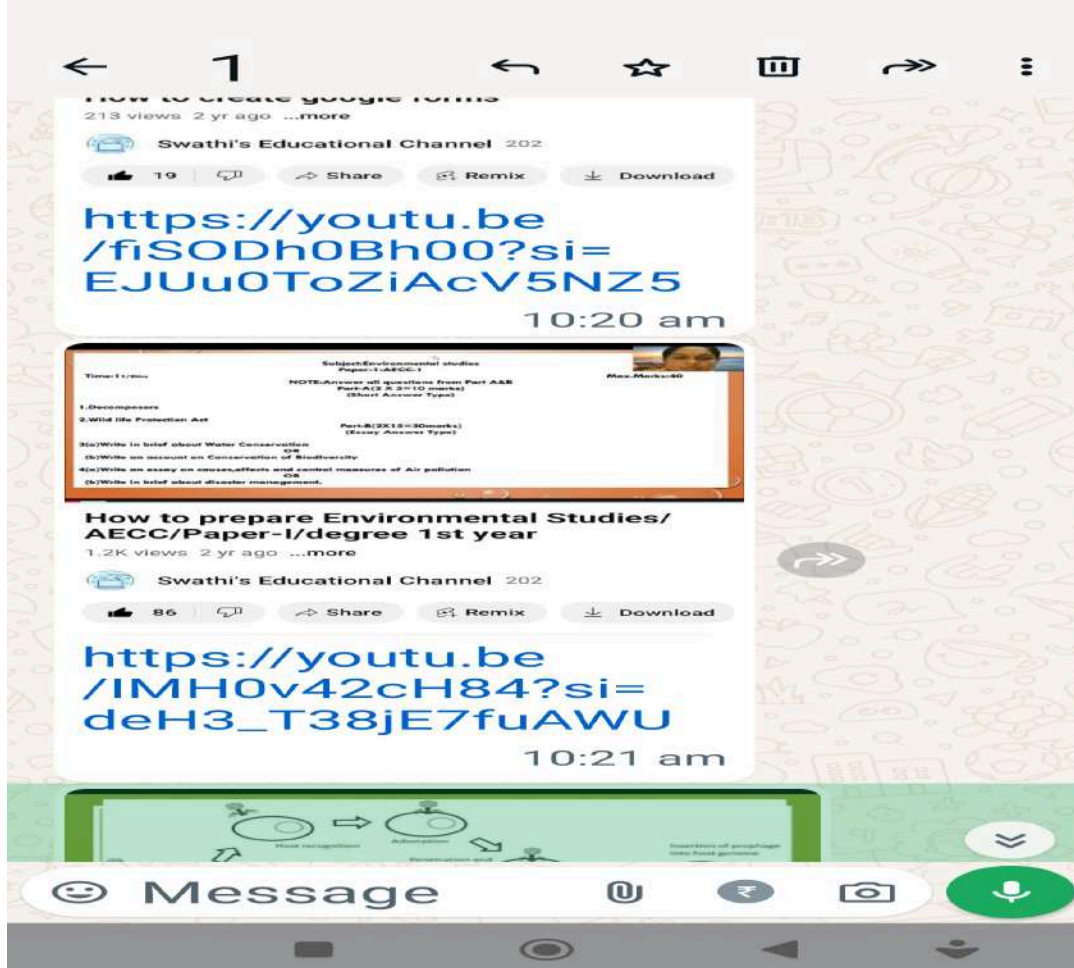
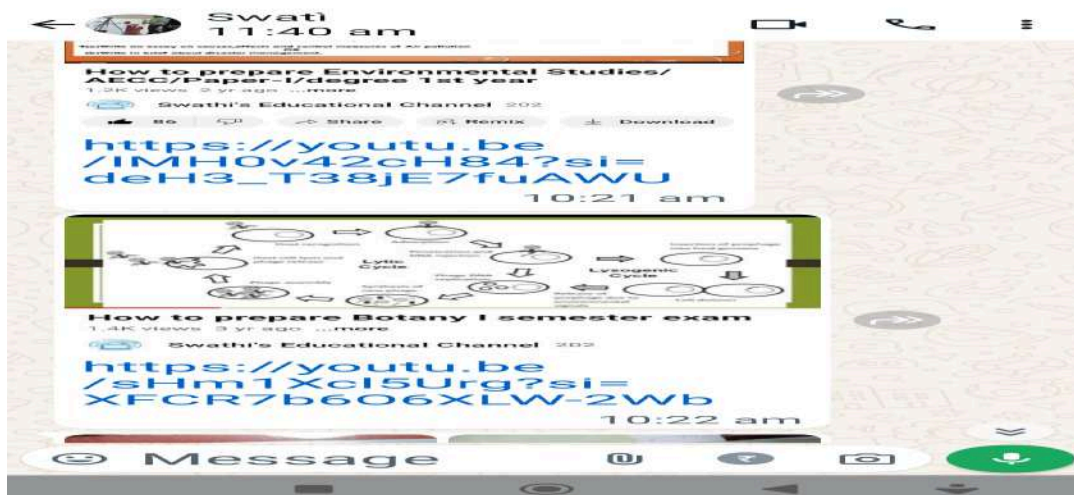
(plates 1 to27)

