



St. Francis

College for Women

Begumpet, Hyderabad-500016

(Autonomous & Affiliated to Osmania University)
NAAC Re-accredited with 'A' Grade 4th Cycle



सत्यमेव जयते

जैवप्रौद्योगिकी विभाग

DEPARTMENT OF
BIOTECHNOLOGY

DEPARTMENT OF MICROBIOLOGY

2023-24

S.No.	Date	Activity
1	20/02/2024	National Seminar on Artificial Intelligence in Disease Diagnosis
2	15/02/2024	Field trip to Crown Beverages
3	02/02/2024	Field trip to Agri Biotech Foundation
4	05/01/2024	Hands on Training in Microscopic Techniques
5	14/12/2023	Field trip to Creamline Dairy Products Limited (Jersey)
6	28/11/2023	Hands on Training on Statistical tools for data Analysis



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DEPARTMENT OF BIOTECHNOLOGY

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National Seminar on Artificial Intelligence in Disease Diagnosis

1. Brochure:

Click here to Register

FREE REGISTRATION

<https://forms.gle/p3gr9rmURCGKPM3X9>

For more details

Contact us:

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✉ microaurclub@gmail.com

Chief Patron

Dr. Uma Joseph
Principal

Advisor

Sr. Carmely Thaniath
Correspondent

Patrons

Dr. Sr. Sujatha Yeruva
Vice Principal, Administration

Dr. Mallika Shetty
Vice Principal, Academics

Dr. M. Shailaja Raj
Vice Principal, R&D

Convener

Dr. P. Roselin
Head, Department of Microbiology

Co-convener

Dr. Arsheen Tabassum
Asst.Prof, Department of Microbiology

Organizing Committee

Dr. Anitha Thomas, Dr. B. Aruna,
Dr.V. Gayatri, Ms. D. Sunita,
Ms. K. Swathi, Ms. K. Suman

MICROAURA@SFC

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DEPARTMENT OF BIOTECHNOLOGY

SUSTAINABLE DEVELOPMENT GOALS
SFC Supports SDG

DBT STAR COLLEGE
(Under the Strengthening component)

DEPARTMENT OF MICROBIOLOGY

organizes a
National Seminar
on

“Artificial Intelligence in Disease Diagnosis”

Date: 20th February, 2024
Time: 9:00 a.m - 4:00 p.m
Venue: Capitania Hall

“FUTURESAPES OF AI DIAGNOSIS”

POSTER PRESENTATION

TOPIC: AI in Healthcare
LANGUAGE: English
2 members in a group

----- Showcase Your Creative Brilliance! -----

DEADLINE: Kindly send the softcopy of the abstract by 17th February, 2024

First 3 prize winners will be awarded and participation certificates will be provided to all the participants

Register here (FREE)
<https://forms.gle/pqhvZVjLmFMSGaAs7>

VENUE: CAPITANIO HALL, UG BLOCK 1st FLOOR
ST. FRANCIS COLLEGE FOR WOMEN

DATE: 20th FEBRUARY
TIME: 9 AM - 4 PM

FREE REGISTRATION

“Click here to Register”

LIGHTS CAMERA CURE!! - AI HEALTHCARE VIDEO SHOWDOWN

“AI: Your Prescription for Tomorrow's Health Innovations!”

VIDEO DURATION: 3 mins maximum
FILE FORMAT: .mp4 .mov format

TOPIC: AI IN HEALTH CARE
LANGUAGE: ENGLISH
2 Members in a group

DEADLINE!
17th FEBRUARY!



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2. Objectives:

- To understand AI's potential for improving the detection of uncommon diseases, providing access to healthcare through telemedicine, practicing predictive and preventative medicine.
- To discuss major AI related issues like data quality, interpretability and ethics.
- To learn about the different AI models in clinical decision-making for enhanced diagnostic precision.

3. Expected Outcomes:

- The attendees will develop a deeper understanding of AI's impact on medical imaging, disease diagnosis and the ability to leverage AI technologies responsibly for improved patient care and healthcare outcomes.
- Integrating AI into healthcare holds excellent potential for improving disease diagnosis, treatment selection and clinical laboratory testing.
- It will create opportunities for networking, collaboration, and partnership-building among seminar participants, fostering a community of practice dedicated to advancing AI in disease diagnosis.
- Students will be enlightened about the various job opportunities and career options in the field of Artificial intelligence and machine learning.

