

ST. FRANCIS COLLEGE FOR WOMEN - HYDERABAD

ACADEMIC YEAR 2022-23

ANNUAL DEPARTMENT REPORT

NAME OF THE DEPARTMENT: Botany

Faculty Profile

| S..No. | Name | Qualification | Yr. Of Joining | Committees Worked for In the AY 2022-2023 |
|--------|--|---|----------------|--|
| 1 | Ms. Mary Anthony (Asst. Professor & Head) | M. Sc Botany, B.Ed, SLET, PGDIPR, Advance Diploma in German | 2006 | College Council, Natale, Faculty Development Cell, Educational study tours |
| 2 | Dr. Ch. Basanti (Asst. Professor) | M.Sc, M. Phil, Ph.D Botany | 2015 | Reporting for events, disaster management & Discipline committee |
| 3 | Mr. Anil Kumar (Lecturer) | M. Sc Botany | 2022 | - |

1. WORKSHOPS CONDUCTED

| S. No | DATE | TOPIC | SPONSORSHIP DETAILS (if any) | PARTICIPATION DETAILS - LIST (Name, College/Institution) | NO. of PARTICIPANTS (Staff & students separately to be mentioned) |
|-------|---------|---|------------------------------|--|---|
| 1 | 27.7.22 | Start your green journey – 5 Green Alternatives | - | Students of B. Sc IIIA/N | Students – 33 Faculty - 03 |
| 2 | 17.8.22 | Workshop on Herbarium Techniques | - | Students of B. Sc II A/N & IIIA/N | Students – 89 Faculty - 02 |
| 3 | 29.3.23 | Gardening workshop | - | Teaching faculty | Faculty - 17 |

2. SEMINARS CONDUCTED - None

| S.NO | DATE | TOPIC | SPONSORSHIP DETAILS | PARTICIPATION DETAILS -LIST (Name, College/Institution) | No of Participants (Staff & students separately to be mentioned) |
|------|------|-------|---------------------|--|--|
| | | | | | |

2. WORKSHOP / SEMINAR ATTENDED/ PAPERS PRESENTED/PUBLISHED BY FACULTY MEMBERS

| S.N O | DATE | TOPIC | ORGANISED BY (Name of the college/Institution & Department) | PARTICIPATION DETAILS -LIST | PAPERS PRESENTED Title, Author details | PAPERS PUBLISHED Article Name, Author details Journal /Book details/ISBN/ ISSN No. |
|-------|--------------------|--|---|---|--|--|
| 1 | 23.5.22 28.5.22 | Hands-on Training Programme in Plant Molecular Techniques | Agri Biotech foundation, Rajendranagar | Ms. Mary Anthony | - | - |
| 2 | 3.6.22 | Seminar Faculty on Health in your Hands –Smile Meditation, SUJOK, Sam Won Dong, by Mamta Agarwal | St. Francis College for Women, Begumpet | Ms. Mary Anthony, Dr. Basanti Ch & Mr. Anil | - | - |

| | | | | | | |
|---|---------------------|---|---|---|---|---|
| 3 | 17.8.22 | One Day National Seminar on 'Strategic Planning and Deployment in Higher Educational Institutions | St. Francis College for Women, Begumpet | Ms. Mary Anthony | - | - |
| 4 | 17.10.22 – 30.10.22 | Online Refresher course in Life sciences | HRDC, University of Hyderabad | Dr. Basanti Ch | - | - |
| 5 | 1.11.22 – 30.11.22 | Faculty Induction Programme | HRDC, University of Hyderabad | Ms. Mary Anthony | - | - |
| 6 | 3.12.22 | Online Workshop on E – content development | St. Francis College for Women, Begumpet | Ms. Mary Anthony, Dr. Basanti Ch & Mr. Anil | - | - |
| 7 | 31.3.23 | One day seminar on Outcome Based Education | St. Francis College for Women, Begumpet | Ms. Mary Anthony, Dr. Basanti Ch & Mr. Anil | - | - |

Photographs attached as links above

4. GUEST LECTURES ORGANISED

| S.NO. | DATE | TOPIC | SPEAKER DETAILS | OBJECTIVE OF THE GUEST LECTURE | NUMBER OF PARTICIPANTS (Staff & students separately to be mentioned) |
|-------|------|-------|-----------------|--------------------------------|--|
|-------|------|-------|-----------------|--------------------------------|--|

| | | | | | |
|---|---------|---|----------------------------|--|-------------------------------|
| 1 | 27.7.22 | Start your green journey – 5 Green Alternatives | Ms. Saritha O. T | To understand the benefits of green alternatives like - menstrual cups, cloth bags, bioenzyme uses etc | Students – 33 Faculty - 03 |
| 2 | 17.2.23 | Career guidance | Dr. Sravanti Vaidya (CCMB) | To help students understand the current career opportunities available in the field of life sciences | Students - 81 Faculty - 03 |
| 3 | 17.2.23 | Alumnae interaction | Ms.Rithika Fernandez | Career guidance | Students - 25 Faculty - 02 |

5. INDUSTRY -ACADEMIA CONNECT INITIATIVES - None

Report on

Any MOUs signed by the Department

Guest talk by Industry experts (Mention here even if it is already written in point 4)

6. FACULTY ACHIEVEMENTS

| SL.NO. | NAME OF FACULTY | 1.Awards received 2.Completed Ph.D., M.Phil., NET, TSSET. 3.Book Published 4.Any other (Major research /Minor research completed) | 1.Awarding Institution and award details (Date, Place, Title) 2.Title of the PhD Work, Month, Year University details 3.Publication details 4.Relevant details |
|--------|------------------|--|---|
| 1 | Ms. Mary Anthony | ‘A’ grade in FIP course | - |
| 2 | Dr. Basanti | ‘A’ grade in Refresher course | - |
| 2 | Ms. Mary Anthony | Resource person for FIP session | - |

