



St. Francis
College for Women
Begumpet, Hyderabad-500016
(Autonomous & Affiliated to Osmania University)
NAAC Re-accredited with 'A' Grade 4th Cycle



जैवप्रौद्योगिकी विभाग
**DEPARTMENT OF
BIOTECHNOLOGY**

सत्यमेव जयते

DEPARTMENT OF BIOCHEMISTRY

S.No.	Date	Activity
1.	28/06/24	Workshop on “Hematology & Blood Banking”
2.	03/07/25-05/07/24	Enhancing bench skills- 2 nd yrs
3.	16/07/24	Guest lecture titled “ Mitochondria in Inter Organellar Communication and Lipid Metabolism”
5.	16/07/24	Workshop on “Molecular Techniques”
6.	20/08/24	Guest lecture On “Medical Coding- Growth & Opportunities”
7.	25/09/24	Enhancing bench skills- 1 st yrs
8.	25/11/24- 26/11/24	GLEE 2024
9.	16/12/24-3/1/25	Skill Training-workshop
10.	03/01/25	Field Trip Thought Flows- Medical Coding Academy, Ameerpet
11.	10/02/25	Guest Lecture on Endometriosis by Dr. Vimee Bindra
12.	14/02/25	Convergence of Technology & Biology Transforming Life Sciences



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**DEPARTMENT OF
BIOTECHNOLOGY**

STUDENT EXCHANGE PROGRAM- Academic Year 2024-2025
(Under Cluster College Activity)

St. Francis College for Women, Begumpet
with
R.B.V.R.R. Women's College (Autonomous) Narayanaguda, Hyderabad

Workshop on 'Hematology & Blood Banking' - June 28, 2024

Conducted by Department of Zoology & Microbiology

Report:

Date: 28-6-2024

Beneficiaries: 61

Objective: To make students practically learn and understand the deeper insights about Blood related Experiments in Haematology and Guidelines of Blood banking

Report:

Department of Biochemistry, St. Francis College for Women in collaboration with R.B.V.R.R college for Women, Narayanaguda as a part of Cluster college activity has organized a Workshop on "Hematology & Blood Banking" on 28th June 2024. 61 students from SFC & RBVRR have actively participated. Students visited Blood Bank Facility at Institute of Preventive Medicine (IPM), Narayanguda, where they were briefed about the Plasma and Serum Separation from Blood, Blood Grouping and a Practical Session on Differential Leukocytes counting experiment. The workshop got an overwhelming response from students.

Outcome: Students have got to observe and learn in detail about the process of Blood Donations, what are the parameters to be checked in any Donor, the Step wise procedure of Blood collection and processing and they have also got the opportunity to observe the equipment used in a Blood bank such as Cold Centrifuge, Plasma Expressor, -40 Freezer and the cold storage facility etc which they found quite interesting and informative.

Hands-on Workshop on the Blood related experiments created a sort of Enthusiasm among students and each student got the opportunity to perform and observe the Different Leukocytes which helped to understand what types of WBC are generally found in blood, what is the medical significance of performing the count etc.

No.of Participants: 61

STUDENTS OF ST. FRANCIS COLLEGE FOR WOMEN

S.NO	ROLL NUMBER	NAME
BIOTECH/BIOCHEM/CHEM IIF (BT/BC/C)		
1	121322056007	Vaishnavi
2	121322056008	Keerthana
3	121322056010	Archana
4	121322056012	Harini
5	121322056018	Sriya
6	121322056022	Poojitha
7	121322056023	Pooja
8	121322056024	Yashaswini
9	121322056028	Tvisha
10	121322056031	Likhitanjali
BIOCHEM/CHEM/COMP -IIF (BC/C/CAP)		
11	121322061001	Alisha Choudhary
12	121322061003	C. Rakshitha
13	121322061005	D.Himani
14	121322061006	G. Sai Sharanya
15	121322061009	K. Amulya
16	121322061010	Loka Bhargavi
17	121322061029	T. Sai Rakshitha
18	121322061031	V. Anjani Praneetha
19	121322061032	V. Srividhya
20	121322061038	G. Akhila
21	121322061039	G. Gayathri

STUDENTS OF R.B.V.R.R WOMEN'S COLLEGE:

S.No	CLASS	ROLL NUMBER	NAME OF THE STUDENT
1	BSc.MLT II year	117223210001	RAPOLE RESHMA REDDY
2	BSc.MLT II year	117223210002	FAREEN
3	BSc.MLT II year	117223210003	N BHAVANI VARSHA
4	BSc.MLT II year	117223210004	UZMA FATIMA
5	BSc.MLT II year	117223210005	GANDLA RAJESHWARI
6	BSc.MLT II year	117223210006	AMEER UNISSA
7	BSc.MLT II year	117223210007	P. PRASANNA LAKSHMI
8	BSc.MLT II year	117223210008	N BHAVANI VARSHA
9	BSc.MLT II year	117223210009	VAISHALI
10	BSc.MLT II year	117223210010	ASMA BEGUM
11	BSc.MLT II year	117223210011	S.SUNAINA
12	BSc.MLT II year	117223210012	GUDIYA KUMARI
13	BSc.MLT II year	117223210013	SANIYA SULTANA
14	BSc.MLT II year	117223210014	PRIYA KUMARI
15	BSc.MLT II year	117223210015	SAKE NANDITHA
16	BSc.MLT II year	117223210016	DOBBALI ARUNA
17	BSc.MLT II year	117223210017	SHARAGADAM MADHAVI
18	BSc.MLT II year	117223210018	PADAVALA ANKITHA
19	BSc.MLT II year	117223210019	DANDU SUWARNA
20	BSc.MLT II year	117223210020	RAYANOLA MANASA
21	BSc.MLT II year	117223210021	M INDUPRIYA
22	BSc.MLT II year	117223210022	DANDU KALPANA
23	BSc.MLT II year	117223210023	M AMRITHA
24	BSc.MLT II year	117223210024	SUTARI SHIVANI
25	BSc.MLT II year	117223210025	BOJJAMMA AKHILA

26	BSc.MLT II year	117223210026	KUKUTLA NANDINI
27	BSc.MLT II year	117223210027	CHAKALI SAI PRIYA
28	BSc.MLT II year	117223210028	SAVELLA AKSHAYA
29	BSc.MLT II year	117223210030	HUMERA FATIMA
30	BSc.MLT II year	117223210031	GARDAS SRI SANJANA
31	BSc.MLT II year	117223210032	R.LAKSHMI RAMANI
32	BSc.MLT II year	117223210033	SHIVANI
33	BSc.MLT II year	117223210035	P.SHIVANI
34	BSc.MLT II year	117223210036	TANIA HAZARA
35	BSc.MLT II year	117223210037	C.SRAVANTHI

LINK OF PARTICIPATION CERTIFICATES:

<https://docs.google.com/presentation/d/1Vm6Neb9xAjB3mZcWGa3aySMjNRvOBWjl/edit?usp=sharing&ouid=115769660637585908437&rtpof=true&sd=true>







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DEPARTMENT OF

BIOTECHNOLOGY

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2024 - 2025

DEPARTMENT OF BIOCHEMISTRY

Measures adopted to enhance bench skills of students

Type of Activity: Preparation of Working Standard Solutions Used in Quantitative

Estimations

No. of student beneficiaries: 2nd year Biochemistry students - 77

Conducted on : 3/07/2024; 4/07/24; 5/07/24

Time: During their respective lab sessions

Objective:

- To enhance student's knowledge on concepts related to quantitative estimations, concentrations of samples, stock & working standards.
- To provide hands on training on preparation of stock & working standard solutions used in quantitative estimations.

Outcome:

- Students learnt the concepts of Quantitative Estimations, Concentrations, Stock & Working standards.
- Students have gained hands on experience in preparation of Stock & Working Standard solutions.
- They have learnt the calculations used in making the solutions.



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**DEPARTMENT OF
BIOTECHNOLOGY**

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 - 2025
DEPARTMENT OF BIOCHEMISTRY

Guest Lecture

Date: 16th July 2024 Time:

9:30 a.m-10:30 p.m.

Brochure:

St. Francis
College for Women
Begumpet, Hyderabad-500016
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Department of Biochemistry
Celebrates 28th Anniversary
16th July 2024

Resource Person

Prof. Naresh Babu
Professor - Department of Biochemistry,
School of Life Sciences,
University of Hyderabad.

Organizes
Guest Lecture on
Mitochondria in Inter Organellar
Communication and Lipid Metabolism
⌚ 9.30am to 10.30am 📍 Capitanio Hall

Workshop on Molecular Techniques
⌚ 10.30am to 4.00pm 📍 Biochemistry Lab

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SUSTAINABLE DEVELOPMENT GOALS
SFC supports SDG

Department of Biochemistry organized a Guest lecture titled “Mitochondria in Inter Organellar Communication and Lipid Metabolism” under the DBT STAR COLLEGE (Strengthening Component) for the First and final year students of Biochemistry , on 16th July 2024. The resource person was Dr. Naresh Babu, Prof. in the department of Biochemistry, UoH, Hyderabad. Around 120 students have attended the session.

Objectives:

- To create research temper in students
- To update students about the latest research trends in mitochondria research

Outcomes:

- Students understood the importance of research and latest trends in mitochondria concept.



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STUDENT EXCHANGE PROGRAM- Academic Year 2024-2025

(Under Cluster College Activity)

**St. Francis College for Women, Begumpet
with**

B.V.R.R. Women's College (Autonomous) Narayanaguda, Hyderabad

Workshop on Molecular Techniques – 16th July ,2024

Conducted by Department of Biochemistry

Report:

Date: 16-7-2024

Venue: St. Francis College for Women

Beneficiaries: 30 Students from Raj Bahadur Venkata Rama Reddy Women's College

Objective:

The workshop aimed to provide students with hands-on experience in essential molecular biology techniques, Agarose gel electrophoresis and DNA isolation from rice plants. The objective was to enhance practical skills, deepen understanding of molecular techniques, and foster a collaborative learning environment.