4. Participation Details:

Overall, 256 participants joined the seminar both online and in person from different institutes from all over India:

1. St. Francis College for Women,
2. Bhavan's Vivekananda College,
3. Little Flower Degree College,
4. Pratibha Degree College



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5. Aligarh Muslim University (AMU), Aligarh,
6. Amity University,
7. Ayya Nadar Janaki Ammal College,
8. Dr. Babasaheb Ambedkar Marathwada University Sub-campus Osmanabad,
9. GD Rungta College of Science and Technology, Bhilai,
10. Government medical College, Surat,
11. ICFAI University, Tripura,
12. Kalinga Institute of Medical Sciences, Bhubaneswar,
13. Savitribai Phule Pune University.

- Students: 240
- Research Scholars: 4
- Faculty: 12

5. Organizing Members:

Dr. M. Shailaja Raj, Vice Principal R& D, Dr. P. Roselin, Head, Department of Microbiology,
Dr. Arsheen Tabassum, Organizing Secretary and MicroAura@SFC.

5. Date and Time:

20th February, 2024 from 9:00am to 5:00pm

6. Venue:

Capitanio Hall, 1st Floor, UG Block, St. Francis College for Women, Begumpet.

7. Detailed Report:

Plutarch, a philosopher from ancient Greece, once stated, “The mind is not a vessel to be filled but a fire to be kindled”, and when minds are ignited, remarkable accomplishments follow. The National Seminar on AI in Disease Diagnosis, served as a place where knowledge kindled the minds of the attendees, significant achievements are sure to follow.



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The National Seminar on AI in Disease Diagnosis, brought together leading experts, researchers, teachers and students to explore the transformative role of artificial intelligence (AI) in healthcare. With 300 participants from all over the country, the seminar provided a platform for learning, knowledge exchange, and collaboration. The seminar was organised by the Department of Microbiology as the strengthening component of DBT Star College Scheme on 20th February, 2024 at St. Francis College for Women, Begumpet.

The day commenced with the inaugural ceremony of the seminar, where the prayer was led by M.Sc. Microbiology students. This was followed by the lighting of the lamp, which served as a reminder that where there is light, darkness cannot exist, and knowledge enlightens our minds to build a bright future. Dr. Uma Joseph, our principal, addressed the audience and discussed the latest trends of AI across various domains. Following this, Dr. M. Shailaja Raj, Vice Principal R&D, proceeded to discuss the initiation of the seminar while outlining its objectives and expected outcomes.

The Chief Guest of the National Seminar was Dr. Arvind M. Deshmukh, President, Microbiologists Society, India. He provided insights on current advances in Science and Technology and the need to determine existing global issues using sustainable approach, including upcoming era of progressive AI dependent lifestyle. The keynote address was given by Dr. Zahoorullah, Chief Innovation Officer, Atal Incubation Centre, ALEAP WEHUB. He highlighted the importance of innovations and artificial neural networking in the field of healthcare. He provided information on the various AI enabled technological advancements. He mentioned about product innovation, service innovation and process innovation. Following the keynote address, Dr. Arsheen Tabassum, Co-Convener and Organizing Secretary MicroAura@SFC, delivered the vote of thanks, marking the conclusion of the inaugural ceremony.

The seminar consisted of four sessions, each led by an expert resource person, Dr. Ravi Kiran Manapuram, Founder, Medevplus, spoke about beyond imaging AI revolution in optical coherence tomography for medical and life sciences. Dr. Sushmitha Sundar, Director,



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Research and Innovation, Circle of Hyderabad highlighted AI in disease diagnosis and importance of AI in medical imaging and pathology.

Dr. Rupjyoti Talukdar, Director, Pancreatology, AIG, Hyderabad gave insights on AI in treatment of various diseases. Mr. Manuj Vangipurapu, Founder / CEO Clinion IT Services Pvt. Ltd., was the guest of Honor for valedictory. He spoke on AI in clinical trials and gave insights into career opportunities in life sciences.

Competitions like Poster presentations and Video making were held for students. The competitions showcased a diverse array of creative and informative entries from participants. The day culminated with the valedictory ceremony, during which the competition winners were honoured, the best student awards were presented, and appreciation awards were given to students who actively participated in MicroAura@SFC.

The seminar served as a catalyst for innovation, inspiring participants to harness the power of AI to drive positive change in healthcare delivery and disease management.