7. STUDENT PARTICIPATION / ACHIEVEMENTS

| SL.NO | NAME OF THE STUDENT | CLASS | PARTICIPATION IN (Seminar/Workshop/Competition details) Date, Host College/Organisation details, Name of the seminar/workshop/competition | AWARDS RECEIVED Awarding Institution and award details (Date, Place, Title) | PUBLICATIONS Article Name, Author details, Journal /Book details/ISBN/ISSN No. |
|-------|----------------------------------|-------------|--|--|---|
| 1 | Sakshi Mohan Lal | B. Sc III N | - | Won Rolling Trophy for securing highest marks in Botany | - |
| 2 | Mercy Lydia | B. Sc IIA | Pictionary (Jig saw Puzzle) | First prize St. Pious X Degree & P.G college for Women 5.8.22 – 6.8.22 | - |
| 3 | Manogna Dagiri | B. Sc IIA | Pet show | First prize St. Francis College for Women 16.9.22 | - |
| 4 | Joanna Christine | B.Sc IIIA | National level quiz | 95% score Women-Empowerment cell, Govt. Degree college, Warangal 16.8.22 | - |
| 5 | Pari Rani | B.Sc IIIA | II Prize in Floral fascinator competition | Dept. of Botany, St. Francis College for Women 12.1.23 | - |
| 6 | J. Keerthana | B.Sc IIIA | Participated in Seminar on Role of digital marketing in Leveraging the business | Digital Nest Educon Pvt. Ltd. 30.8.22 | - |
| 7 | Joanna Christine | B.Sc IIIA | Participated in online quiz on Azadi ka amruth mahotsav | St. Francis College for Women 15.8.22 | - |

| | | | | | |
|----|---|-----------|--|---|--|
| 8 | Joanna Christine | B.Sc IIIA | Participated in International workshop on – ‘7 secrets to mastering effective communication skills in English’ | Research Foundation India 9.10.22 | - |
| 9 | Joanna Christine | B.Sc IIIA | Participated and presented paper in National seminar on – ‘Impact of covid on informal economy of Telangana’ | Loyola Academy degree and PG college 29 – 30.9.22 | Presented paper on – Migration in India and the impact of lockdown on migrants |
| 10 | Pari, Joanna, Harshita, Devisri, Shireen, Shalini, Tanya | B.Sc IIIA | Participated in Live Crib competition during Natale | St. Francis College for Women 21.12.22 | - |
| 11 | Veena, Salomi praharsha, Savitha, Srikari, Mercy, Meghana, Manogna, Aaisha, Zara, Madeeha | B.Sc IIA | Participated in Live Crib competition during Natale | St. Francis College for Women 21.12.22 | - |
| 12 | Veena | B.Sc IIA | Participated in Floral fascinator competition | Dept. of Botany, St. Francis College for Women 12.1.22 | - |
| 13 | C. Darshana | B.Sc IIIN | Participated in Floral fascinator competition | Dept. of Botany, St. Francis College for Women 12.1.22 | - |
| 14 | Ayesha | B.Sc IIIN | Participated in Floral fascinator competition | Dept. of Botany, St. Francis College for Women 12.1.22 | - |
| 15 | Angela Shresta | B.Sc IIIN | Inter college Choir competition | I prize St. Ann’s college, St. Joseph’s college & Holy family III prize in | - |

| | | | | | |
|----|----------------|------------|--|--|--|
| | | | | Little flower Degree college | |
| 16 | Sahdia Begum | B. Sc IIIN | College day - Gold medal for the most active student in curricular and co-curricular activities of Botany department | Dept. of Botany, St. Francis College for Women | |
| 17 | Zainab | B. Sc IIIN | I prize in Intercollege poster competition | Sarojini Naidu Vanita Mahavidyalaya | |
| 18 | Saleha Khatoon | B. Sc IIIN | Earth day 2021 - National level Poster contest - Awarded best conceptual poster | | |
| 19 | Harini Yadav | B. Sc IIIN | II prize in group dance during MegaFest - 2022 | Government city-college, Nayapul, Hyderabad. | |
| 20 | Ayesha | B. Sc IIIN | I prize in Intercollege poster competition | Sarojini Naidu Vanita Mahavidyalaya | |

Photographs attached as links for prize winners

8. SOCIAL OUTREACH INITIATIVES

| SL.NO | DATE | PLACE OF VISIT | ACTIVITIES CONDUCTED | PARTICIPATING STUDENT DETAILS | ACCOMPANYING FACULTY |
|-------|---------|--|---|-------------------------------|----------------------|
| 1 | 6.12.22 | Asha Kuteer Home for the Blind- Boys | Christmas carols & Groceries distribution | B.Sc IIIA BZC | Dr. Basanti |

- [Social Outreach - Extension Activity of the Department](#)

9. FIELD VISITS ORGANISED

| SL.NO. | DATE | PLACE OF VISIT | PARTICIPATING STUDENT DETAILS | ACCOMPANYING FACULTY |
|--------|--------|--------------------------------------|-------------------------------|-----------------------------------|
| 1 | 1.9.22 | NIPHM, Rajendranagar | Students of B.Sc III A/N | Ms. Mary Anthony & Mr. Anil Kumar |

10. STUDENT CLUB ACTIVITIES HOSTED BY DEPARTMENT STUDENTS (IF RELEVANT)

| SL.NO. | DATE | ACTIVITY | PARTICIPATED BY | TYPE Departmental/College/Intercollegiate -Local/Intercollegiate - National |
|---|---------|-----------------------------------|-------------------------------------|--|
| Sombrero Fiesta' 23 – Department Fest under Diamond Jubilee Celebrations | | | | |
| 1 | 10.1.23 | Zero cooking | Teaching faculty | Intracollegiate |
| 2 | 12.1.23 | Floral fascinator | Students | Intercollegiate |
| 3 | 12.1.23 | Ikebana with wild | Students | Intercollegiate |
| 4 | 13.1.23 | Kite flying | Teaching and Non – teaching faculty | Intracollegiate |
| 5 | 19.1.23 | GLEE 2023 | Students | Spectrum Club |

11. CAPACITY BUILDING PROGRAMME FOR NON-TEACHING STAFF ORGANISED - Department is not allotted for CBP this year

| S..No. | Date | Activity | Non-Teaching Category | No. Of Participants |
|--------|------|----------|-----------------------|---------------------|
| 1 | | | | |

- **Attach detailed report with photographs**

12. FACULTY BONDING PROGRAMME ORGANISED

| S.No. | Date | Activity | Venue | No. Of Participants |
|-------|------|----------|-------|---------------------|
| | | | | |

| | | | | |
|---|----------|-----------------------------|-----------------------|---|
| 1 | 25.11.22 | Group lunch | Department staff room | 8 members from the departments of Botany, EVS and Nutrition |
|---|----------|-----------------------------|-----------------------|---|

13. Student Projects

- [DSC 101 – Practical project topics](#)
- DSC 201 – Visit to Rashtrapathi Nilayam / Botanical gardens / Nursery
- [DSC 301 – Practical project topics](#)
- [DSC 401 – Ecology project topics](#)
- [DSC 501 – Practical project topics](#)
- [DSE 601 – Practical project topics](#)
- [DSE 603 – Practical project topics](#)

1. **Workshops organised**
 - A. **Workshop report on “Start your green journey – 5 Green Alternatives”**
 - **Brochure**



- **Resource person details** – Ms. Saritha O. T
- **Workshop objectives and Expected Outcomes**

Objectives

Highlighting the uses of green alternatives like –

1. Menstrual cups instead of using sanitary pads
2. Using cloth bags in place of plastic bags / covers
3. Using towels or handkerchief instead of tissue – to reduce deforestation
4. Nurturing and taking care of plants
5. Hands on training in Bioenzyme preparation using citrus peels, jaggery & water and uses

Expected outcome

To create environmental awareness among students by explaining few green alternatives that can be used in daily living.