Details:

- An introduction to the principles and applications of Agarose gel electrophoresis.
- A step-by-step demonstration of DNA isolation from rice leaves.
- Hands-on practice sessions for students to perform the techniques themselves.
- Discussions on troubleshooting and interpreting results.

Outcome:

The workshop was attended by 30 enthusiastic students who actively participated in all sessions. The hands-on experience not only improved their practical skills but also deepened their understanding of molecular biology techniques. Students learned how to prepare agarose gels, load DNA samples and had hands-on experience in separating DNA fragments based on size, followed by running the gel electrophoresis and visualizing bands under UV light. Students also performed DNA extraction from rice plant leaves tissues, following a standard protocol involving cell lysis, purification, and precipitation and they have successfully isolated high-quality DNA, which they quantified and assessed for purity. The event was highly successful in achieving its objectives, providing valuable educational experiences and fostering a spirit of collaboration and inquiry among the participants..

Number of participants: Final year students of Biotechnology/Microbiology/Chemistry and Zoology/Microbiology/Chemistry streams

STUDENTS OF R.B.V.R WOMEN'S COLLEGE

S.NO	HALL TICKET NO.	NAME OF THE STUDENTS	CLASS
1.	117222202001	G. NISHITHA	BSc- MZC III Yr.
2.	117222202002	P. THANVI	BSc- MZC III Yr.
3.	117222202003	SAI PRAVALLIKA	BSc- MZC III Yr.
4.	117222202005	B. ANUSHA	BSc- MZC III Yr.
5.	117222202010	S. ROSHINI REDDY	BSc- MZC III Yr.
6.	117222202012	K. SWOMYA	BSc- MZC III Yr.
7.	117222202014	PAAVANI	BSc- MZC III Yr.
8.	117222202026	P. YASHASWI	BSc- MZC III Yr.
9.	117222202019	B. SRAVANTHI	BSc- MZC III Yr.
10	117222202023	ABEDA BEGUM	BSc- MZC III Yr.
11	117222202024	K. PRAVALLIKA	BSc- MZC III Yr.
12	117222202027	KEERTHI REDDY	BSc- MZC III Yr.
13	117222202028	J. APARNA	BSc- MZC III Yr.
14	117222202029	Y. RENUKA	BSc- MZC III Yr.
15	117222202025	N. AISHWARYA	BSc- MZC III Yr.
16	117222209031	AAMNA	BSc-MBtC III Yr.
17	117222209003	PRATHIBHA SPOORTI	BSc-MBtC III Yr.
18	117222209004	SPANDITHA REDDY	BSc-MBtC III Yr.
19	117222209005	D. PRAVALLIKA	BSc-MBtC III Yr.
20	117222209021	SAKSHI THAKUR	BSc-MBtC III Yr.
21	117222209008	M. MANASVI	BSc-MBtC III Yr.
22	117222209026	K. HANSIKA REDDY	BSc-MBtC III Yr.
23	117222209002	DIVYA SREE A	BSc-MBtC III Yr.
24	117222209029	SMITHI YADAV	BSc-MBtC III Yr.
25	117222209015	JOSHNA B	BSc-MBtC III Yr.
26	117222209006	DEBORA MELVINA	BSc-MBtC III Yr.
27	117222209039	R. AKSHITA REDDY	BSc-MBtC III Yr.
28	117222209040	T. SAI SREE	BSc-MBtC III Yr.
29	117222209011	P. PRANITHA	BSc-MBtC III Yr.
30	117222209047	G. PALLAVI	BSc-MBtC III Yr.
31	117222209051	CH. DIVYA KUMARI	BSc-MBtC III Yr.

Participation Certificates Link:

https://drive.google.com/file/d/1Ts8P7qd9qIhBA5NsD9T2P3KqFtaTBxxu/view?usp=drive_link





ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 - 2025
DEPARTMENT OF BIOCHEMISTRY

Report: Guest Lecture on Date: 20th Aug 2024

Time: 9:30 a.m-11:30 a.m.

Brochure:

The brochure is for a guest lecture titled "Medical Coding" organized by the Department of Biochemistry at St. Francis College for Women, Begumpet, Hyderabad-500016. It features a portrait of Mr. Manoj, Training Manager at Thought Flowss, as the resource person. The lecture is scheduled for 20th August from 9.30am to 11.40am at Capitanio Hall. The audience is for all final year Biochemistry students. The brochure also includes the college logo, NAAC accreditation details, and a reference to Sustainable Development Goals (SDG).

The Department of Biochemistry organized a Guest Lecture titled “**Medical Coding- Growth & Opportunities**” under DBT STAR COLLEGE (Strengthening Component) on 20th Aug 2024 in Capitanio Hall from 9:40 A.M to 11:40 A.M for all B.Sc. final year Biochemistry students. Mr. Nilanjan Basu, India Head- Strategic Partnership & Operations and Mr. Manoj, Training Manager- Thought flows were the resource persons. Around 80 students attended the lecture. It was an enriching session.

Objectives:

- To expose students to the medical coding field.
- To gain knowledge about the various job opportunities in the field in India & abroad.

Outcomes:

- Students gained knowledge on the medical coding subject.
- Students learnt the various career options in the field of medical coding available globally.



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ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 - 2025
DEPARTMENT OF BIOCHEMISTRY

Measures adopted to enhance bench skills of students

Type of Activity: Preparation of buffers and Measurement of PH of solutions.

No. of student beneficiaries: 1st year Biochemistry students – 70

Conducted on :25/9/24,30/9/24, 7/10/2024 Time:

10.40-12.40 PM

Objective:

- To enhance student's knowledge on concepts related to buffers.
- To provide hands on training on preparation of buffers & measurement of PH value using PH meter.

Outcome:

- Students learnt to prepare buffer solutions and measure PH value using PH meter.

Pictures:





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ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 - 2025
DEPARTMENT OF BIOCHEMISTRY

GLEE 2024

Date: 25th November, 2024 and 26th November, 2024 and Time:

10:00 a.m-5:00 p.m.

Brochure:

The brochure is a vibrant green poster for the 'GLEE - 2024' annual outreach program. At the top left, it features the St. Francis College for Women logo and name, along with a 'SUSTAINABLE DEVELOPMENT GOALS' badge indicating SFC supports SDG. The central text reads 'SPECTRUM PRESENTS GLEE - 2024 ANNUAL OUTREACH PROGRAM' in large, bold, white and yellow letters. Below this, a tagline states 'Inspiring young scientists to create, explore and change the world'. The main body of text describes the program as an annual social outreach event where students from various schools explore science exhibits made by college students. It emphasizes that GLEE encourages kids' love for science and creativity, ignites their scientific curiosity, and helps them understand STEM advancements. A call to action says 'Follow to stay updated !!' with the Instagram handle '@spectrum_sfc'. On the right, a yellow box contains the event details: DATE: 25th NOVEMBER, 2024, TIME: 10.00 AM ONWARDS, and VENUE: St. Francis College for Women, Begumpet. The bottom of the brochure is decorated with illustrations of children, books, a lightbulb, a calculator, and various scientific symbols.

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SUSTAINABLE DEVELOPMENT GOALS
SFC supports SDG

SPECTRUM PRESENTS

GLEE - 2024

ANNUAL OUTREACH PROGRAM

Inspiring young scientists to create, explore and change the world

Spectrum's annual social outreach program GLEE - 2024, unites students from various schools to explore science exhibits made by college students. GLEE encourages kids' love for science and creativity, ignites their scientific curiosity, and helps them understand STEM advancements.

Follow to stay updated !!
@spectrum_sfc

DATE :
25th NOVEMBER, 2024

TIME : 10.00 AM
ONWARDS

VENUE :
St. Francis College for
Women, Begumpet



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Spectrum Club represented by the thirteen departments of Life Sciences and Physical Sciences, conducted its two days annual outreach program Glee on 25th November and 26th November.

Objective:

Providing an opportunity to school and intermediate students in a practical, interesting and illuminating way of learning through demonstration of scientific concepts via descriptive and live models.

Students get the opportunity to exhibit their models.

Outcomes:

- Students understood the importance of understanding the science behind every aspect of life with respect to biological processes, technology and real-life approaches depending on science and latest trends in research.
- The students exhibiting the models have gained experience in explaining science concepts confidently and have learnt team work.



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GLEE 2024 : BIOCHEMISTRY

LIVE MODELS:

1. Topic: Science behind criminal investigations
 - T. Pavithra BTBCC - 121323056025
 - B. Mounika BTBCC -121323056007
2. Topic : Insulin Insights
 - Vanshika Nair BCCAPC 121323061029
 - Sanskriti BTBCC 121323056028
3. Topic: Food Adulteration
 - P. Rohini BTBCC 121323056026
 - Sahaya Emelyn Stanica BTBCC 121323056027
4. Topic : Gene Therapy
 - Akhila MBBCC 121323057016
 - Arpita MBBCC 121323057029
5. Topic : Dialysis
 - Khyaathi MBBCC : 121323057031
 - Meenakshi MBBCC :121323057020
6. Topic : Mechanism of Drug action
 - Esha Sripada - BTBCC 121322056009
 - T. Likhitanjali – BTBCC 121322056031
7. Topic : Replication
 - B. Poojitha BTBCC 121323056005
 - M. Madhumitha BTBCC 121323056021