7. Photos:





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Chief Guest Address



Key note address by Dr. Zahoorullah.



Dr. Sushmitha Sundar's session on importance of AI in medical imaging and pathology.



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Dr. Ravi Kiran's session on AI revolution in optical coherence tomography



Dr. Rupjyoti Talukdar judging the poster presentation competition.



Felicitation of Mr. Manuj Vangipurapu



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DEPARTMENT OF
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ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2023-2024
DEPARTMENT OF MICROBIOLOGY

Report on Field trip to Crown Beverages

Date: 15-02-2024

Time: 9:00 AM to 4:00 PM

Brochure:

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DBT STAR COLLEGE
(Under the Strengthening Component)

Department of Microbiology
organizes a
Field Trip to
Crown Beverages Pvt. Ltd
Sangareddy, Telangana
For B.Sc. III C Students

Date : 15- 02-2024 | Time : 09.30 A.M to 4.00 P.M | Venue : Sangareddy

The department of Microbiology organized a field trip to Crown Beverages, Sangareddy for the BSc III C students (BcMbC & BtMbC). A total of 38 students accompanied by one faculty member (Ms K Suman) participated in the program.

OBJECTIVES:

1. To acquire practical exposure to sustenance of quality at industrial level.
2. To understand fermentation technology



Outcomes:

1. Students gained knowledge about fermenter construction, operation and sterilization methods.
2. Students learnt the importance of seed tanks, quality control of beverages, Hops.
3. Students practically seen how Quality sustenance in Industry is maintained, monitored, verified and corrected if required.
4. Students learnt how quality of a final product is maintained, checked and rejected even with minute errors.
5. “Seed to Sip” was the entire journey of the field trip which included fermentation, production and quality maintenance of final product.