Report

The workshop was organized by the Department of Botany for the final year students of BZC and ANBC and the faculty members. The number of participants was 33. The resource person

explained in detail the benefits of using green alternatives like menstrual cups, cloth bags, towels, handkerchief etc. which in turn protect the environment. She also gave hands on training on **Bioenzyme** preparation using citrus peels, jaggery and water.

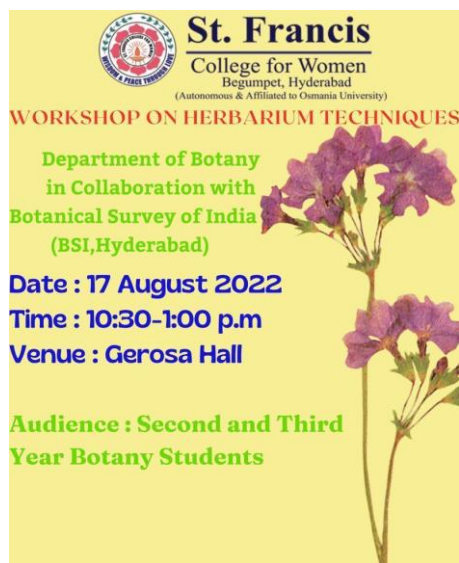
Feedback was also taken at the end of the session and it was well appreciated

Relevant photographs



B. Workshop report on “Herbarium Techniques”

- Brochure



- **Resource person details – Dr. Swamy from BSI**
 - **Workshop objectives and Expected Outcomes**
- Objectives**

1. Concept of herbarium
2. Techniques of preserving the plant specimens
3. Benefits of herbarium
4. Codes for identification

Expected outcome

- As a part of academic curriculum students will get hands on experience on preserving the plant specimens

Report

- The Department of Botany in collaboration with Botanical Survey of India (BSI) conducted a Workshop on Herbarium techniques for the Second and Final Year Botany students on 17th August 2022. The session started by resource person with brief presentation highlighting the concept of herbarium, different systems of plant classifications, major herbariums in India, codes for identifying the herbaria etc. Sir also emphasised on the basic techniques of preserving the plant specimens.

Total number of participants was 89.

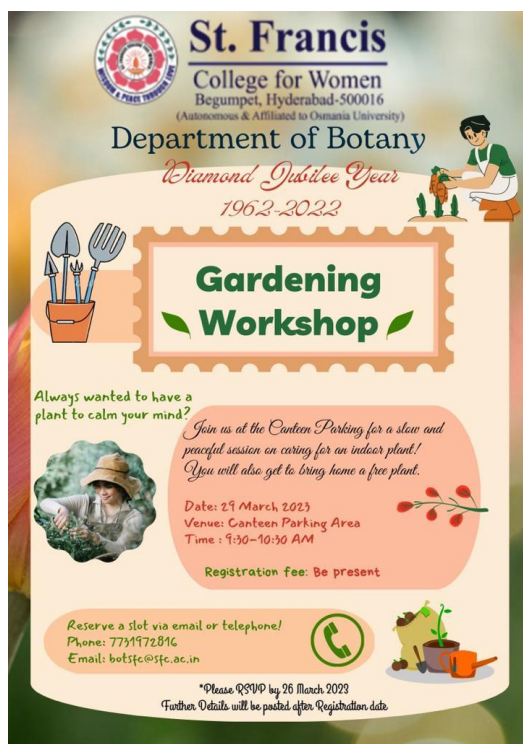
Feedback was also taken at the end of the session and it was well appreciated

Relevant photographs



C. Workshop report on "Gardening"

- Brochure



- **Resource person details** – Ms. Mary Anthony, Head Department of Botany, St. Francis College for Women

- **Workshop objectives and Expected Outcomes**

To give hands on training on:

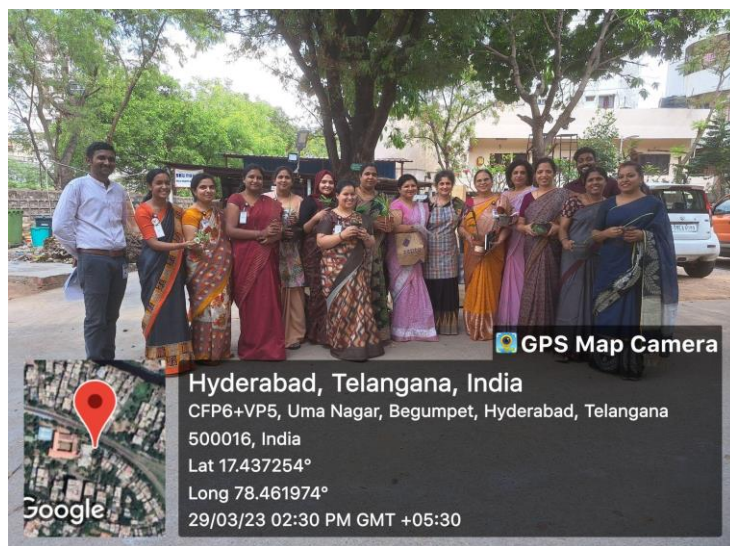
- Maintenance of indoor and outdoor plants
- Care to be taken for hydrophytes, mesophytes and xerophytes
- Need for watering the plants
- Requirement of proper sunlight
- Preparation of good potting mix
- Uses of coco peat etc.

- **Report**

Department of Botany as a part of the Diamond Jubilee Year (1962-2022) culminated the yearlong Commemoration by conducting a Gardening Workshop for the Teaching Faculty of the college on 29 March 2023 with Ms.Mary Anthony, Head, Department of Botany as the Resource Person assisted by Dr.Basanti and Mr.Anil Kumar. The areas covered during the Workshop were Potting Mix, Watering and Pest Management and participants got to take a plant of their Choice.

Feedback was taken from the participants and it was well appreciated.