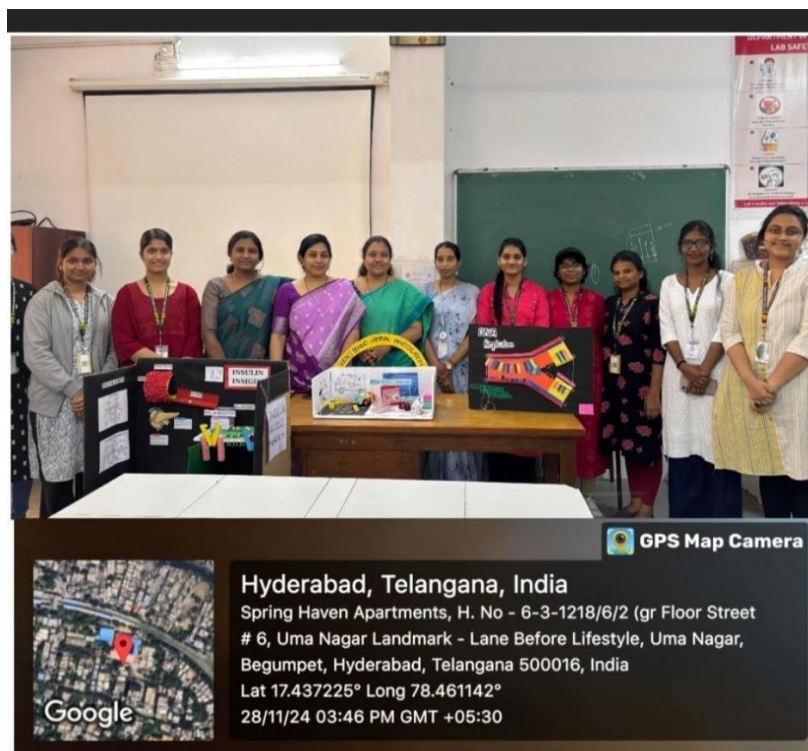


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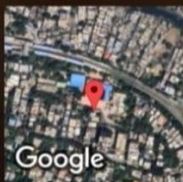


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Pictures:



GPS Map Camera



Hyderabad, Telangana, India

Spring Haven Apartments, H. No - 6-3-1218/6/2 (gr Floor Street
6, Uma Nagar Landmark - Lane Before Lifestyle, Uma Nagar,
Begumpet, Hyderabad, Telangana 500016, India
Lat 17.437225° Long 78.461142°
28/11/24 03:46 PM GMT +05:30



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GPS Map Camera



Google

Hyderabad, Telangana, India

Spring Haven Apartments, H. No - 6-3-1218/6/2 (gr Floor Street

6, Uma Nagar Landmark - Lane Before Lifestyle, Uma Nagar,

Begumpet, Hyderabad, Telangana 500016, India

Lat 17.437225° Long 78.461142°

28/11/24 03:46 PM GMT +05:30



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ACADEMIC YEAR 2024- 2025
DEPARTMENT OF BIOCHEMISTRY

**Report on Completion of Institute of Genetics and hospital for genetic diseases, Osmania University
Training-workshop 2024-2025**

Date: 16th December to 3rd January 2025

Time: 10:30 a.m-4:00 p.m.

Objective:

The workshop was planned to yield students with hands on experience and advanced learning opportunities, in order to amend their technical skills and understanding of molecular genetics.

Report:

The workshop was successfully conducted by Department of Biochemistry in collaboration with Institute of genetics and hospital for genetic diseases, Osmania University from 16th December, 2024 to 3rd of January, 2025. This workshop was meticulously designed to provide students with hands-on experience and progressive learning opportunities, focusing on enhancing their understanding and improving their technical skills with respect to vivid techniques.

Each participant was charged a nominal fee of ₹3000 to attend the workshop. This fee facilitated access to resources and expert-led sessions. The practical exposure gained through this event is expected to significantly contribute to their academic growth and career. At the end of the training the students were awarded certificates certificate. [CERTIFICATES](#)

Outcomes:

- Students learned the detailed processes of Fluorescence in situ hybridization(FISH), Spectral Karyotyping(SKY), GTG Banding in cytogenetics lab. In Environmental toxicology lab the students learned about comet assay technique which is used to evaluate DNA damage at cellular level.
- The workshop fostered enthusiasm among students, engaging them to perform clinical tests like serum ceruloplasmin qualitative analysis, quantification of TSH,T3 and T4 hormonal levels using ELISA followed by newborn screening tests in Clinical Biochemistry lab
- They also learned advanced molecular techniques like RT-PCR, Immunohistochemistry, western blotting and immunofluorescence



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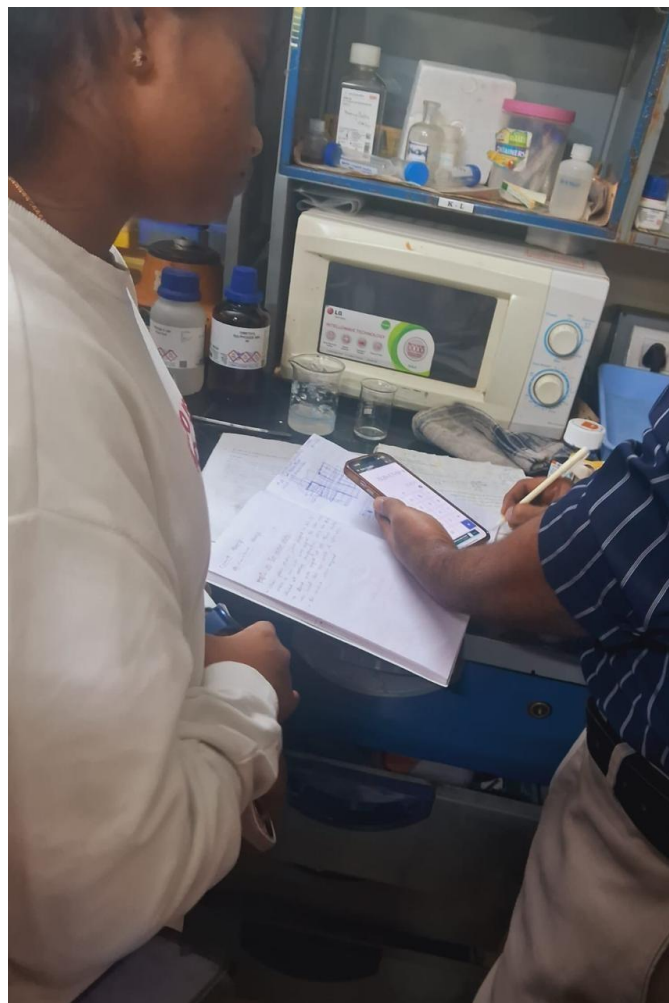
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**DEPARTMENT OF
BIOTECHNOLOGY**

- In clinical genetics lab the students acquired knowledge about various prenatal screening techniques like NIPT, amniocentesis, Nuchal translucency scanning, microarray analysis and next generation sequencing.

The overall outcome was an extraordinary learning experience for students that has widened their perspective on applications of molecular biotechnology, clinical biochemistry, genetics in real-world scenarios contributing to their academic and professional development.





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ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 - 2025
DEPARTMENT OF BIOCHEMISTRY

1. Name of the Department - Biochemistry
2. Name of the Event – Field Trip
3. Date – 3rd January 2025
4. Venue – Thought Flows- Medical Coding Academy, Ameerpet
5. Guest Speaker/ Collaboration: Mr. Manoj, Thought Flows- Medical Coding Academy
6. No of Participants: 60 students & 2 staff members
7. Report:

A field trip to Thought Flows-Medical Coding Academy, Ameerpet, was organized for 2nd and 3rd-year Biochemistry students on **3rd Jan 2025** from 1:30pm to 4:30 pm. The primary Objective was to introduce students to the field of medical coding as a viable career path and to provide insights into the skills and impart knowledge required for a successful career in this domain.

8. A write up for official Face Book:

Department of Biochemistry in collaboration with Thought Flows-Medical Coding Academy, organised a field trip on **3rd Jan 2025** for second and final year Biochemistry students. 60 participants availed the opportunity.



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Pictures:





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**DEPARTMENT OF
BIOTECHNOLOGY**

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 - 2025
DEPARTMENT OF BIOCHEMISTRY

Guest Lecture

Date: 10th February 2025 Time:

10:30 a.m-11:30 a.m.

Brochure:

The brochure is a colorful flyer for a guest lecture. It features the St. Francis College for Women logo and name at the top left. The title 'Department of Biochemistry' is prominently displayed in the center. Below it, it says 'Organizes Guest Lecture on' followed by 'Endometriosis' in a large, stylized font. The date 'February 10th 2025' is shown with a calendar icon. The time '10:30 am to 11:30 am' is indicated with a clock icon, and the location 'U203' is marked with a location pin icon. A circular portrait of Dr. Vimee Bindra is shown on the left, with her name and title 'Gynaecologist and Laparoscopic Surgeon, Endometriosis Excision Surgeon' below it. The text 'For Biochemistry Final Year Students' is at the bottom. A 'Sustainable Development Goals' logo is in the top right corner.

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Department of Biochemistry

Resource Person

Organizes
Guest Lecture on
Endometriosis

February 10th 2025

10:30 am to 11:30 am **U203**

Dr. Vimee Bindra
Gynaecologist and Laparoscopic
Surgeon, Endometriosis Excision
Surgeon

For Biochemistry Final Year Students

**SUSTAINABLE
DEVELOPMENT
GOALS**
SFC supports SDG

The Department of Biochemistry, St. Francis Degree College, Hyderabad, organized an insightful Guest Lecture on Endometriosis by Dr. Vimee Bindra, a renowned gynaecologist and laparoscopic surgeon. The event aimed to raise awareness about endometriosis, its impact on women's health, and the latest advancements in diagnosis and treatment.

Objectives:

- Understanding Endometriosis: Explanation of the condition, its causes, and how it affects the reproductive system.
- Symptoms and Diagnosis: Discussion on common symptoms such as pelvic pain, menstrual irregularities, and infertility.
- Impact on Women's Health: How endometriosis affects mental and physical well-being and the importance of early detection.
- Recent Advances & Research: Insights into new therapeutic approaches and the role of personalized medicine in treating endometriosis.



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DEPARTMENT OF
BIOTECHNOLOGY

Outcomes:

- The session was highly interactive, with students and faculty engaging in discussions and raising important questions regarding the causes, treatment options, and lifestyle modifications to manage endometriosis.
- Dr. Bindra emphasized the need for awareness, early diagnosis, and proper medical consultation to improve the quality of life for affected individuals.