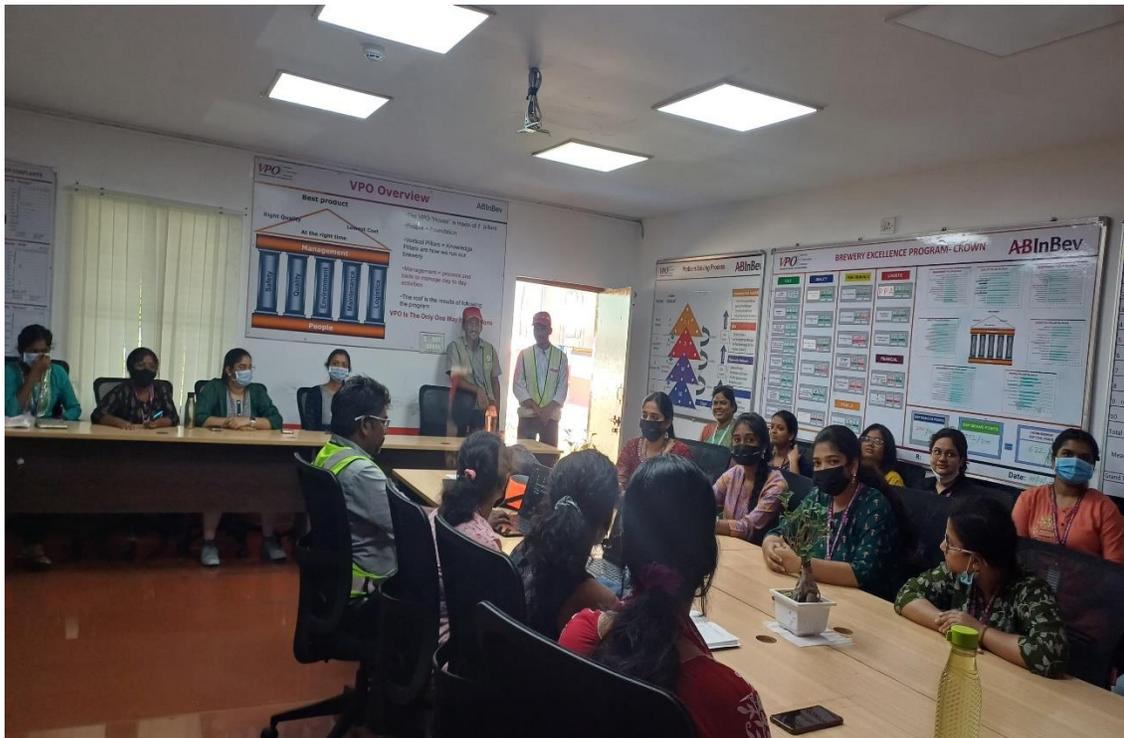




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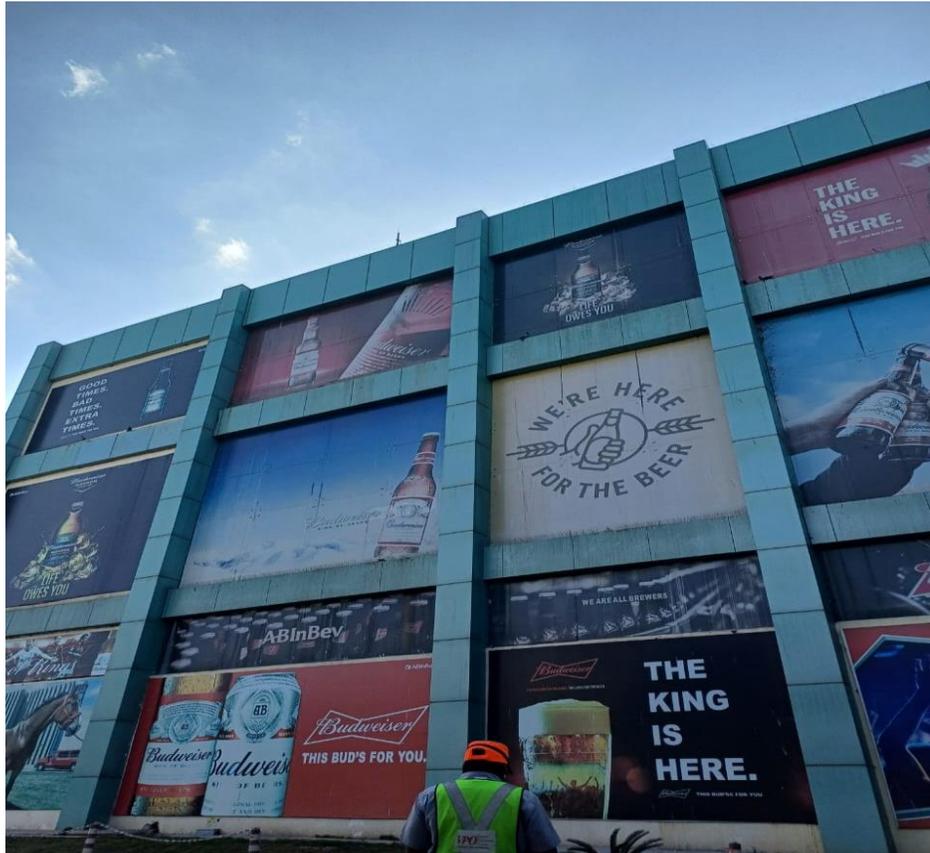
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ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2023 - 2024

DEPARTMENT OF MICROBIOLOGY

Report on Field trip to Agri Biotech Foundation

Date: 02-02-2024

Time: 9:00 AM to 4:00 PM

Brochure:

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DBT STAR COLLEGE
(Under the Strengthening Component)

Department of Microbiology
organizes a
Field Trip to
Agri Biotech Foundation
Rajender Nagar, Hyderabad, Telangana
For B.Sc. II C Students

Date : 02- 02-2024 | Time : 09.00 A.M to 4.00 P.M | Venue : Rajender Nagar

The Department of Microbiology organized a field trip to Agri Biotec Foundation, Rajender Nagar, Hyderabad for the B.Sc. students of II year (BT/MB/C & BC/MC/C). Around 24 students and 1 faculty members participated.

Objectives:

1. To acquire practical exposure of the functioning of agriculturally important microorganisms and tissue culture was involved in it.
2. To understand the importance of microorganisms in agriculture and uses of tissue culture.



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Outcomes:

1. Students gained an understanding about the important methods used in agriculture. Students learned about the different methods of microorganisms used in agriculture, isolation method, sampling procedure, tissue culture.
2. Students observed how constant monitoring, patience and careful working is required to grow each microorganism and tissue cultures.
3. Students were able to relate their Microbiology lab practical experiments and knowledge in the laboratory and understand the importance and role of each agricultural microorganisms and the cultivation process.