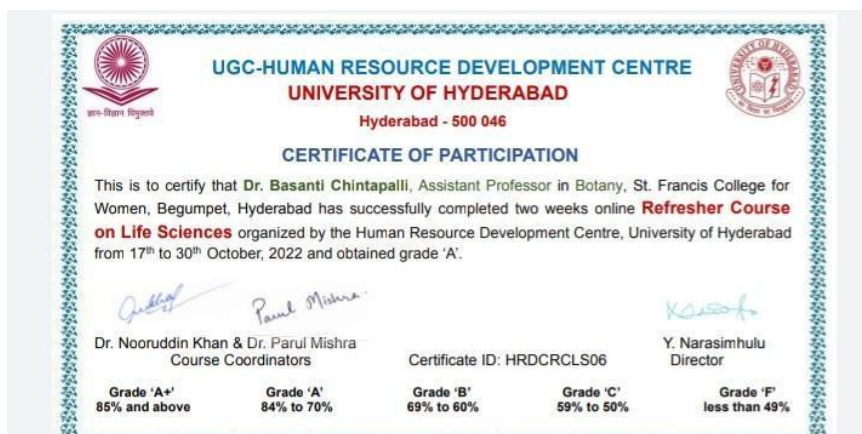
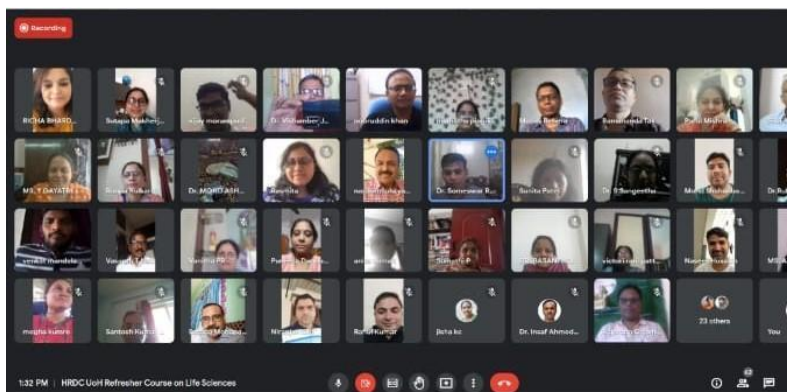
- **Relevant photographs**



2. **Workshop/Seminars attended**

Relevant photographs

- Online refresher course in life sciences by HRDC Hyderabad – Dr. Basanti



● Online FIP by HRDC Hyderabad – Ms. Mary Anthony



● Hands-on Training Programme in Plant Molecular Techniques – Ms. Mary Anthony



● One Day National Seminar on ‘Strategic Planning and Deployment in Higher Educational Institutions – Ms. Mary Anthony

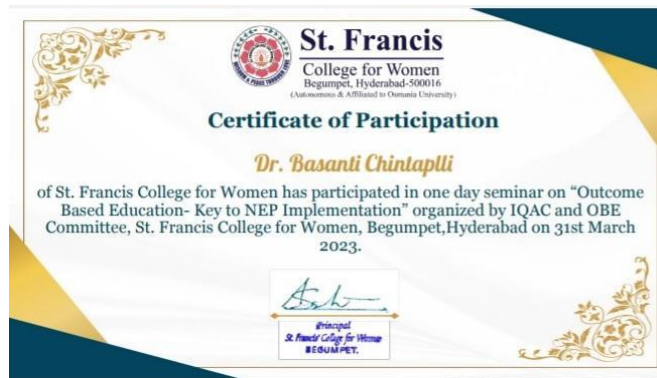


● Online workshop on E-content development – Ms. Mary Anthony, Dr. Basanti & Mr. Anil





- One day Seminar on Outcome Based Education



4. Guest Lectures organised

a. Career Opportunities

- Brochure



- Resource person details: Dr. Sravanti Vaidya (CCMB)
- Objectives and Expected outcomes

To create awareness among students on

1. Future Education System
2. Central Government Schemes available for Higher Education
3. Importance of Communication and Interpersonal Skills
4. SWAYAM Courses

5. Appearing for Competitive exams

- **Report**

The Department of Botany organized a guest lecture on topic “**Skills, Colleges and Allied Fields in Life Sciences**” on 17.2.23 by Dr. Sravanti Vaidya from CCMB for the second and final year students of B. Sc BZC and ANBC in Gerosa hall from 9:00 to 10:30am. The speaker focused her talk on the current available career opportunities that can be pursued by students of life sciences. 81 students with 3 faculty members participated in the lecture.

Dr. Sravanti Vaidya explained about the importance and need of the Future Education System and the steps to be taken to pursue higher education. She also focused her talk on available Central Government Schemes including the Girl and women Beneficiary Schemes offered by the Department of Science and Technology.

The talk also covered various aspects like – the importance of Communication and Interpersonal Skills, SWOT analysis, Skill analysis, SWAYAM – NPTEL courses and competitive exams like AIIMS, BiSEP, TIFR, IBAB, BCIL etc.

The talk concluded with a question-and-answer session and the speaker was pleased to clear the queries of the audience. The students had a good learning experience.

- **Relevant Photographs**





b. Alumnae Interaction

- **Resource person details: Ms. Rithika Fernandez**
- **Objectives and Expected outcomes**

1. Importance of Women Empowerment
2. To throw light on available Career opportunities for graduate students
3. Importance of available e – resources

- **Report**

The Department of Botany organized an Alumnae Interaction Session for Final year Students of ANBC by Ms. Rithika Fernandez on 17.02.2023 in the Botany laboratory. The session was attended by 26 students and 2 faculty members.

Ms. Rithika focused on major e- resources such as SciHub, MoEFCC, PlantNet, Hyderabad UrbanLab, Green Humour, QGIS, Tree of Life Web Project, Sanctuary Asia, Biodiversity Heritage Library, IISc, CBCC etc.

She also emphasised on various career aspects that can be pursued by Botany graduates.

Feedback was also taken at the end of the session and it was well appreciated

Relevant Photographs



6. FACULTY ACHIEVEMENTS

Ms.Mary Anthony, Head, Department of Botany, as a part of the Faculty Development Cell conducted a Session for the Teaching Staff with Less than Two Years of Service in the college on Faculty Development Initiatives at SFC on 28 February 2023. She gave an insight into the support provided by the Management in areas pertaining to Conferences, Scholarships and Student Concession and the method of compilation of the above information for the NAAC SSR.