Pictures:





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ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 - 2025
DEPARTMENT OF BIOCHEMISTRY

National Conference

Title: Convergence of Technology & Biology Transforming Life Sciences

Date: 14th February 2025

Time: 8:30 a.m-4:30 p.m.

Brochure:

Registration Link
<https://forms.gle/nvSp2fZY3Vyb4cK6>

Registration Fee

Outside Participants
300/-

SFC Students for attending
100/-
(includes kit, snacks, participation certificate)

SFC Students for Oral / Paper Presentation
300/-

Scan Here to pay



For further details Contact

Dr. G. Sony
☎️: 918801048400
Ms. T. Ritika
☎️: 91879457966
Email : francisbiotech@sfc.ac.in

Chief Patron
Dr. Uma Joseph
Principal & Associate Professor, Department of History

Patrons
Sr. Carmali Thaniath
Convenor

Dr. Sr. Sheryl ED
Vice Principal & Associate Professor, Department of Chemistry

Dr. Usha Praveena V J
Dean of Sciences, Associate Professor, Department of Physics

Convener
Ms. Malathi Varma
HOD, Assistant Professor - Biochemistry

Co-Convenors
Dr. S. Parijatham Kanchana
Assistant Professor, Department of Biochemistry

Dr. G. Sony
Assistant Professor, Department of Biochemistry

Organizing Secretary
Ms. T. Ritika
Assistant Professor, Department of Biochemistry

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National Conference
on
**Convergence of
Technology & Biology
- Transforming Life
Sciences**

Organized by
Department of Biochemistry

Date
14th February, 2025

Venue
Capitanio Hall

ABOUT COLLEGE

St. Francis College for Women is a Catholic Minority Institution founded by the Sisters of Charity of St. Bartolomea Capitanio and Vincenta Gerosa in 1959, for the education of women. The college derives its inspiration from the person and teachings of Jesus Christ, who is its norm, protector and guide. St. Francis College is autonomous, affiliated to Osmania University. The college was recognized under Sec. 2(1) 12B of the University Grants Commission in 1964 and conferred the Status of Autonomy through letter No. F. 24-787 (NFE) dated 9 May 1988. One of the first autonomous colleges in the twin cities, affiliated to Osmania University, St. Francis College is NAAC re-accredited with A Grade in the 4th cycle. In 2004, UGC has declared the college as College with Potential for Excellence. The College continues to serve the cause of education of women with varied academic programmes intertwined with co-curricular activities, civic and social responsibility initiatives, cultural and aesthetic promotion, physical fitness and value education. The college curriculum is based on UGC advocated Choice Based Credit System. Department of Biochemistry, St. Francis College for Women to inculcate and build scientific temper among the students and faculty and motivate towards research is organizing an National Conference on "Convergence of Technology & Biology - Transforming Life Sciences" on 14th February 2025.

ABOUT THE DEPARTMENT

The Department of Biochemistry was established on June 15, 1996, as part of the restructured life sciences curriculum. Since its inception, the department has consistently updated, revised, and restructured its syllabus to align with the rapid advancements in the field of Biochemistry, adhering to the Choice-Based Credit System (CBCS) as per UGC guidelines. The curriculum is enriched with co-curricular activities, including visits to research and industrial laboratories, hands-on training, and practical projects addressing real-world applications. These initiatives aim to foster student interest in pursuing careers in Biochemistry. Faculty and students actively contribute to the academic community by publishing research papers in reputed journals. The department is proud of its state-of-the-art laboratory,

equipped with modern infrastructure to support advanced learning and research. Its highly qualified and dedicated faculty are committed to academic excellence. The department has also received grants from esteemed bodies such as the DIT, UGC, and SFC MRP, further enhancing its research capabilities and resources.

ABOUT THE CONFERENCE

The convergence of technology and biology holds immense promise for transforming lives. By combining the power of biological knowledge with technological innovation, we are certain to solve some of humanity's most pressing challenges related to healthcare, personalized medicine, development of wearable devices, agriculture, environmental sector, food security that serve to enhance the overall quality of life. However, as we move forward, it is crucial that we approach these advancements with caution, responsibility, and a commitment to ethical standards. In recent years, this intersection has brought forth a revolution in the way we understand, treat, and enhance human health and life. The fusion of biology with cutting-edge technologies like artificial intelligence (AI), genetic engineering, and nanotechnology is opening up new frontiers, offering transformative possibilities for individuals and society as a whole. Vision for a future where biology and technology converge to enhance the overall quality of life, fostering a brighter and more sustainable world.

Sub themes of the Conference

- Revolutionizing Healthcare with Technology
- Personalized Medicine and Genomics
- Emerging Technologies in Lifesciences
- Nanotechnology in Medicine and Biology
- Sustainable Agriculture and Food Security
- Environmental Applications
- Ethics and Policy in Life Science Innovation
- Ethical implications of augmenting human capabilities
- AI and Machine Learning in Life Sciences
- Global Challenges and the Role of Biology

Writing Paper/Poster Presentations

- Papers related to the above or related themes are invited for Paper/Poster Presentations.
- Abstracts of the Paper/Poster to be mailed to: francisbiotech@sfc.ac.in by Feb 5th 2025.
- Five minutes will be allotted for each presentation and the best paper & Poster will be awarded.
- Two of 2 or individuals can participate.
- All the participants need to Register individually.
- All the participants will receive Certificates.

PROGRAM SCHEDULE

Registrations : 9:00 am to 9:30 am
Inaugural Ceremony 9:30 am to 10:00 am

Key Note Address
10:00 am - 11:00 am
Dr. Narayana Rao
Head of Analytical
R&D (NPL), Natar Research Centre

Tea Break : 11:00 - 11:30 am

Technical Session by Guest of Honour
11:30 am - 1:00 pm
Dr. Vishnu Priya
Chief Scientist, Centre for
Cellular & Molecular Biology

Lunch Break : 1:00pm to 1:30 pm

1:30 pm to 3:30 pm
Paper Presentations - Capitanio Hall
Poster Presentations - Gerosa Hall

Victory : 3:30 pm Capitanio Hall

Publication Opportunities

- All accepted full papers will be published in Conference Proceedings Book with ISBN.
- Dtd will be assigned with extra charge of 250/- per article.
- The Conference book will be added to Google books for further citation.
- E-copies will be shared to the participants.

Important Dates :

- Full paper to be mailed to francisbiotech@sfc.ac.in by Feb 10th 2025.



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DEPARTMENT OF
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The Department of Biochemistry, St. Francis Degree College, Hyderabad, organized a National Conference entitled Convergence of Technology & Biology Transforming Life Sciences. The event included keynote address by Dr. Narayana Rao Head of Analytical, R&D, (API), Natco Research Centre and technical session by Dr. Vishnu Priya Chief Scientist, Centre for Cellular & Molecular Biology in the morning session. The session in afternoon included poster and paper presentation's from students and staff of different colleges and in house participants. The sponsors for the event were Ciencia Life sciences, Thoughtflows Medical Academy and Ashwini Chemicals. The event aimed to promote the Research ideas and Research work of students and faculty in order to highlight the impact of technology in reshaping science and knowing the latest advancements in Life Sciences.

Objectives:

- Promote Research to encourage research ideas among students and faculty.
- Emphasize the role of technology in reshaping life sciences.
- Awareness about recent Advances & Research breakthroughs in life sciences

Outcomes:

- The session was highly interactive, with students and faculty engaging in discussions as the attendees learned a lot about drug development in biopharma industry from expert Dr. Narayana Rao as well as implementing ideas into reality from Dr. Vishnu Priya.
- The conference provided a platform for networking and collaboration to all the attendees.

Pictures:





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DEPARTMENT OF
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DEPARTMENT OF NUTRITION

S.No.	Date	Activity
1	13-07-2024	Digital Technology In The Practice Of Dietetics”
2	24-02- 2025	‘Career opportunities in the field of Nutrition’
3	6-03- 2025	‘Role of Nutrition in Pregnancy’



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DEPARTMENT OF
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DEPARTMENT OF NUTRITION

Report On Guest Lecture : “DIGITAL TECHNOLOGY IN THE PRACTICE OF DIETETICS”

Date:13-07-2024

Time: 6:00 PM to 8:00 P.M

Brochure:



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DEPARTMENT OF
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**SUSTAINABLE
DEVELOPMENT
GOALS**
SFC Supports SDG

DEPARTMENT OF NUTRITION

Organises a FIP for the Nutrition Faculty on

DIGITAL TECHNOLOGY IN THE PRACTICE OF DIETETICS



DATE : 13.07.24



VENUE : ONLINE



TIME : 5PM - 6PM

By

Gurdeep Kaur Shetty,
Dept of Dietetics,
AIIMS, New Delhi

The Department of Nutrition organized a Faculty Improvement Program for Faculty and students on “Digital Technology in the Practice of Dietetics” under DBT STAR COLLEGE (Strengthening Component). Around 8 faculty members and 90 students participated in the webinar.. The Resource person for the event was Dr. Gurdeep Kaur Shetty, Department of Dietetics, AIIMS, New Delhi.

OBJECTIVES:

- To enhance the skills in the usage of Digital technology in the field of Dietetics using the dietcal software
- Learning the details of calculation of nutritive value of diets planned using the software.

OUTCOMES:

All the objectives from the webinar were met ,which were as follows

- Acquiring knowledge about the fundamental techniques for calculation using the software .
- Practical application of the usage of software..