Pictures





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 **GPS Map Camera**



Google

Hyderabad, Telangana, India

8CF7+57V, Acharya Ng Ranga Agricultural University, Rajendranagar mandal, Hyderabad,
Telangana 500030, India

Lat 17.322972°

Long 78.412967°

02/02/24 04:34 PM GMT +05:30



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St. Francis

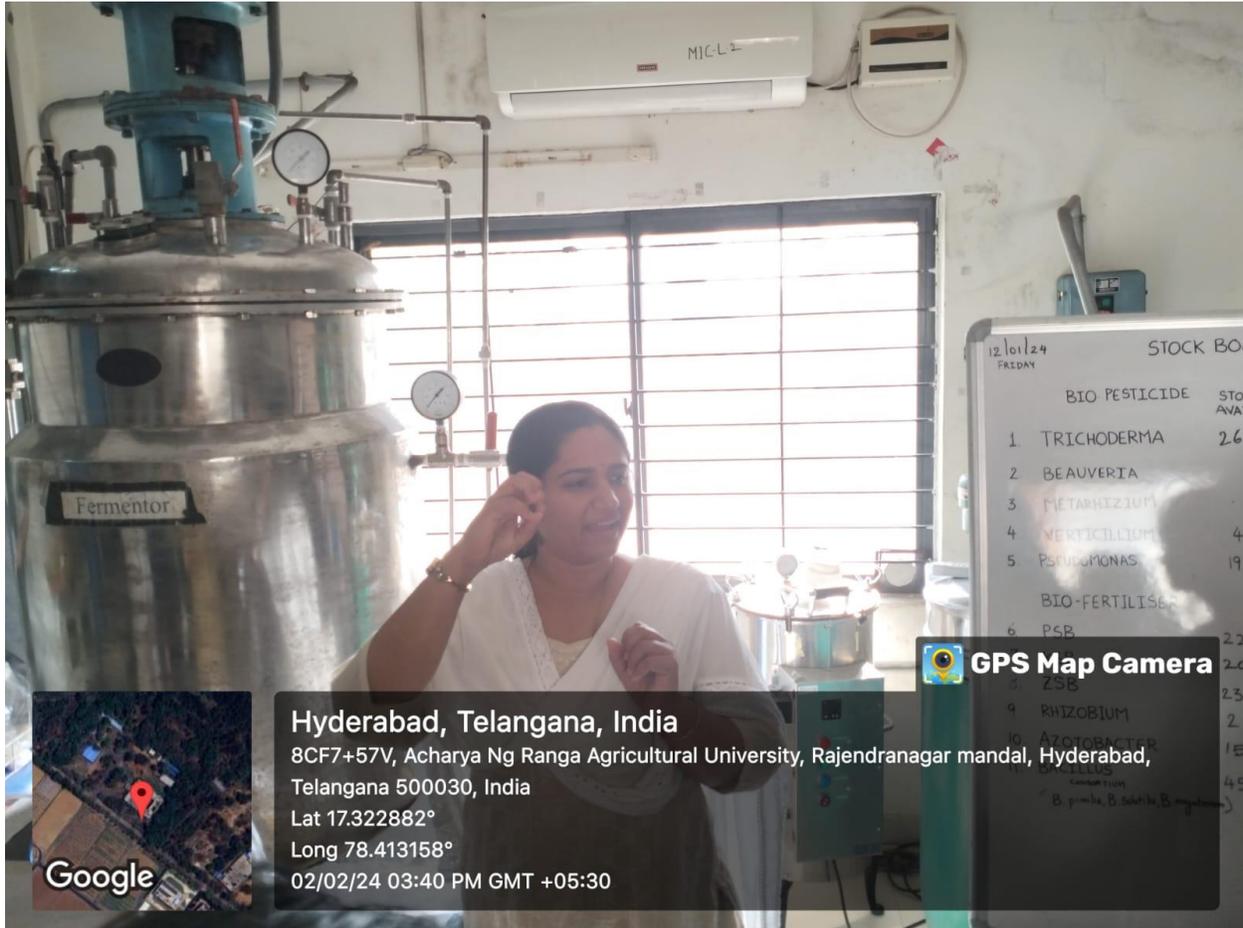
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Google

Hyderabad, Telangana, India

8CF7+57V, Acharya Ng Ranga Agricultural University, Rajendranagar mandal, Hyderabad,
Telangana 500030, India