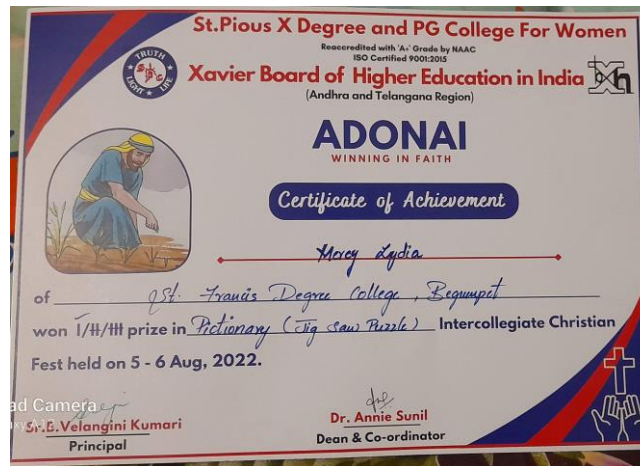


7. STUDENT PARTICIPATION / ACHIEVEMENTS

Sakshi Mohan Lal - Rolling Trophy winner



Mercy Lydia certificate – Jigsaw puzzle



Manogna Picture – Pet show



Joanna Christine certificate – National level quiz



Pari Rani certificate – Floral Fascinator



8. SOCIAL OUTREACH INITIATIVES

- Report

All the students of B.Sc. IIIA visited the blind home located near Begumpet Airport. The staff and residents of the home were greeted with warm messages and Christmas carols. Snack items like cool drinks, cakes and chips were distributed among the people present there. All the people of the home extended a warm welcome to the students. They all are highly talented and conversed well. 150 rupees were collected from each student. The grand total was around ₹ 6,900/-. Various grocery items like groundnuts, cooking oil, etc. were collected. The organization currently lodges around 30 visually-impaired male persons. On the day of the visit, around 15 persons were present. All of them benefitted from this.

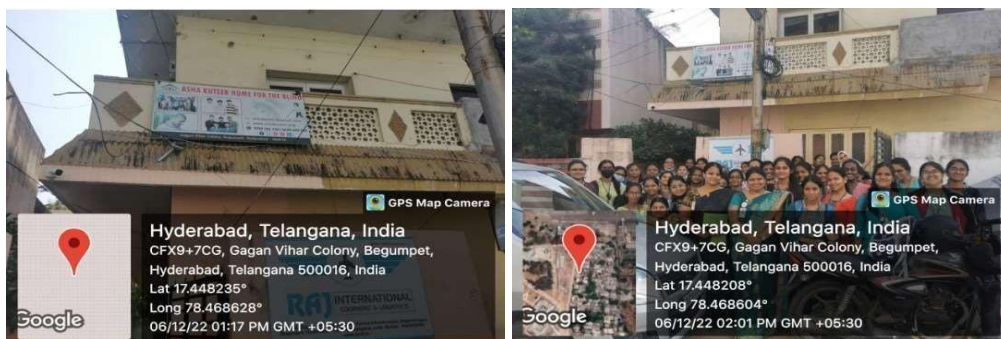
● **Experiences of participating students**

“This was a great experience, which is not often seen in many places. Interacting and talking with the residents of the foundation was very impactful. It taught how to be hopeful, kind and caring always towards others, especially impaired people.”

● **Any comments by School/NGO official with their Name, designation & signatures**

The staff and residents were very happy because of this simple act of kindness. Taking out time to visit and interact with the visually-impaired people there conveyed a message of hope. They thanked the students as well as the class mentors- Dr. Basanti and Ms. Sheila for their generosity.

● **Relevant photographs**





- **Social outreach - Extension Activity**

The Inaugural of the Diamond Jubilee Year was held at Filmnagar Government School by providing Free academic Assistance to the Underprivileged urban Government High school students in collaboration with ISHVAK. Final year students of BZC are engaged in this social cause on weekends and this assistance was continued.



9. Field visits

● **Report**

Department of Botany, St Francis College for Women, conducted a study trip to National Institute for Plant Health Management (NIPHM), on September 1, 2022. The trip was for the 3rd year BZC and ANBC students. The students visited Cell and Molecular biology Laboratories, Entomology and Nematology Laboratories, Vermicompost Unit and Poly House with Hydroponic Units and got to learn about the areas of research related to Plant Health and soil Health as they interacted with the highly passionate researchers of NIPHM. The students also visited the Polyhouse wherein they observed and made note of the crops grown and measures adopted under controlled conditions with Integrated Pest Management for Healthy crops. Hydroponics unit growing leafy greens was also shown. The scientist also explained the failure of Polyhouse Cultivation in Telangana owing to Nematode infestation. Students also visited the biopesticides and liquid biofertilizers production centres.

● **Objective of the visit**

- To explore research laboratories in the institute
- To understand various pest management practices to reduce crop loss
- Effective use of Biopesticides and Biofertilizers
- Role of nematode infestation and plant health


● **Outcome of the visit**

- Planning for career options in the field of Plant health management

● **Field visit experience description**

Feedback of the students was taken and the students found it informative and well organized

● **Relevant photographs**




St. Francis
College for Women
Begumpet, Hyderabad
(Autonomous & Affiliated to Osmania University)

Study Trip to
NIPHM, Rajendranagar
National Institute of
Plant Health
Management
by
Department of Botany
FOR

Botany
Final Year
Students

Date : September 1, 2022




10. Department Activities – Sombrero Fiesta’ 23 Department fest under Diamond Jubilee celebrations

● **GLEE 2023 - Student participation**

Student Project list

| S. No | Roll. No | Name | Combination | Topic | |
|-------|--------------|------------------|-------------|----------------------|-------------------------------------|
| 1 | 121321041001 | Aaisha | BZC II yr | Plant cell structure | |
| | 121321041027 | Zara | | | |
| 2 | 121321041025 | Meghana | | BZC I yr | Microorganisms |
| | 121321041013 | Mercy | | | |
| 3 | 121322041016 | Sriya | BZC II yr | | Ecological pyramids |
| | 121322041004 | Ramya Krishna | | | |
| 4 | 121321041009 | Veena | | BZC I yr | Effect of Greenhouse on temperature |
| | 121321041014 | Manogna | | | |
| 5 | 121321041007 | Samsitha | BZC II yr | | Osmosis |
| | 121321041021 | Savitha | | | |
| 6 | 121321041020 | Praharsha | | BZC II yr | Osmosis |
| | 121321041024 | Sr. Sujata | | | |

- **Zero cooking**

- **Report**

The Department of Botany organized a Zero cooking competition for teaching staff on 10.01.2023 from 1:00 to 2:00 pm in the Botany laboratory under Diamond Jubilee Year celebration. The staff participated with great enthusiasm and prepared a variety of dishes like – winter bullets, Fru – Nut Bowl, veg – o – ddles, dry fruit laddos, sandwiches etc.



- **Relevant photographs**

- **Floral Fascinator**

- **Report**

The Department of Botany organized Floral Fascinator on 12.01.2023 from 09:00 to 10:15am in Botany laboratory under Diamond Jubilee Year Celebrations. The students from different colleges participated with great enthusiasm and prepared different designs of floral Fascinators. The total number of participants for Floral Fascinator is 14.