PICTURES:

Resource Person Dr. Gurdeep Kaur Shetty, explaining calculations based on portion sizes



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BIOTECHNOLOGY

DEPARTMENT OF NUTRITION

Report on Guest Lecture on 'Career opportunities in the field of Nutrition'

Date: 24th February 2025

Time: 09:15-10:30Am

Brochure:

The brochure is a rectangular poster with a light orange background. At the top left is the St. Francis College logo and name. At the top right is the Government of India logo and the Department of Biotechnology name. The central text reads 'DEPARTMENT OF NUTRITION Organizes a Guest Lecture on Career Opportunities in the field of Nutrition'. Below this is a circular portrait of Ms. Deepthi Harkar. To the right of the portrait, it says 'By Deepthi Harkar, MS, RDN, LDN RD with American Academy of Nutrition and Dietetics, Bariatric Nutrition'. At the bottom, there are three icons: a calendar showing '24/02/2025', a location pin showing 'Seminar Hall', and a clock showing '9.15-10.30 AM'.

The Department of Nutrition had organized a Guest Lecture on '**Career opportunities in the field of Nutrition**' under DBT STAR COLLEGE (Strengthening Component) for the students of M.Sc. & B.Sc Nutrition. The event was attended by 8 faculty members & 110 students. The resource person for the same was Ms. Deepthi Harkar, RD with American Academy of Nutrition and Dietetics, Bariatric Nutrition.

Objective –

To help students understand and explore the various career paths available in the field of Nutrition.

Outcome-

The outcome was that the students gained insights into specialized fields, advanced career opportunities, and networking possibilities, ultimately enhancing their professional development.

Pictures



Ms. Deepika Harkar addressing the students



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DEPARTMENT OF
BIOTECHNOLOGY

DEPARTMENT OF NUTRITION

Report on Alumna talk on 'Role of Nutrition in Pregnancy'

Date: 6th March, 2025

Time: 9.30am-10.30am

Brochure:

The brochure is a vertical poster with a white background and a dark red border on the right side. At the top left is the St. Francis College logo and name. At the top right is the Department of Biotechnology logo and name, along with a 'Sustainable Development Goals' logo. The central text reads: 'DBT STAR COLLEGE (Under Strengthening Component) Department of Nutrition Organizes an Alumna Talk on Role of Nutrition in Pregnancy'. Below this, the date and time are listed: '6th March, 2025 9:30am to 10:30am'. The location is 'MBA Seminar Hall'. The target audience is 'B.Sc. First year (1N - ANBC and ANZC) Students'. On the left side, there is a photo of Ms. Sowmya Kumar, a woman with curly hair wearing a maroon shirt. Below her photo, her name and title are listed: 'Ms. Sowmya Kumar Nutritionist & Founder of "Nourished"'. A small clock icon is next to the date and time.

The Department of Nutrition had organized an Alumna talk on “**Role of nutrition in Pregnancy**” under DBT STAR COLLEGE (Strengthening Component). The event was attended by 4 faculty and 60 students of B.Sc. 1st year (ANZC and ANBC combinations). The resource person for the same was Ms. Sowmya Kumar, Nutritionist and founder of ‘Nourished’.

Objectives –

1. To understand the physiological changes occurring in a woman during pregnancy
2. To emphasize on the importance of preconception nutrition to prevent complications such as micronutrient deficiencies, premature birth and small for gestational age.
3. To comprehend the role played by macro and micro nutrient in order to have a successful pregnancy.

Outcome-

The students had an opportunity to learn about the role of men, their hygiene and lifestyle habits in having a successful pregnancy. The session emphasized on the importance of micronutrients, their active forms, and the required amount to prevent complications such as Vitamin A deficiency, Anemia, Cretinism, Spina bifida etc., The students were enlightened on various complications such as constipation, high blood pressure, anemia, nausea etc. and effective dietary interventions to treat the complications.

Pictures



Resource Person Ms. Sowmya Kumar



B.Sc. 1st year students



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**DEPARTMENT OF
BIOTECHNOLOGY**

DEPARTMENT OF BOTANY AND BIOTECHNOLOGY

2024-2025

S.NO	DATE	ACTIVITY
1.	6-2-2025	Guest Lecture on Fossils and Flora: Tracing Earth's Vegetative Evolution Through Time
2.	12-2-2025	Field Trip to Department of Plant Science, University of Hyderabad, Gachibowli, Hyderabad
3.	30-7-2024	Field trip to School of Life Sciences, Hyderabad Central University
4.	2-2-2025	One day National seminar- Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research



DEPARTMENT OF BOTANY

1. Report on Field Trip to “Department of Plant Science, University of Hyderabad”

Gachibowli, Hyderabad

Date: 12.02.2025

Time: 12.30 pm to 4.00 pm

Brochure

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SUSTAINABLE
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SFC supports SDG

DBT STAR COLLEGE
(Under Strengthening Component)

DEPARTMENT OF BOTANY
Organizes a
Field Trip to

**Department of Plant Science,
University of Hyderabad**

Gachibowli, Hyderabad

12th February, 2025
12:30pm to 4:00pm

Attendees : For B. Sc III A/N (BZC & ANBC) Students

The Department of Botany organised a field trip to the Department of Plant Sciences, University of Hyderabad for the III-year students of BZC and ANBC. Around 34 students and two faculty members participated.

Objectives

- To expose students to current research initiatives in the field of plant science
- To provide students the opportunity to explore laboratory facilities, green house and herbal garden.
- To encourage students to pursue higher studies and research pertaining to plants



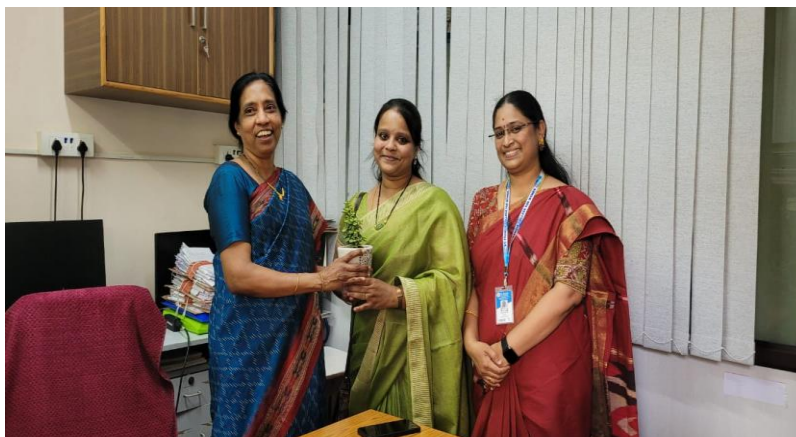
Outcomes

- The students were delighted to visit the facilities available in the Department and for them it was a great learning experience
- The students got the opportunity to interact with the Research scholars and the faculty members about the ongoing research in the field of plant science

Relevant Photographs



School of Life Sciences, Hyderabad Central University



Felicitation to Prof. Ragiba Makandar, Dept. of Plant Sciences, School of Life Sciences, HCU



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**Students visiting various facilities
in the Plant Sciences Department**


2. Report on Guest Lecture on “Fossils and Flora: Tracing Earth’s Vegetative Evolution Through Time”


Date: 06.02.2025

Time: 11.40 am to 12.40 pm in Botany Lab

Brochure

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DBT STAR COLLEGE
(Under Strengthening Component)
Department of Botany
Organizing a
Guest Talk on

**“Fossils and Flora: Tracing Earth's
Vegetative Evolution Through Time”**

Ms. Kavitha Bhadran
M.Sc., PGDESD
CSIR UGC NET
Ph. D Research Scholar, Department of Botany
Osmania University, Hyderabad.

Audience : B. Sc I A/N (BZC & ANBC) Students

February 06 2025

11:40 am to 12.40 pm **Botany Lab**



The Department of Botany organized a guest lecture on the topic **“Fossils and Flora: Tracing Earth’s Vegetative Evolution Through Time”**. Around 35 students of I year BZC and ANBC and 2 faculty members participated. The speaker for the event was **Ms. Kavitha Bhadran**, M.Sc., PGDESD, CSIR UCG NET, Ph.D Research scholar, Department of Botany, Osmania University, Hyderabad.

Objectives

- To help students comprehend the significance of fossil study in learning earth’s history
- To learn about the importance of geological time scale and their flora
- To understand how the different groups of plants evolved during the course of time

Outcomes

- Students learned about the significance of fossil study in evolution of plant life
- The students were able to identify the key geological periods and evolution of plant life across different eras.



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Relevant Photographs





PROJECT LIST

S.NO	ROLL NO	CLASS	NAME	PROJECT TITLE	RESEARCH SUPERVISOR
1.	121322041010	BZC	S Padmini	Phytoremediation potential of <i>Cicer arietinum</i> .L under Chromium stress	Dr. Basanti. Ch
2.	121322041016	BZC	Veera Sriya	Impact of Nickel on growth and Development of <i>Cicer arietinum</i> .L	Dr. Basanti. Ch
3.	121322055016	ANBC	Kotha Harini	Phytochemical screening of selected medicinal plants	Dr. Basanti. Ch
4.	121322055018	ANBC	Naidu Bhuvana Sree Sai Varenny	Bioactive treasures:A study on phytochemical profiling of selected medicianl plants	Dr.S.Revathi
5.	121322055019	ANBC	Padala Sreehitha	Growth dynamics: Comparining Lettuce and Spinach in hydroponic and soil cultivation methods.	Dr.S.Revathi
6.	121322055025	ANBC	Saniya Vaishnav	Soil or Hydroponics: A comparative analysis of growth parameters in Bok choy and Red amaranthus	Dr.S.Revathi



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BIOTECHNOLOGY

DEPARTMENT OF BIOTECHNOLOGY

3.Report on Field trip to School of Life Sciences at Hyderabad Central University

Date: 30th July 2024

Time: 09:00am to 4:00pm

Brochure:

The brochure is a green and white flyer for a field visit. It features the St. Francis College for Women logo in the top left and the Department of Biotechnology logo in the top right. The main text reads: 'DBT STAR COLLEGE (Under Strengthening Component) DEPARTMENT OF BIOTECHNOLOGY Organizes a Field Visit to SCHOOL OF LIFE SCIENCES UNIVERSITY OF HYDERABAD'. It also includes the date '30th July, 2024' and the time '9:00am to 4:00pm'. At the bottom, it states 'Attendees : For B.Sc. Final year Biotechnology Students'. There is also a 'Sustainable Development Goals' logo in the top right corner.