Lat 17.322882°

Long 78.413158°

02/02/24 03:40 PM GMT +05:30



GPS Map Camera

STOCK BOA	
BIO-PESTICIDE	
1	TRICHODERMA 26
2	BEAUVERIA
3	METARHIZIUM
4	VERTICILLIUM 4
5	PENICILLIUM 19
BIO-FERTILISER	
6	PSB 22
7	ZSB 20
8	NSB 23
9	RHIZOBIUM 2
10	AZOTOBACTER 15
MISCELLANEOUS	
B. pumila, B. subtilis, B. megaterium	



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

REPORT ON “HANDS ON TRAINING IN MICROSCOPIC TECHNIQUES”

DATE: 05.01.2024

TIME: 11:20-12:20

BROCHURE:

The brochure features a green and yellow background. On the left is the St. Francis College for Women logo. In the center, it reads 'DBT STAR COLLEGE (Under the Strengthening component) Department of Microbiology organizes a "Hands on Training in Microscopic Techniques"'. Below this, it lists 'Resource Speakers' Dr. P. Roselin (HoD, Microbiology) and Dr. Arsheen (Asst. Professor, Dept. of Microbiology). A yellow box at the bottom states 'For B.Sc. IC Students'. On the right, there is a logo for the Department of Biotechnology and Sustainable Development Goals (SDG).

The Department of Microbiology organized a “HANDS ON TRAINING IN MICROSCOPIC TECHNIQUES” under DBT STAR COLLEGE (strengthening component) for the students of BSc.1C (BTMBC & BCMBC). Around 71 students and 2 faculty members participated. The resource persons for the event were Dr. P. Roselin (Head, Department of Microbiology, Dr. Arsheen Tabassum (Asst. Professor, Department of Microbiology) St. Francis College for Women, Hyderabad.

OBJECTIVES:

- The objective of the hands-on training in microscopic instruments is to equip students with practical skills and in-depth knowledge required for effective utilization of various microscopic tools in the study of microorganisms.
- The training aims to enhance participant's proficiency in handling and operating different types of microscopes, thereby fostering a comprehensive understanding of microbiological techniques and specimen analysis.

OUTCOMES:

- **Instrument Proficiency:** students have gained hands-on experience in the operation of various microscopic instruments, including Compound microscope, Phase contrast microscope and Bright field microscope. They could develop a good level of proficiency in adjusting settings, focusing techniques, and image capturing.
- **Specimen Preparation:** students have learned the proper techniques for specimen preparation, staining, and mounting for microscopic analysis. This includes mastering skills in fixing, staining, and handling microscope.
- **Microscopic Analysis:** Through practical sessions, students have acquired the ability to identify and analyze different types of microorganisms such as Bacteria and Fungi. This includes understanding the morphology, structure and identification of microorganisms.

PICTURES:





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ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD

ACADEMIC YEAR 2023 - 2024

DEPARTMENT OF MICROBIOLOGY

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

Date: 14-12-2023

Time: 9:00 AM to 4:00 PM

Brochure:

The brochure features a green and yellow background with a farm scene at the bottom. It includes logos for St. Francis College, DBT STAR COLLEGE, the Department of Biotechnology, and Sustainable Development Goals. The text is centered and reads: 'St. Francis College for Women Begumpet, Hyderabad-500016 (Autonomous & Affiliated to Osmania University) DBT STAR COLLEGE (Under Strengthening Component) Department of Microbiology organizes a Field Trip to Creamline Dairy Products Limited Uppal, Hyderabad, Telangana - 500039 For B.Sc. Final Year Microbiology Students Date : 14 -12-2023 | Time : 09.00 A.M to 4.00 P.M | Venue : Uppal'.

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 30 students and 1 faculty members participated.

Objectives:

1. To acquire practical exposure of the functioning of the dairy product industry and the microbiological procedures involved in it.
2. To understand the industrial level manufacturing methods of different dairy products.



Outcomes:

1. Students gained an understanding of the functioning of different dairy product units. Students learned about the different stages, machines and fermentation involved in the preparation of different milk products.
2. Students observed how constant monitoring and careful working of the industrial workers was required to bring the dairy products to the market.
3. Students were able to relate their Microbiology lab practical experiments and knowledge in the dairy industry and understood the importance and role of lactic acid bacteria in the dairy industry.