➤ **Relevant photographs**





- **Ikebana with wild**

- **Report**

The Department of Botany organized Ikebana with Wild competitions for students on 12.01.2023 from 1:00pm – 1.30 pm in Botany laboratory under Diamond Jubilee Year Celebrations. The students from different colleges participated with great enthusiasm and prepared different different models of Ikebana. The total number of participants is 17

Relevant photographs





- **Kite Flying**

- **Report**

The Department of Botany conducted a Kite Flying competition for the staff on 13 January 2023. The Staff participated with gusto and decorated the blue skies with their kites.

- **Relevant photographs**





12. Faculty bonding Program

● Report

The faculty of Botany, E.V.S and Nutrition departments organised group lunch activity in the department staff room on 25th of November, 2022 as a part of Faculty bonding program and spent quality time with each other.



13. Commemorative day

- Commemorating the Diamond Jubilee year (1962 – 2022) of the Department, Floral festival – “Sombrero Fiesta’23” was organised by the department during which many competitions were conducted for faculty and students across colleges from 10 January 2023 – 13 January 2023.

14. Student Projects

- **DSC 101 – Practical project topics assigned**

| DSC 101 - Practical Projects - 10 Marks | | | |
|--|-----------------|------------------|---|
| Project report Submission date - 31.10.22 | | | |
| S.No. | ROLL NO. | NAME | TOPICS |
| 1 | 121322041001 | G TANYA REDDY | Collection, identification and description of algal samples from nearby waterbodies |
| 2 | 121322041002 | ITHA ANJALI | |
| 3 | 121322041003 | K JYOTHIRMAYI | |
| 4 | 121322041004 | M RAMYA KRISHNA | |
| 5 | 121322041005 | NAAZ | Identification and description of fungal molds on bread |
| 6 | 121322041007 | P CHARVITHRIKA | |
| 7 | 121322041008 | ROSIE LALVOHBIKI | |
| 8 | 121322041009 | RUMANA FATIMA | |
| 9 | 121322041010 | S PADMINI | Identification and description of any 4 common plant diseases in your locality |
| 10 | 121322041011 | SAI MEGHANA | |
| 11 | 121322041012 | SAMREEN AHMED | |

| | | | |
|----|--------------|----------------------|--|
| 12 | 121322041013 | SANGAM SRILEKHA | Identification and description of bacteria in milk/curd |
| 13 | 121322041014 | SNEHA DASH | |
| 14 | 121322041015 | VADLURI VASAVI | |
| 15 | 121322041016 | VEERA SRIYA | |
| 16 | 121322041017 | JUPALLI HARIKA | |
| 17 | 121322055001 | ASHIYA SAMREEN | To observe Yeast cells & their reproduction by preparing a temporary slide |
| 18 | 121322055002 | AYESHA SIMIN | |
| 19 | 121322055003 | BELINDA | |
| 20 | 121322055004 | B TEJASWINI | |
| 21 | 121322055005 | C. APOORVA | To observe any spore stage of Puccinia by of taking a section of infected leaf |
| 22 | 121322055006 | CHALLA SRI SOWMYA | |
| 23 | 121322055007 | C DAKSHAYANI | |
| 24 | 121322055008 | DEEKSHITA C | |
| 25 | 121322055009 | D SATHVIKA | Collection, identification and description of algal samples from nearby waterbodies |
| 26 | 121322055010 | G P NAMRATHA | |
| 27 | 121322055011 | GANTHA NAVYASRI | |
| 28 | 121322055012 | GORIGE SWATHI | |
| 29 | 121322055013 | G ANNIE PEARL | Identification and description of fungal molds on bread |
| 30 | 121322055014 | J AASHRITHA | |
| 31 | 121322055015 | KHATIJA FATIMA | |
| 32 | 121322055016 | KOTHA HARINI | |

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|----|--------------|--------------------|--|
| 33 | 121322055017 | LIKITH LEHANTHI | Identification and description of any 4 common plant diseases in your locality |
| 34 | 121322055018 | SAI VARENYA | |
| 35 | 121322055019 | PADALA SREEHITHA | |
| 36 | 121322055020 | P PERSIS ROPEECA | |
| 37 | 121322055021 | R CHRISTINA RACHEL | Identification and description of bacteria in milk/curd |
| 38 | 121322055022 | RENUKA DESHPANDE | |
| 39 | 121322055023 | S.SHRAVANI | |
| 40 | 121322055024 | SANA ZAREEN | |
| 41 | 121322055025 | SANIYA VAISHNAV | To observe Yeast cells & their reproduction by preparing a temporary slide |
| 42 | 121322055026 | SOBIYA SANA | |
| 43 | 121322055027 | SYEDA SAKINA | |
| 44 | 121322055028 | T GRACE MARY | |
| 45 | 121322055029 | UMAIMA AIJAZ | To observe any spore stage of Puccinia by of taking a section of infected leaf |
| 46 | 121322055030 | V ABHINAYASRI | |

● **DSC 301 – Practical project topics**

| S.No. | Roll Number | Project Title |
|-------|--------------|--|
| 1 | 121321041001 | Annona Detailed Description, Economic Importance and Medicinal Uses |
| 2 | 121321041002 | |
| 3 | 121321041004 | |
| 4 | 121321041005 | Cleome Detailed Description, Economic Importance and Medicinal Uses |
| 5 | 121321041006 | |
| 6 | 121321041007 | |
| 7 | 121321041008 | |

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|----|--------------|---|
| 8 | 121321041009 | Murraya Detailed Description, Economic Importance and Medicinal Uses |
| 9 | 121321041011 | |
| 10 | 121321041012 | Crotolaria Detailed Description, Economic Importance and Medicinal Uses |
| 11 | 121321041013 | |
| 12 | 121321041014 | |
| 13 | 121321041016 | Tephrosia Detailed Description, Economic Importance and Medicinal Uses |
| 14 | 121321041017 | |
| 15 | 121321041020 | |
| 16 | 121321041021 | Caesalpinia Detailed Description, Economic Importance and Medicinal Uses |
| 17 | 121321041023 | |
| 18 | 121321041024 | |
| 19 | 121321041025 | Cassia Detailed Description, Economic Importance and Medicinal Uses |
| 20 | 121321041026 | |
| 21 | 121321041027 | |

| S.No. | Roll Number | Project Title |
|-------|--------------|--|
| 1 | 121321055001 | Acacia Detailed Description, Economic Importance and Medicinal Uses |
| 2 | 121321055002 | |
| 3 | 121321055003 | |
| 4 | 121321055004 | Albizzia Detailed Description, Economic Importance and Medicinal Uses |
| 5 | 121321055005 | |
| 6 | 121321055006 | |
| 7 | 121321055007 | |
| 8 | 121321055008 | Cucurbita Detailed Description, Economic Importance and Medicinal Uses |
| 9 | 121321055010 | |
| 10 | 121321055011 | |
| 11 | 121321055012 | Coccinea Detailed Description, Economic Importance and Medicinal Uses |
| 12 | 121321055013 | |
| 13 | 121321055015 | |
| 14 | 121321055016 | Coriandrum Detailed Description, Economic Importance and Medicinal Uses |
| 15 | 121321055017 | |
| 16 | 121321055018 | |
| 17 | 121321055019 | Tridax Detailed Description, Economic Importance and Medicinal Uses |
| 18 | 121321055020 | |
| 19 | 121321055021 | |