Under the **DBT STAR COLLEGE** Scheme (Strengthening Component), the Department of Biotechnology organised a field trip to the School of Life Sciences at Hyderabad Central University for final-year BSc Biotechnology students. This field trip involved two staff members and a total of 54 students.



Objectives:

To assist students

- Acquire knowledge of the applications of PCR, LCMS, fluorescence, laser confocal, gel documentation system, atomic absorption spectrophotometer, circular dichroism spectroscopy, and MALDI-TOF.
- Exploring the cutting-edge facilities, including the plant tissue culture lab, proteomics lab, genomics lab, glasshouse, and biohazard room

Outcomes

The students will have

- A deeper comprehension of plant tissue culture, molecular biology, and biophysical techniques
- Aspiration towards a promising career in biotechnology

Pictures





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4. Report on One day National seminar- “Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research.”

Date: 12th February, 2025

Time: 09:30am to 4:00pm

Brochure:

The brochure is a rectangular poster with a light green background and a red border. At the top left is the logo of the Department of Biotechnology, featuring a circular emblem with a flower and the text 'Department of Biotechnology'. At the top center is the St. Francis College for Women logo and name. At the top right is the Department of Biotechnology logo with the text 'जैवप्रौद्योगिकी विभाग DEPARTMENT OF BIOTECHNOLOGY'. The main text in the center reads: 'DBT STAR COLLEGE (Under Strengthening Component) DEPARTMENT OF BIOTECHNOLOGY Organizes a National Seminar on "Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research" (Hybrid Mode)'. Below this, the date 'FEBRUARY 12, 2025' is on the left and the time '9:30 am - 4:00 pm' is on the right. There are two small images: one on the left showing a group of people and one on the right showing a DNA helix and laboratory equipment.

Under the **DBT STAR COLLEGE** Scheme (Strengthening Component), the Department of Biotechnology organised a one-day National seminar on “**Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research**” in Hybrid mode for BSc 2nd year Biotechnology students. The session was attended by 138 participants and 4 faculty members.



Objectives:

To

- Assist students and researchers with valuable insights into integrative scientific inquiry.
- Effectively bridge theoretical knowledge with real-world applications, enhancing participants' research capabilities

Outcomes

The students will

- Have a deeper understanding of bridging Biology and data: How Data and Computation are transforming Biotechnology Research.
- Gain knowledge in comprehending the role of Bioinformatics in drug discovery, forensics, crop enhancement, importance of programming skills in R, Python, Unix and Biostatistics for biological data analysis
- Inculcate aspiration towards a promising career in Bioinformatics & Biostatistics

Pictures





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Hyderabad,Telangana,India
Street 5, Begumpet, Hyderabad, Telangana
500016, India
Lat 17.437245, Long 78.461177
02/12/2025 10:41 AM GMT+05:30
Note : Captured by GPS Map Camera



Hyderabad,Telangana,India
Street 5, Begumpet, Hyderabad, Telangana
500016, India
Lat 17.437107, Long 78.461040
02/12/2025 11:39 AM GMT+05:30
Note : Captured by GPS Map Camera



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PROJECT LIST

S.NO	ROLL NO	CLASS	NAME	PROJECT TITLE	RESEARCH SUPERVISOR
1.	121322050003	BTMC	Anne Alekhya	Morphological Detection And Biochemical Anatomization Of Agrobacterium Tumefaciens From The Soil Sample Of Phaseolus Vulgaris	Dr. Deepa Switha
2.	121322050033	BTMC	R. Ramya Krithi	Microbial Analysis, Detection, And Typification Of Agrobacterium Tumefaciens From Crown Gall Sample Acquired From Azadirachta Indica	Dr. Deepa Switha
3.	121322051023	BTZC	R.Deepika	Etection And Characterisation Of Agrobacterium Tumefaciens Associated With Crown Gall In Azadirachta Indica	Dr. Deepa Switha
4.	121322056030	BTBCC	Sriya Damera	Isolation And Characterisation Of Agrobacterium Tumefaciens Obtained From Soil Sample Of Phaseolus Vulgaris Plant	Dr. Deepa Switha
5.	121322056028	BTBCC	Solipuram Tvisha Reddy	Phytochemical Screening, Quantification And Evaluation Of Antibacterial And	Ms. Shouni Niveditha



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				Antioxidant Properties Of Psidium Guajava.L	
6.	121322056031	BTBCC	T.Likhitanjali	Phytochemical Profiling And Bioactivity Assessment Of Rnr 15048 Variety Of Oryza Sativa (Telangana Sona Rice) Leaf Extract: A Gateway To Drug Discovery	Ms. Shouni Niveditha
7	121322051022	BTZC	Pranali Pawar	Extraction , Characterisation, And Evaluation Of Antimicrobial And Antioxidant Properties Of Secondary Metabolites From Eclipta Prostrata Leaves.	Ms. Shouni Niveditha
8.	121322050001	BTMC	A Mary Sneha	Assessing The Role Of Bioremediation In Heavy Metals Contaminated Soils	Ms. Mini Fernandez
9.	121322050002	BTMC	Anvsl Sarayu	1in-Silico Studies Of Mtnb, Tm14a, Leg2, S10a3 & Ltc4s Proteins Involved In Lung Cancer	Ms. Mini Fernandez
10.	121322050040	BTMC	P.Shravani Shriya	In-Silico Studies Of Mif, Mien1,Naa40,Ralb & Ptges Proteins Involved In Colorectal Cancer	Ms. Mini Fernandez
11.	121322056008	BTBCC	D.Keerthana Goud	In-Silico Studies Of Rbp7, Calml3,C35,Lgalsl & S100-A3 Proteins Involved In Breast Cancer	Ms. Mini Fernandez
12.	121322056010	BTBCC	G. Archana	Exploring Microbial Approaches For The Biorememdiation Of Heavy Metal Contaminated Soils	Ms. Mini Fernandez



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13.	1213220510161	BTZC	Maryam Khanum	Analyzing Physicochemical And Biological Assessment Of Water Quality Of Durgam Cheruvu Lake And Hussain Sagar Lake	Ms. Shruti Joshi
14.	121322051032	BTZC	Syeda Sihaan Qadri	Integrated Analysis Of Physicochemical And Biological Parameters In Water Quality Assessment Of Ibrahim Lake And Mushki Lake	Ms. Shruti Joshi
15.	121322051034	BTZC	Y. Sai Sreeja	Integrative Approaches For Analyzing Physicochemical And Biological Data For Water Quality Monitoring Of Osman Lake And Pragathi Nagar Lake	Ms. Shruti Joshi



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DEPARTMENT OF
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DEPARTMENT OF MICROBIOLOGY
2024-25

S.No.	Date	Activity
1	26-09-2024	Hands On training on Animal inoculation
2	07-02-25	Field trip to Creamline Dairy Products Limited (Jersey)



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DEPARTMENT OF
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Report on Hands On training on Animal inoculation

Date: 26-09-2024

Time: 10:00 AM to 4:00 PM

Brochure:



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**SUSTAINABLE
DEVELOPMENT
GOALS**
SFC supports SDG

DBT STAR COLLEGE
(Under Strengthening Component)

Department of Microbiology

Organizes a
Hands-on Training

Animal Inoculation

Professor Jayashankar Telangana State Agricultural University, Hyderabad.
For B.Sc. IIC Students

Coordinated by

K. Swathi
Assistant Professor

K. Suman
Assistant Professor

Dr. P. Roselin
Associate Professor, HOD - Microbiology

 **26th September, 2024**

 **10:00AM to 4:00PM**

The Department of Microbiology organized hands on training on animal inoculation at Professor Jayashankar Telangana State Agriculture University, Hyderabad under DBT STAR COLLEGE (Strengthening Component) for the B.Sc. students of II year (MB/BC/C & MB/BT/C). Around 30 students and 2 faculty members participated.

Objectives:

1. To acquire practical exposure of the procedures of Animal Inoculation.
2. To understand how to monitor animals for adverse reactions and infection post procedure.