ICT tools utilized in teaching –learning process

The Information and Communication Technology (ICT) tools in Botany Department include the CPU which is used for department work of writing reports, administrative and clerical work, academic work, using the internet, for emails, and PowerPoint presentations during lectures. In this way, the CPU is used in multiple ways for teaching and learning. The department also has a printer which is used for printing academic-related material daily. The available online facility is used for teaching purpose and as an interface for some advanced ecology sensors during practical and project work. There one microscope equipped with attachment to computer helping in microscopic photography. The free software program "Plantnet" is used for plant identification. The computers have licensed windows and antivirus loaded. The facility of internet and wifi is a great benefit, as through which the mobile phones, and computers can also be connected to the internet easily. The computers have a high storage capacity of 1TB. The faculty uses these resources for preparing PPT, studying and using research papers, Moodle for conducting CIA exams, small MCQ exams, open paper test; google classroom for submission of assignment and answering student's queries and by emails through it. Excel is used for statistical problem solving and condensing of statistical data and graph preparation. The zoom and google classroom is used for online classes. PDF of all topics covered are shared with students

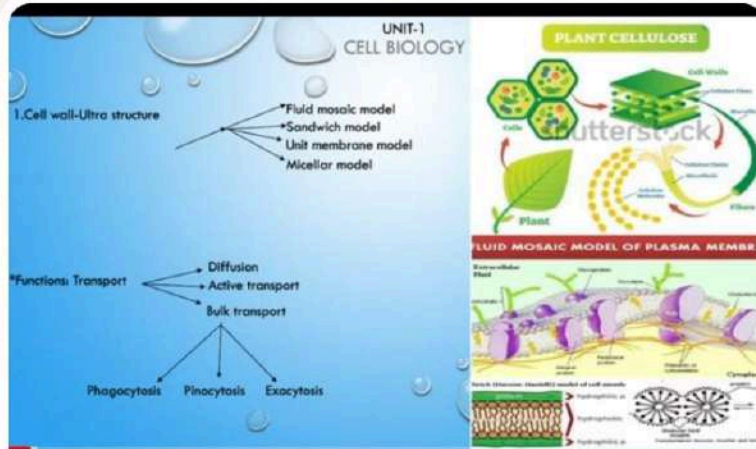
The details of various ict methods of teaching by the faculty members is given below:

S no .	Name of Faculty member	No. of Zoom /Google classes	No. of online tests	No. of LCD classes	No. of plants identified by Plantnet App	No. of PDFs shared	Youtube channel
1	Dr Sarah Naheed	55	6	21	20	55	---
2	Dr M Vijaylalitha	55	6	23	11	55	--
3	Mrs J Joythi	60	6	20	14	60	--
4	Mrs GSumalata	61	6	22	20	61	--
5	Mrs NSwathi	62	6	20	12	62	Swathi's Educational Channel** *





2



Important points for cell biology of IV semester UG.