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| 20 | 121321055022 | Helianthus Detailed Description, Economic Importance and Medicinal Uses |
| 21 | 121321055024 | |
| 22 | 121321055025 | |
| 23 | 121321055026 | Salvia Detailed Description, Economic Importance and Medicinal Uses |
| 24 | 121321055027 | |
| 25 | 121321055028 | |
| 26 | 121321055029 | Ocimum Detailed Description, Economic Importance and Medicinal Uses |
| 27 | 121321055030 | |

● **DSC 401 – Ecology project topics**

1. Transcriptomic changes in plant species as they move from an aquatic habitat to a terrestrial habitat.
2. How species have been discovered since ancient times?
3. The effect of invaders on communities of soil fungi.
4. Climate change's impact on biodiversity (both natural and managed).
5. Discuss the relationships between ecosystems, ecology and environment
6. Discuss the different types of ecology with examples
7. How is the local ecosystem different from the global ecosystem?
8. What is sustainable agroecology?
9. The five reliable methods used worldwide to measure climate change
10. Discuss the genomic basis of plant island syndrome in the giant daises of Darwin
11. Discuss the methods of planning and assessment for sustainable agroforestry in semiarid and humid regions
12. What are the elements in human ecology?
13. Key advantages of the natural green effect.
14. Can we eliminate non-renewable sources of energy? (One of the most pressing ecological problems)
15. The environment liberates itself from toxins in three interesting ways.
16. What is and is causing eutrophication?
17. Discuss the diversity and functioning of an ecosystem
18. Define ecological footprint
19. Let's have a gastric microbiota description.
20. The five major environmental problems that the African savanna faces.
21. These days, how does one market an eco-friendly product? Three ways to make it more sustainable for your house.
22. Describe the seven biomes on the planet
23. What is eco-efficiency?
24. How have magnetotactic bacteria been evolving?

25. Examine the role of diatoms in exploring and explaining challenges in applied ecology Discuss how people use media to understand the challenges of ecology or otherwise
26. Describe how green roofs in homes and offices can reduce the global ecological footprint
27. What are the major causes of eutrophication?
28. Critically examine how water plants can be used to assess the quality of tap water
29. Discuss the significance of the biochemical interactions between humans and plants
30. Effects of social fungal invaders in human communities
31. IUCN Threatened species – 2 Cycads and 2 Conifers
32. Indian Plant Red data Book (At least four Species of Plants)
33. Aberdares Rehabilitation Wall
34. Great Green wall
35. Forest Products
36. Invasive Plants, Pests and Pathogens
37. How does acid rain affect aquatic life?
38. COP
39. Unraveling carbon dynamics in Sphagnum farming
40. Can water quality modify water quantity?
41. Assessment of soil degradation (any local or national example)
42. Impact of Climate change on Groundwater studying parameters of soil and atmosphere.

● **DSC 501 – Practical project topics**

| S.No. | Roll No. | Plant Physiology - Project Title |
|-------|--------------|----------------------------------|
| 1 | 121320041002 | Geotropism |
| 2 | 121320041003 | |
| 3 | 121320041005 | |
| 4 | 121320041006 | Ascent of sap Working model |
| 5 | 121320041007 | |
| 6 | 121320041008 | |

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|----|--------------|--|
| 7 | 121320041009 | Liberation of CO ₂ during Respiration |
| 8 | 121320041010 | |
| 9 | 121320041012 | |
| 10 | 121320041015 | Effects of different wavelenghts of light for photosynthesis |
| 11 | 121320041018 | |
| 12 | 121320041021 | |
| 13 | 121320041022 | Propagate cuttings using root hormones |
| 14 | 121320041023 | |
| 15 | 121320041024 | |
| 16 | 121320041025 | Four Leaves experiment for Transpiration |
| 17 | 121320041026 | |
| 18 | 121320041028 | |

● **DSE 601 – Practical project topics**

| DSE - Cell and Molecular Biology Practical Projects' 20 Batch | | | |
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| BZC | | | |
| S.No. | ROLL NO. | NAME | Project Topic |
| 1 | 121320041002 | Afnan Sami | Gram staining of <i>Lactobacillus</i> |
| 2 | 121320041003 | Bhanupriya B | Observe yeast cells under oil immersion microscope |

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|----|--------------|------------------|--|
| 3 | 121320041005 | Chatla Karuna | Isolation of DNA from banana |
| 4 | 121320041006 | Datla Neha | To observe Metaphase and Anaphase stages of Mitosis from onion root tips |
| 5 | 121320041007 | I.Praharsha | RNA models |
| 6 | 121320041008 | J Keerthana | To observe normal cell, incipient plasmolysis and plasmolysed cell |
| 7 | 121320041009 | Joanna Christine | DNA replication model |
| 8 | 121320041010 | Juveria Salomi | Gram staining of <i>E. coli</i> |
| 9 | 121320041012 | K Harshita | DNA model |
| 10 | 121320041015 | N Devi Sri | Isolation of DNA from orange |
| 11 | 121320041018 | Pari Rani | To observe Anaphase and telophase stages of Mitosis from onion root tips |
| 12 | 121320041021 | P Shireen | Fluid mosaic membrane model |
| 13 | 121320041022 | Shalini | Review on any recent advances in cell biology |
| 14 | 121320041023 | Sneha Benny | Cell cycle model with regulation aspects |
| 15 | 121320041024 | Tanya Robins | Gram staining of <i>Bacillus</i> |
| 16 | 121320041025 | T Supriya | Mitosis model |
| 17 | 121320041026 | Vijayabhargavi S | To observe Metaphase and Prophase stages of Mitosis from onion root tip |
| 18 | 121320041028 | N Veda Samhitha | Protein synthesis model |

| ANBC | | | |
|-------------|--------------|-----------------------|---|
| 1 | 121320055001 | A Angela Shresta | Membrane components model |
| 2 | 121320055002 | Ayesha | Review on any recent advances in cell biology |
| 3 | 121320055004 | Bandari Sony | Ribosome model |
| 4 | 121320055005 | B Prem Nirupama Reddy | Meiosis model |