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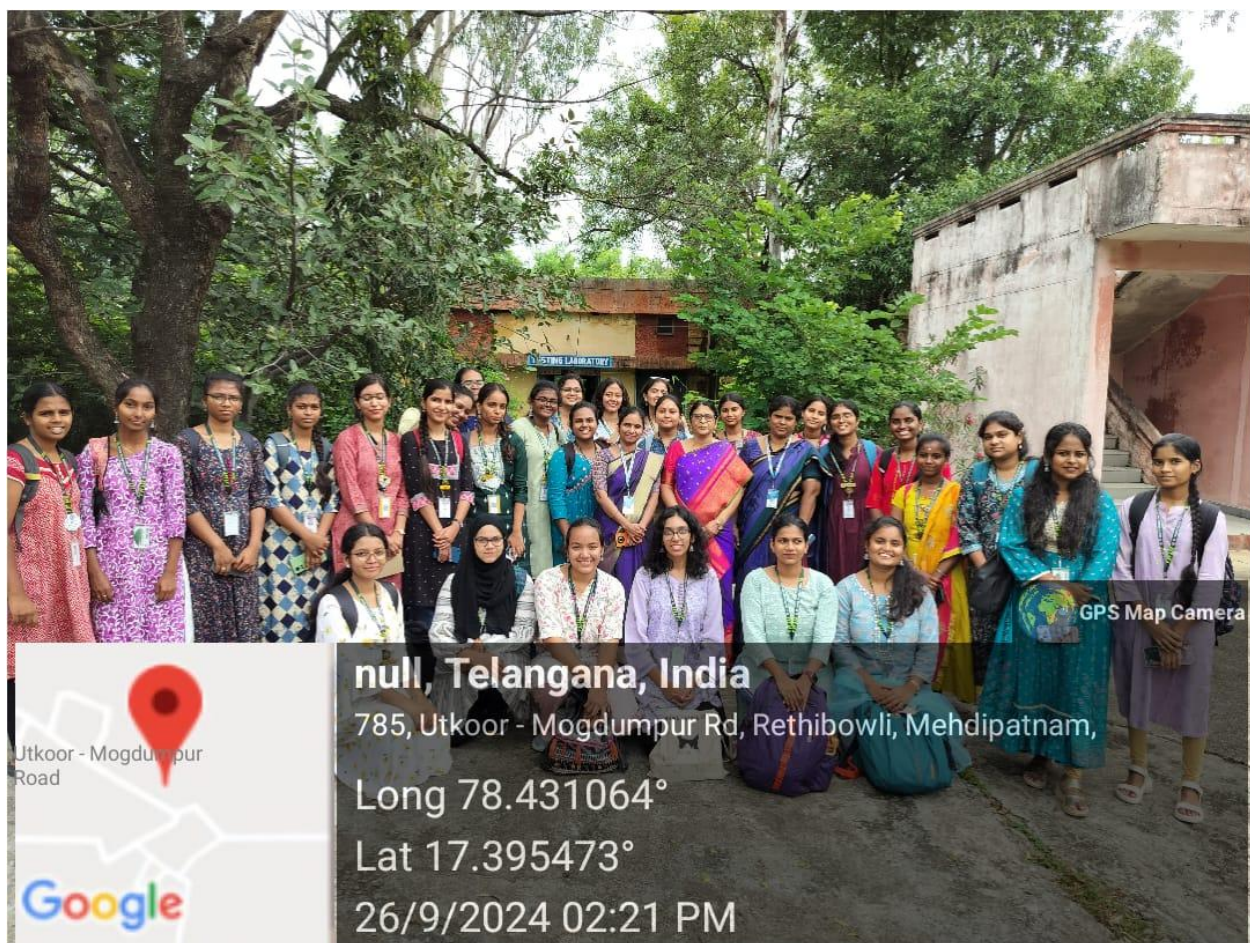


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Outcomes:

1. Students gain firsthand experience in performing various inoculation techniques like Intravenous, subcutaneous and intra muscular.
2. By engaging in hands-on activity improved handling and restraint techniques for minimizing animal stress and ensure safety during procedures.
3. Better comprehension of how animal models are used in disease research and understanding disease mechanism.

Pictures





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S.No	NAME	ROLL NO	Section
	(Autonomous & Affiliated to Osmania University) NAAC Re-accredited with 'A' Grade 4 th Cycle		सत्यमेव जयते
1	AKKULA HIMA BINDU	121323057001	BCMBC
2	CH NANDINI SHRESHTA	121323057005	BCMBC
3	DAKI SAMATHA	121323057007	BCMBC
4	ERALA HARSHITHA	121323057008	BCMBC
5	SABBANA RESHMA SRI	121323057025	BCMBC
6	VADREVV MOUKTHIKA	121323057028	BCMBC
7	AAFREEN SULTANA	121323050001	BTMBC
8	AASHVIKA GUPTA	121323050002	BTMBC
9	ADURI ASHITHA	121323050004	BTMBC
10	ANIREDDY NIKHITA	121323050006	BTMBC
11	ANOUKSHI DWIVEDI	121323050007	BTMBC
12	BALLAM RAMYA VARDHINI	121323050009	BTMBC
13	BONGARALA SANTOSHI	121323050010	BTMBC
14	CHERUKURU LEKHANA	121323050012	BTMBC
15	DEVAHOOTHI KOTA	121323050013	BTMBC
16	GAJULA YASHODA PREETHI	121323050017	BTMBC
17	GUNNA LUDIYA PREETHI	121323050019	BTMBC
18	KATTEBOINA SRUSHITHA YADAV	121323050020	BTMBC
19	KATURI SRI SAI SRI LAKSHMI SAMHITHA	121323050021	BTMBC
20	KIRTANA SATISH	121323050022	BTMBC
21	KONDA GHNANA DEEPIKA	121323050024	BTMBC
22	LAVISHA BALANI	121323050026	BTMBC
23	MEGHNA HARIHARAN	121323050029	BTMBC



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DEPARTMENT OF
BIOTECHNOLOGY

Report on Field trip to Creamline Dairy Products Limited(Jersey)

Date: 07-02-25

Time: 9:00 AM to 4:00 PM

Brochure:

The brochure features a background image of a modern industrial building. It includes logos for St. Francis College, the Department of Biotechnology, and Sustainable Development Goals. The text is centered and uses a mix of blue, red, and white colors.

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DBT STAR COLLEGE
(Under Strengthening Component)

Department of Microbiology

Organizes a
Field Visit to

Creamline Industry

Uppal, Hyderabad.

For B.Sc. Final year IIIC Students

Coordinated by

K. Swathi
Assistant Professor

Dr. P. Roselin
HOD, Associate Professor

07th February, 2025

9:00AM to 4:00PM

The Department of Microbiology organized a field trip to Creamline Dairy Products Limited(Jersey), Uppal , Hyderabad under DBT STAR COLLEGE (Strengthening Component) for the B.Sc. students of III year (MB/BC/C & MB/BT/C). Around 39 students and 1 faculty members participated.

Objectives:

1. To gain hands-on experience with the operations of the dairy product industry and the microbiological processes involved.
2. To comprehend the large-scale production techniques for various dairy products.



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Outcomes:

1. Students acquired knowledge about the operations of various dairy product facilities, including the different phases, machinery, and fermentation processes involved in making diverse milk products.
2. Students noted the necessity for ongoing supervision and meticulous work by industrial workers to deliver dairy products to the market.
3. Students connected their practical experiments and understanding from the Microbiology lab to the dairy sector, recognizing the significance and function of lactic acid bacteria in the dairy industry.

Pictures





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**DEPARTMENT OF
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DBT Consolidated Report
Zoology Department
2024-25

Sl. No	Activity	Topic	Resource person	Date	Time	No of Beneficiaries
1	Guest Lecture	Cancer Infographs https://drive.google.com/file/d/18B8_arjw5yU_ZHRvKwa2W1q2wjfCAkrq/view?usp=drive_link	Prof. A. Roja Rani HoD, Department of Genetics, Osmania University	4th February 2025	9:30am to 10:30 am	200 students
2	Workshop	Hand Building Animal Model using Clay https://drive.google.com/file/d/1xPvmLbIFtUZ0medBCuvOWMI_Xhuzt7xRW/	Ms. Avni M. Mehta Business owner Couple of Potters	22nd February 2025	10 am to 4pm	114 students

		view?usp=drive_link				
3	Field trip	<p>Sericulture Rearing Unit</p> <p>https://drive.google.com/file/d/1CP_V-25f-VXaWlyWtGC76Rz4A-D2zFHI/view?usp=drive_link</p>	Mr. Guttal Reddy Sericulture unit owner, Bussapur, Siddipet , Telangana	7th February, 2025	8:30am to 5pm	55 students and three Teaching Faculty and one Lab staff

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2024 - 2025

DEPARTMENT OF ZOOLOGY

Report on Workshop on “Hand Building Animal Model using Clay”

Date: 22nd February, 2025

Time: 10:00 am to 4:00 pm

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DBT STAR COLLEGE
(Under Strengthening Component)

Department of Zoology
In association with
Couple of Potters
Organizes
One Day Workshop on
“Hand Building Animal Model using Clay”

Resource person :
Avni M. Mehta

...Open for All.... Contact Zoology Dept. to register

Date : 22nd February, 2025 | Time : 10am to 4pm | Venue : Aaram Viram

The Department of Zoology organized a workshop in association with Couple of Potters on “**Hand Building Animal Model using Clay**” under DBT STAR COLLEGE (Strengthening Component) for all the students of Zoology and also for other streams. Around 114 students and 4 faculty members participated. The resource person for the event was Ms. Avni M. Mehta, Business owner Couple of Potters, 8-7-116/36 Nagi Reddy Colony Rd Shutter no. : 2 & 3, Secunderabad, Telangana 500015.

Objectives:

- To Dive into the world of clay and craft something truly beautiful, a unique work of Art.
- To experiment with hand building techniques and to bring out imagination into life.
- To use Eco friendly clay as a structural material for sustainability and is perceived as an economical assurance building material.

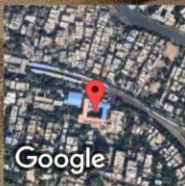
Outcome:

- Enriching experience of hand building techniques in creating animal models using clay that tends to the manageable triple main concern of economics matters, social and natural necessities.

Pictures







Hyderabad, Telangana, India
St. Francis College For Women, 6, Street Number 6, Uma Nagar,
Begumpet, Hyderabad, Telangana 500016, India
Lat 17.437675° Long 78.461201°
22/02/2025 04:03 PM GMT +05:30



ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2024 - 2025

DEPARTMENT OF ZOOLOGY

Report on Field Trip to SERICULTURE REARING UNIT

Date: 7th February, 2025

Time: 8:30 am to 5:00 pm



The Department of Zoology organised a field trip to sericulture rearing unit, under strengthening component - DBT star college scheme to the farm house of Mr. Guttal Reddy located at Bussapur, Siddipet, Telangana State, on 7th February, 2025. Three teaching staff along with a lab assistant accompanied 52 final year students of B.Sc IIIA & IIIN. Students had an enriching experience and learnt the skill of rearing silkworms on a large scale for silk production.

Objectives :

The objective of the field visit was to provide students with practical exposure and in-depth understanding of sericulture. This includes:

1. To educate students on the specific methods and techniques used in the rearing of silkworms.
2. To gain insights into the overall processes involved in sericulture, from silkworm cultivation to silk production.
3. To offer hands-on experience in the field to enhance students' practical skills and complement their theoretical knowledge.
4. To deepen students' knowledge of sericulture and its economic and cultural importance in the region.

5. To stimulate interest and inspire future studies or careers in sericulture and related fields.
6. To provide a foundation for future academic and research endeavours in the field of sericulture.