Pictures





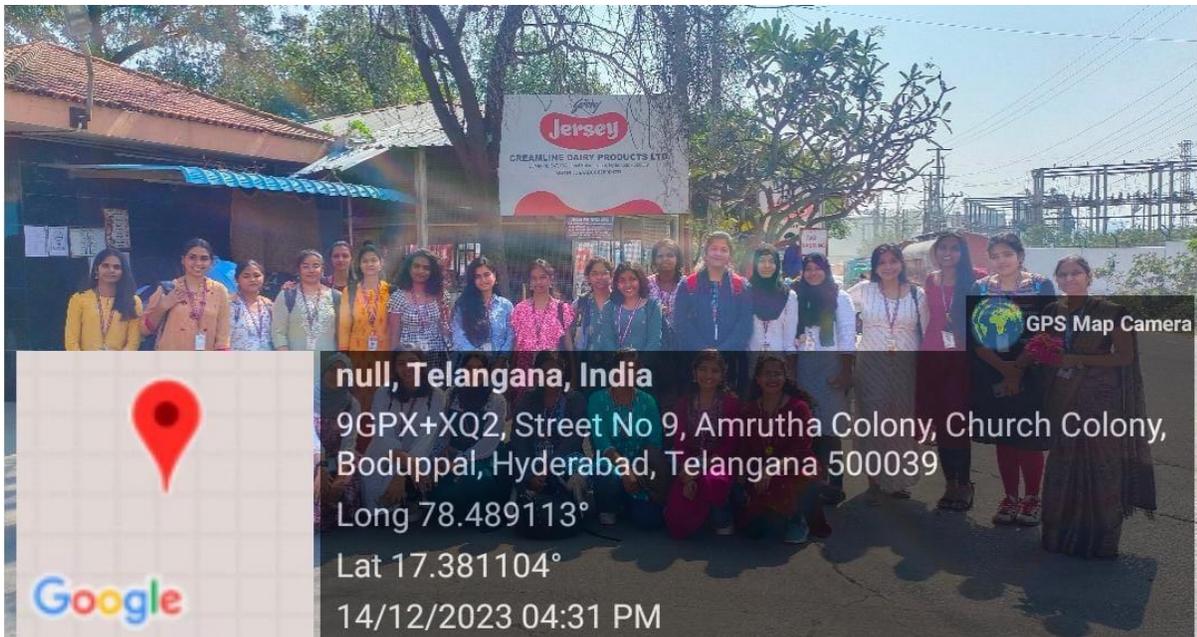
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ACADEMIC YEAR 2023 - 2024

DEPARTMENT OF MICROBIOLOGY

Report Hands on Training on Statistical tools for data Analysis

Date: 28th November 2023

Time: 10:45- 1:00 P.M

Brochure:

The brochure is a colorful flyer with a blue and green background. It features the logos of the Department of Biotechnology, St. Francis College for Women, and Sustainable Development Goals. The text is centered and reads: 'DBT STAR COLLEGE (Under the Strengthening component) Department of Microbiology organizes a Hands on Training "Statistical Tools for Data Analysis" For B.Sc. Final Year Students'. A circular portrait of Dr. N. Padmaja is shown on the left, with her name and title below it. At the bottom, a red banner contains the date, time, and venue: 'Date : 28 - 11 - 2023 | Time : 10:45 am to 1:00 pm | Venue : Capitanio Hall'.

The Department of Microbiology organized Hands on training on the topic Statistical Tools for Data Analysis under DBT STAR COLLEGE (Strengthening Component) for the B.Sc. students of III year (MB/BC/C & MB/BT/C). Around 46 students and 4 faculty members participated. The resource person for the event was Dr. N . Padmaja (Associate Professor, Vignana Jyothi Institute Of Management.)



Objectives:

1. The training is designed and planned for B.Sc final year students to Acquaint them about various data tools.
2. To Help students to carry out their undergraduate projects by using statistical tools for Data Analysis.

Outcomes:

1. The training outlined the principles and methods that are involved in planning, designing, analyzing, interpreting, and collecting the data by Microsoft Excel, SPSS, SAS, POWER BI, and TABLEAU which are statistical tools.
2. Students had used SPSS software for data analysis, to solve algebraic, arithmetic, and trigonometric operations.
3. The lecture with hands on training helped students in understanding the significance of “Statistical tools for data Analysis” in the area of research.

Pictures