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|----|--------------|------------------------|---|
| 5 | 121320055006 | C G Prasuna Kumari | To observe Prophase, metaphase and telophase stages of Mitosis from onion root tips |
| 6 | 121320055007 | Chikoti Darshana | Genetic code model |
| 7 | 121320055008 | Chinta Gayathri | RNA polymerase model |
| 8 | 121320055009 | Golla Siri Rajender | Review on any recent advances in cell biology |
| 9 | 121320055010 | Govathoti Sudhitha | Review on any recent advances in cell biology |
| 10 | 121320055011 | Jilla Tejaswini | Gram staining of <i>Lactobacillus</i> |
| 11 | 121320055013 | Kousar Mehnaaz | Observe yeast cells under oil immersion microscope |
| 12 | 121320055014 | Muthyala Vani Priya | Isolation of DNA from banana |
| 13 | 121320055015 | Mylapalli Sravani | To observe Metaphase and Anaphase stages of Mitosis from onion root tips |
| 14 | 121320055018 | Preethi Joel Matta | RNA models |
| 15 | 121320055019 | R Gayathri | To observe normal cell, incipient plasmolysis and plasmolysed cell |
| 16 | 121320055020 | Rhea Mangal | DNA replication model |
| 17 | 121320055021 | R Srithika Reddy | Gram staining of <i>E. coli</i> |
| 18 | 121320055022 | Sahdia Begum | DNA model |
| 19 | 121320055023 | Sakshi Mohan Lal | Isolation of DNA from orange |
| 20 | 121320055024 | Saleha Khaton | To observe Anaphase and telophase stages of Mitosis from onion root tips |
| 21 | 121320055025 | Sirangi Bhavana | Fluid mosaic membrane model |
| 22 | 121320055026 | T Trishla Jain | Review on any recent advances in cell biology |
| 23 | 121320055027 | Urmeet Kaur | Cell cycle model with regulation aspects |
| 24 | 121320055028 | Zainab Amjad Mohiuddin | Gram staining of <i>Bacillus</i> |
| 25 | 121320055029 | Preethi Kumari | Mitosis model |

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|----|--------------|----------------|---|
| 26 | 121320055030 | G Harini | To observe Metaphase and Prophase stages of Mitosis from onion root tip |
| 27 | 121320055031 | Pidugu Bhavana | Protein synthesis model |

● **DSE 603 – Practical project topics**

| DSE 603 – Economic Botany & Biotechnology | | | |
|--|----------------|---------------------|---|
| S.No | Roll.No | Student Name | Project |
| 1 | 121320041002 | Afnan Sami | Collection of Oil Seeds and Oil |
| 2 | 121320041003 | Bhanupriya | Black Tea |
| 3 | 121320041005 | Chatla Karuna | Herbal Tea |
| 4 | 121320041006 | Datla Neha | Enzymes in Gene Cloning - 3D Model |
| 5 | 121320041007 | Praharsha | Wheat Grass Tea |
| 6 | 121320041008 | Keerthana | Collection of Cereals mentioning the Economic Importance |
| 7 | 121320041009 | Joanna Christine | Collection of Legumes mentioning the Economic Importance |
| 8 | 121320041010 | Juveria Salomi | Collection of Millets mentioning the Economic Importance |
| 9 | 121320041012 | Harshitha | Shanku pushpam(Blue Colour) Tea |
| 10 | 121320041015 | Devi Sri | Collection of Dry fruits mentioning the Economic Importance |
| 11 | 121320041018 | Pari Rani | Lemon grass Tea |
| 12 | 121320041021 | Proddutur Shereen | Clove Tea |
| 13 | 121320041022 | Shalini | Hibiscus Tea |
| 14 | 121320041023 | Sneha Benny | Collection of Oil Seeds and Oil |
| 15 | 121320041024 | Tanya Robins | Peppermint Tea |
| 16 | 121320041025 | Supriya | Gene cloning vectors - 3D Model |
| 17 | 121320041026 | Vijaya Bhargavi | Green Tea |

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|----|--------------|---------------|---|
| 18 | 121320041028 | Veda Samhitha | Collection of Pulses mentioning the Economic Importance |
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| S.No | Roll.No | Student Name | Project |
|-------------|----------------|---------------------|--|
| 1 | 121320051001 | Angela Shresta | Jaggery Tea |
| 2 | 121320051002 | Ayesha | Black Tea |
| 3 | 121320051004 | Bandaru Sony | Collection of Cereals mentioning Economic Importance |
| 4 | 121320051005 | Nirupama Reddy | Collection of Legumes mentioning Economic Importance |
| 5 | 121320051006 | Gnana Prasuna | Gene Cloning vectors - 3D Model |
| 6 | 121320051007 | Chikoti Darshana | Collection of Oil Seeds and Oil |
| 7 | 121320051008 | Chinta Gayathri | Herbal Tea |
| 8 | 121320051009 | Siri Rajender | Dish with Dry Fruits |
| 9 | 121320051010 | Suditha | Ginger Tea |
| 10 | 121320051011 | Tejaswini | Hibiscus Tea |
| 11 | 121320051013 | Kousar | Enzymes in Gene Cloning - 3D Model |
| 12 | 121320051014 | Vani Priya | Dish with Millets |
| 13 | 121320051015 | Sravani | Green Tea |
| 14 | 121320051018 | Preethi Joel | Shanku pushpam (Blue Colour) Tea |
| 15 | 121320051019 | R Gayathri | Dish with Cereals |
| 16 | 121320051020 | Rhea Mangal | Collection of Pulses mentioning Economic Importance |
| 17 | 121320051021 | Srithika Reddy | Hibiscus Tea |
| 18 | 121320051022 | Sahdia Begum | Dish with Millets |
| 19 | 121320051023 | Sakshi | Wheat grass Tea |
| 20 | 121320051024 | Saleha | Jaggery Tea |
| 21 | 121320051025 | S Bhavana | Dish with Cereals |
| 22 | 121320051026 | Trishla Jain | Dish with Dry Fruits |

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|----|--------------|-----------------|---------------------------------|
| 23 | 121320051027 | Urmeet Kaur | Dish with Oats |
| 24 | 121320051028 | Zainab Mohammad | Lemon grass Tea |
| 25 | 121320051029 | Preethi Kumari | Collection of Oil Seeds and Oil |
| 26 | 121320051030 | Harini | Peppermint Tea |
| 27 | 121320051031 | P Bhavana | Black Tea |

Compiled by Dr.Ch.Basanti