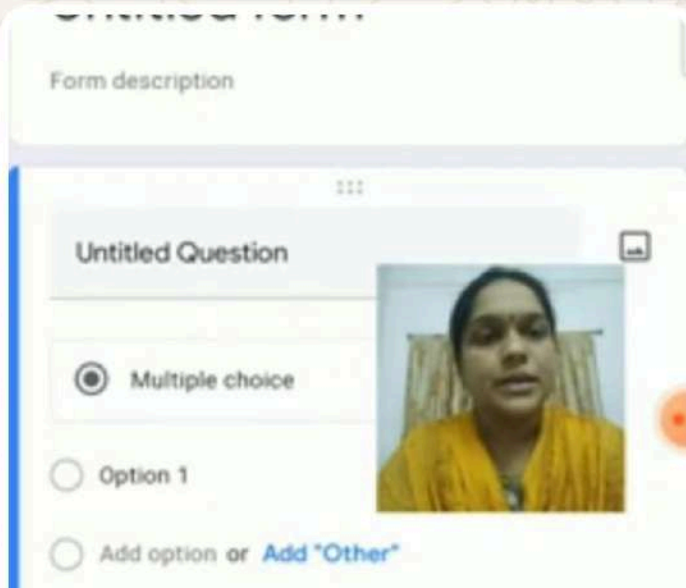
445 views 2 yr ago ...more



Swathi's Educational Channel 202

<https://youtu.be/wJ5U7bZ-hc4?si=DRPmDeRIgNW67TRC>

10:15 am





Tips and tricks for scoring good marks in exams

This video helps you to make ...
youtu.be

https://youtu.be/_FsBpEU41I0?si=ZXfucki7k0D4IDox

10:12 am



Faculty members on panel of examiners in Universities&colleges

Dr Sarah Naheed

- 1.Maulana Azad National Urdu University
- 2 .Nizam College,Osmania University
- 3.Mahila Vishwavidhyalaya,Koti
- 4.Andhra Mahila Sabha college

Dr T Sudha Rani

- 1.Mahila Vishwavidhyalaya,Koti

Dr Vijaya Lalitha

- 1.Andhra Mahila Sabha college
- 2.AV college

Departmental Best Practices

Best practice -I

Soil-less cultivation of plants hydroponically

Goal:

1. To cultivate plants organically without use of chemicals
2. To grow plants without use of soil medium
3. To disseminate the information to farmers and society
4. To provide green herbal spices to hostel food

The context:

The college is situated in the urban area. Most of the students are from district areas having experience in agriculture and farming. The cultivation of plants in the soil less medium, that is water and coco-peat is a fascinating experience for students. Such a cultivation not only trains the students in this technique but also provides fresh vegetables and herbal spices to the hostel food of college. This practice helps the use of chemical fertilizers and grows plants organically.

The Practice:

It is an agricultural technique where plants are grown in a nutrient solution in the complete absence of soil. Here, the soil is substituted by sterile mediums such as rockwool, vermiculite, sand, gravel, clay pellets, perlite to give stability to roots. Nutrients are passed through roots differently, based on the type of hydroponic system used, oxygen is pumped through, pH level is regulated and sufficient light is provided to carry out photosynthesis. In the areas where natural light is not available, artificial lighting is provided. It is an innovative method of farming and is being widely used now for food production.

Evidence of success:

Local cultivation units, farmers and students were given demonstration, training and workshops of this method of cultivation. The domestic small unit cultivation of herbal vegetables hydroponically was demonstrated in local areas by outreach programmes.

Best practice -II

Horticultural grafting techniques in plant breeding

Goal:

5. To cultivate improved quality plants organically without use of chemicals
6. To grow hybrid plants by grafting techniques
7. To disseminate the information to farmers and society

The context:

The college is situated in the urban area. Most of the students are from district areas having experience in agriculture and farming. The cultivation of plants by grafting techniques is an innovative training to students. Such a cultivation not only trains the students in this technique but also develops improved variety of plants..

The Practice:

It is an agricultural grafting technique where plants are grown by grafting techniques. is a method of asexual plant propagation that joins plant parts from different plants together so they will heal and grow as one plant. This technique is used to propagate plants that do not root well from cuttings, to utilize superior root systems, or to maintain clonal production is being widely used now for food production.

Evidence of success:

Local cultivation units ,farmers and students were given demonstration ,training and workshops of this method of cultivation. The domestic small unit cultivation of fruit trees by grafting was demonstrated in local areas by outreach programmes .

Future plans and initiatives

1. Collaborative with Research Labs and Institutions (Maulana Azad National Urdu University ,Pure Earth foundation ,Save soil foundation and Telangana Science Fair Academy to provide interdisciplinary knowledge and skills enhancing students team activity to do their project works and publications.
2. Ethno-medicinal studies of various plant species in order to enhance our traditional medicinal system.
3. Pharmacognostic studies. of various locally available medicinal plants
4. Study of biodiversity of endemic plant species
5. Protocol standardization for hydroponic cultivation of plants
6. Establishment of Environmental Protection Cell

Gallery