Outcome:

1. Practical Knowledge: Students gained hands-on experience in the rearing techniques and methods of rearing silkworms.
2. The visit deepened students' understanding of sericulture processes, from egg incubation to silk extraction.
3. Exposure to real-world sericulture practices helped students develop practical skills relevant to their studies.
4. The field trip sparked a greater interest in sericulture among students, encouraging further exploration and study in this field.
5. Interaction with experts and researchers at the centre provided valuable networking opportunities and insights into career paths in sericulture.
6. The experience inspired ideas for future academic and research projects related to sericulture.

Pictures





GPS Map Camera
Venkatapur, Telangana, India
Bussapuram Rd, Venkatapur, Telangana 502114, India
Lat 18.06856° Long 78.761871°
07/02/2025 12:59 PM GMT +05:30
Google







ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2024 - 2025

DEPARTMENT OF ZOOLOGY

Report on Guest Lecture on World Cancer Day Date: 22nd February, 2025

Time: 9:30 am to 10:30 pm

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DEPARTMENT OF ZOOLOGY
Organizes an Awareness Program
Guest Lecture
on the occasion of "World Cancer Day"

"Cancer Infographs"

4th February, 2025 **9:30am to 10:30am**

MBA Seminar Hall

Coordinated by

Dr. Jyothi Rani
Head, Department of Zoology

Dr. Vidya Jayaram
Associate Professor

Ms. Sravanthi
Assistant Professor

Dr. Padmini
Assistant Professor

Prof. Anupalli Roja Rani
M.Sc., Ph.D., PDF (USA)
Fellow Telangana Academy of Science
Member, American association for advancement in science
Active Member, American Association for Cancer Research.
Department of Genetics
Osmania University, Hyderabad, Telangana-500007

4th Feb
World Cancer Day
Theme 2025
"United by Unique"

For B.Sc. I, II & III year Students of Zoology

On the occasion of "World Cancer Day" the Department of Zoology organised an awareness program for the students of Ist, IInd & final year students of Zoology on 4th February, 2025. Prof. Anupalli Roja Rani, Head, Department of Genetics, Osmania University is the resource person. She spoke on the topic "**Cancer Infographs**" highlighting the risk of Cancer and its prevention. Around 200 students participated and benefitted by this talk.

Objectives:

To create cancer awareness amongst the students.

To dispel the myths that people wrongly believe.

To keep students informed about the signs and symptoms, and importance of screening for early detection.

To follow a healthy lifestyle, and sharing of survivor stories gives a message of hope and confidence.

Awareness about cancers and cancer screening procedures will help in early diagnosis and subsequent treatment and a better outcome.

Outcome:

Awareness about cancers and cancer screening procedures will help in early diagnosis and subsequent treatment and better results.

pictures:









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DEPARTMENT OF
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DEPARTMENT OF MATHEMATICS 2024-25

S.No.	Date	Activity
1	24/7/2024	Hands on Training on MATLAB in Linear Algebra and Numerical Analysis
2	4/2/2025	Hands on training on Vedic Mathematics
3	17/2/2025	Guest Lecture on Proposed strategies for achieving an A grade -Insights from a Mathematical Model



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DEPARTMENT OF
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Hands on Training on MATLAB in Linear Algebra and Numerical Analysis

Date: 24-07-2024

Time: 9:00 AM to 3:00 PM

Brochure:



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DBT STAR COLLEGE
(Under Strengthening Component)

Department of Mathematics

Organizes

Hands-on Training on

**Matlab in Linear Algebra
and
Numerical Analysis**



24th July, 2024



9.00am to 3.00pm



UG Computer Lab

Resource Person



Dr. Mohatar Reza
Associate Professor, HOD,
In-Charge Principal
Department of Mathematics
School of Science
GITAM (Deemed to be) University,
Rudraram, Hyderabad .

Resource Person



Dr. Abhishek
Assistant Professor,
Department of Mathematics
School of Science
GITAM University
Rudraram, Hyderabad

For M.Sc. II(Maths) B.Sc. Final year (B, D, E & H) Selected Students

The Department of Mathematics organized hands-on Training on, under DBT STAR COLLEGE (Strengthening Component) “ Matlab in Linear Algebra and Numerical

Analysis ”, on 24th July 2024 from 9 am to 3 pm. The resource persons for the sessions were Dr. Mohatar Reza, Associate Professor, HOD, In-Charge Principal, Department of Mathematics, School of Science, GITAM (Deemed to be University), Hyderabad and Mr. Abhishek, Assistant Professor, Department of Mathematics, School of Science, GITAM (Deemed to be University), Hyderabad. Around 30 students from BSc final year physical sciences and PG attended the workshop.

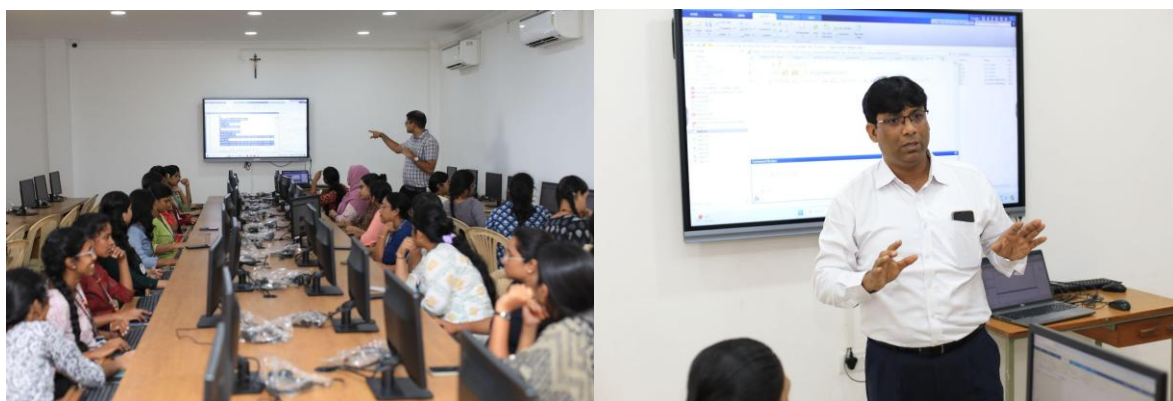
Objectives:

1. To educate the students on the basic syntax and operations of MATLAB which will enable them to solve Mathematics problems

Outcomes:

- Students will grasp core concepts like matrix operations, vector spaces, eigenvalues, and eigenvectors, and understand how to implement these in MATLAB.
- Understanding numerical methods for solving equations, interpolation, numerical integration, and differential equations

Pictures:







St. Francis
College for Women
Begumpet, Hyderabad-500016
(Autonomous & Affiliated to Osmania University)
NAAC Re-accredited with 'A' Grade 4th Cycle



जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY

Report on “ VEDIC MATHEMATICS ” workshop

Date: 04-02-2025

Time: 10:00 AM to 3:00 PM

Brochure:

The brochure features a light blue background with mathematical symbols and geometric shapes. On the left is the St. Francis College for Women logo. In the center, the text reads: **DBT STAR COLLEGE** (Under Strengthening Component) **Department of Mathematics** Organizes **Hands-on Training on** *"Vedic Mathematics"* by **Ms. Punam Agarwal**. On the right, it lists the participants: **Students of** B.Sc II D (10:40am - 12:40pm) and B.Sc I B (1:10pm - 3:10pm), and the date: **on 4th February, 2025**. Logos for the Department of Biotechnology and Sustainable Development Goals are also present.

The Department of Mathematics organized hands-on Training on,” VEDIC MATHEMATICS”, under DBT STAR COLLEGE (Strengthening Component) on 4th February 2025 from 10 am to 3 pm. The resource person for the sessions was

Ms.Punam Agarwal,M.Sc Mathematics, Vedic Maths expert. Around 50 students from BSc II D MSCs (Morning Session) and 70 students from BSc IB (MPC and MPCs) attended the workshop.

Objectives:

1. To improve problem solving skills and enable individuals to perform complex calculations mentally without relying on a calculator

Outcomes:

- Improves cognitive abilities and mathematical confidence of the students
- Improves Academic Performance.

Pictures:





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BIOTECHNOLOGY

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2024 - 2025

DEPARTMENT OF MATHEMATICS

Guest Lecture “Proposed strategies for achieving an A grade -Insights from a Mathematical Model”

Date: 17-02-2025

Time: 30:00 PM to 4:00 PM

Brochure:

DBT STAR COLLEGE
(Under Strengthening Component)
Department Of Mathematics
St. Francis College for Women
In Association with
Indian Women and Mathematics
Organizes A Lecture By



Dr. Maria Hadjinicolsou

Professor in Applied Mathematics,
Hellenic Open University, Patras,
Greece

Date : 17th February, 2025

Time : 3:00 to 4:00 pm

Venue : Capitanio Hall

**Proposed Strategies for Achieving an 'A' Grade :
Insights from a Mathematical Model**

How is knowledge acquired? What is the most effective strategy for achieving top scores in exams? What happens if knowledge is not only acquired but also lost over time? We aim to answer these questions using a mathematical model. This model explores the learning process and considers various factors, including the total time spent studying, the specific subject matter, individual skills, motivation, prior experience with the material and the interaction with student's environment.



The Department of Mathematics organized a guest lecture on “Proposed strategies for achieving an A grade -Insights from a Mathematical Model” under DBT STAR COLLEGE (Strengthening Component) for on 17th February 2025 from 3pm to 4 pm. The resource persons for the sessions was Dr. Maria Hadjinicolsou, Professor in applied Mathematics, Hellenic Open University, Patras, Greece. Around 150 students from BSc II B,D,E and BSc Honors attended the workshop.

Objectives:

1. To offer a structured framework for academic excellence, enabling students to systematically enhance their grades

Outcomes:

- Development of Critical Thinking and Problem-Solving Skills
- Application of Mathematical Models to Personal Study Plans

Pictures:



