



St. Francis

College for Women
Begumpet, Hyderabad-500016

(Autonomous & Affiliated to Osmania University)



जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY

सत्यमेव जयते

DBT STAR COLLEGE SCHEME

ANNUAL REPORT 2024 - 2025

ST. FRANCIS COLLEGE FOR WOMEN, BEGUMPET - HYDERABAD

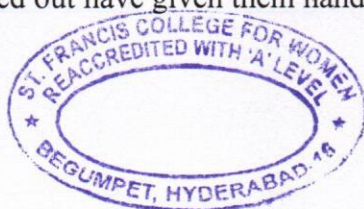
St.Francis College for Women

Annual Progress Report supported under Star College Scheme, 2024-25

1. Name of the College: St Francis College for Women
2. Name of the coordinator: Dr. Gayatri. V
Designation : Associate Professor, Dept. of Microbiology
Address : St. Francis College for Women,
Begumpet, Hyderabad
Phone No: 9704103888
3. Assessment duration: 01/04/2024 to 31/03/2025 Duration in years : 1 year
4. Details of Departments Supported

Sl No	Name of Department	Courses (B.Sc./M.Sc./PG Diploma, certificate etc) offered	Regular Faculty members	
			With Ph.D.	Without Ph.D.
			Total = 82	
1	Biochemistry & Nutrition	B. Sc	3	9
2	Botany & Biotechnology	B. Sc	3	3
3	Chemistry	B. Sc , M. Sc	10	7
4	Computer Science	B. Sc, M.Sc	1	19
5	Mathematics & Statistics	B. Sc, M. Sc	4	4
6	Microbiology	B. Sc , M. Sc	7	1
7	Physics & Electronics	B. Sc	1	4
8	Zoology	B. Sc	3	1

5. Number & Date of Advisory committee meeting: 16 (Principal, DBT Coordinator, HoD's and Coordinators of each participating department)
Date 09.07.2024 - Orientation for plan of activities for the current year
25- 03-2025 - Orientation to Budgeting and Annual report preparation
6. Qualitative improvements due to DBT support.
 - Experiential learning was enhanced through field visits, which reinforced their theoretical & practical knowledge.
 - Projects work carried out have given them hands-on training.



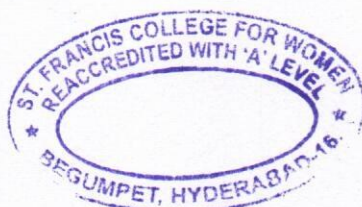
- Guest lectures provided expertise in a topic and added credibility to the curriculum content.

Summary:

Projects	4
Student & faculty training program	3
Guest Lectures & Workshops	10
Field trips	4
Outreach Activity	1
National seminars/ Conferences	1

1. **Projects:** About four students have completed the projects which focused on scheme's objectives promoting research and skill development in science. The projects were carried out using the instruments procured through the DBT grant of the previous year. The project areas included plasmid isolation in bacteria, their role in multi drug resistance and plant growth dynamics using hydroponic methods.

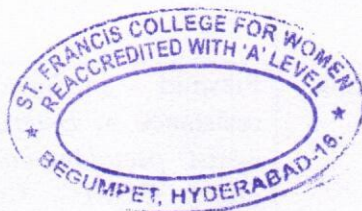
S.No	Roll Number	Names of the Students	Topic	Name of the Institution Joined
1	121322057023 BSc BCMBC	V Rishitha	Plasmid mediated multi drug resistance in <i>Enterobacter cloacae</i> sp against <i>pseudomonas aerogenosa</i> sp and <i>E-coli</i> , Counteraction of <i>Syzygium aromaticum</i>	St.Francis College for Women
2	121322050011 BSc BTMBC	G Charitha Naidu	Role of Plasmid-Mediated resistance in MDR Strains of <i>Aerococcus viridans</i> and the bactericidal activity of <i>Syzygium aromaticum</i> Extract.	St.Francis College for Women
3	121322055019 ANBC	Padala Sreehitha	Growth dynamics: Comparining Lettuce and Spinach in hydroponic and soil cultivation methods.	Dr. S Revathi
4	121322055025 ANBC	Saniya Vaishnav	Soil or Hydroponics: A comparative analysis of growth parameters in Bok choy and Red amaranthus	



2. **Outreach:** The science department organized social outreach programme GLEE for school students to introduce scientific temper in them, Around 30 science live experiments and models were designed and demonstrated to the students.
3. **Student and Faculty training:** Hands on training programmes for students were organized to cultivate a productive and engaging learning environment. Five programmes were organized across various departments.
4. **Guest lectures/ Workshops:** To enhance learning experience and gain valuable insights from experts across various fields, guest lectures and workshops were organized a total of 7 guest lectures and workshops were organized this year.
5. **Field Trips:** The departments of the college have organized 5 field trips to enhance students learning experiences and provide them with practical exposure to their academic subjects. These trips include visits to industries, institutes, research centers and natural reserves depending on the subjects being studied and the objectives of the trip.

Link for the details of Qualitative improvements due to DBT support.

7. Any Novel aspect introduced or planning to introduce during the Scheme duration.

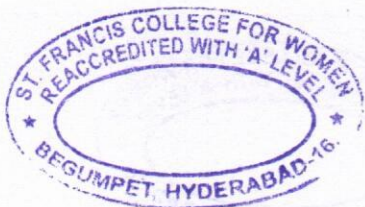


Activity	Novel aspects introduced or planning to introduce
Project based learning	Research on: <ul style="list-style-type: none"> • MDR Strains and role of plasmid in Drug resistance. • Growth dynamics in plants.
FDP	-
Workshop	<ul style="list-style-type: none"> • Workshop on: • Advance building smart IOT Learning introduced for BSc Final Year Students. • Hand On IoT Training. • Hands On training on Animal inoculation.
New experiments	<ul style="list-style-type: none"> • Estimation of micro nutrients. • Determination of gluten formation. • Assesment of nutritional assessment using body composition analyser. • Building a smart classroom.
New approaches	<ul style="list-style-type: none"> • Integrated digital alternatives for animal dissections by acquiring software for virtual dissections and simulations, fostering knowledge and skill development.
Entrepreneurship	<ul style="list-style-type: none"> • Hands-on training in building animal models using clay, rearing silkworms for silk production, and applying vermiculture & vermicomposting techniques to promote entrepreneurship.

8. Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant. (Max 3 points within 300 words).

• **Lessons learnt:**

- Incorporating DBT, expanded the Department's capacity to enhance its infrastructure with IoT Kits, purchased with the previous grant. This gave the opportunities to undergraduate students to engage in IoT based learning. Which in the coming year can be incorporated in their projects.
- The release of grant was delayed and couldn't perform many activities as kept in proposal. Hence planning to continue in the next academic year with the financial support of DBT.

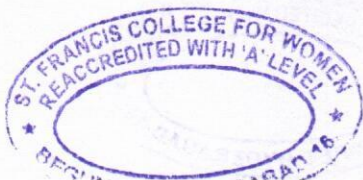


• **Difficulties/Suggestions:**

The Departments faced difficulty in conducting the activities proposed as grants were not received.

8. Key performance indicators

S.No.	Indicator	Pre-support (2022-2023)	During Support (2023-2024)	During Support (2024-2025)	Remarks
1.	No. of students admitted	Total =1067	Total =1215	Total =1156	
		Only Females	Only Females	Only Females	
		SC ST OBC GEN 82 24 325 636	SC ST OBC GEN 102 21 535 557	SC ST OBC GEN 74 28 378 676	
2.	No. of student passing out (%) Students Admitted/passing out (pass %)	UG-94%	UG -89%	UG -90%	
3.	Drop-out rates	3%	4%	2%	
4.	No. of Student opting for M.Sc	600	700	700	
5.	Average marks	8.20	8.41	8.5	
6.	No. of hands-on experiments being conducted	U. G Curriculum based experiments.			All the activities proposed could not be completed as the grant was not received.
		Biochemistry & Nutrition	3	5	
		Botany & Biotechnology	6	2	
		Chemistry	7		
		Computer Science	1	1	
		Mathematics & Statistics	1	1	
		Microbiology	2	1	
		Physics & Electronic	3		
7.	No. of new experiments introduced	Zoology	2	1	
		Biochemistry & Nutrition	4	3	
		Botany & Biotechnology	3	1	
		Chemistry	2		
		Computer Science	1	1	
		Mathematics & Statistics			
		Microbiology	1		
		Physics & Electronic	2		
8.	Publications (Scopus indexed) / patents, if.any				
9.	Training received by faculty and student		36	5	
10.	Exhibitions/seminars / Training courses conducted	Biochemistry & Nutrition	5		
		Botany & Biotechnology	10	2Field trips- 50 students	
		Chemistry	4	1 National seminar- 142	
		Computer Science	4	1 workshop – 30	
		Mathematics & Statistics	1	1 Field trip – 160 student	



		Microbiology	5	1 Field trip – 30	
		Physics & Electronic	4		
		Zoology	1	1 workshop – 30 students, 1 Field Trip – 100	
11.	Books/journals subscribed from grant		41		
12.	Outreach activities – (Popular lectures)		2	1	
13.	Colleges mentored to apply for DBT Star College grants				
14.	Invited lectures	Biochemistry & Nutrition	3	3	
		Botany & Biotechnology	2	1	
		Chemistry	3		
		Computer Science	2		
		Mathematics & Statistics		1	
		Microbiology	5		
		Physics & Electronic	1		
		Zoology	1	1	

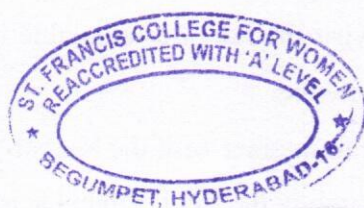
- Proofs (S.No. 6-14 not more than 5 pages, 1.5 line spacing 11 times roman font size) to be provided duly attested by Principal and Coordinator.

6.Hands-on experiments being conducted:

Advanced Smart IoT solutions workshop for students



Exhibitions/seminars /training courses conducted:



DEPARTMENT OF BIOTECHNOLOGY

Field trip to School of Life Sciences at Hyderabad Central University

The Department of Biotechnology organized a field trip to the School of Life Sciences at Hyderabad Central University for final-year BSc Biotechnology students on 30th July, 2024. This field trip involved two staff members and a total of 54 students. Students acquired knowledge of the applications of PCR, LCMS, fluorescence, laser confocal, gel documentation system, atomic absorption spectrophotometer, circular dichroism spectroscopy, MALDI-TOF and plant tissue culture techniques.



DEPARTMENT OF BOTANY

Field Trip to “Department of Plant Science, University of Hyderabad”

Gachibowli, Hyderabad.

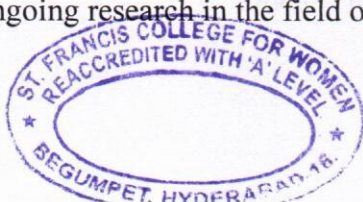
The Department of Botany organised a field trip to the Department of Plant Sciences, University of Hyderabad for the III-year students of BZC and ANBC. Around 34 students and two faculty members participated.

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.





School of Life Sciences, Hyderabad Central University
DEPARTMENT OF COMPUTER SCIENCE
Two-day workshop on “Advance Building Smart IoT Solutions”
Conducted on July 25&26 2024.



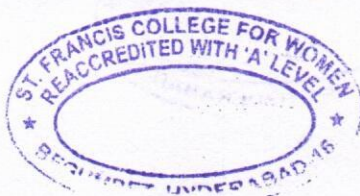
The Department of Computer science had organized a two-day workshop on Advance building smart IOT solutions on 25th and 26th July, 2024. The resource person was Satish Rao, IOT coach, IOT users club. The Workshop was organized for BSC final year (B, D, E, H) selected students in CS lab 7, Computer science department, SFC.

Objective:

- To provide a comprehensive overview of technologies and platforms in the field of the Internet of Things (IoT). The workshop aimed to provide hands-on experience in building and managing IOT devices, sensors and understanding them better.
- To focus on practical and theoretical knowledge about the Internet of Things (IOT) using Arduino, NodeMCU, and IOT platforms.

Outcome:

- Students installed libraries, modified code and set board in Arduino which is ESP 8699 wifi module. They created a ted channel in ThingSpeak iot platform and transferred data. Also worked with MQTT Client app and modified the data.



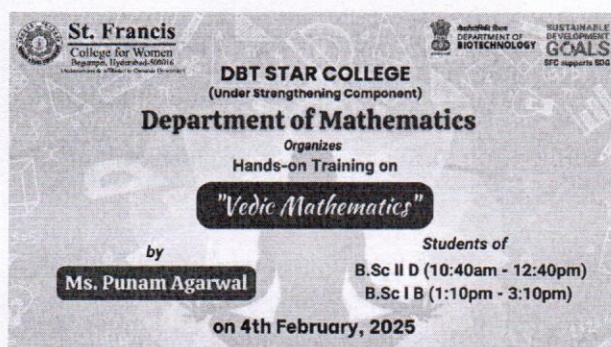
- This workshop successfully demonstrated the integration of hardware and software to create a simple IoT application. Students were able to connect the NodeMCU to a Wi-Fi Network, send data to ThingSpeak at regular intervals, work with Arduino and sensors, and also create application on kodular platform.
- Participants gained hands-on experience in building and managing IoT Devices, which will be beneficial for future projects and endeavors in the IoT domain.

DEPARTMENT OF MATHEMATICS

“VEDIC MATHEMATICS” workshop

Date: 04-02-2025

Time: 10:00 AM to 3:00 PM



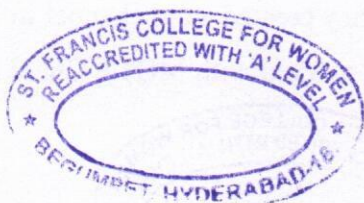
The Department of Mathematics organized hands-on Training on,” VEDIC MATHEMATICS”, under DBT STAR COLLEGE (Strengthening Component) on 4th February 2025 from 10 am to 3 pm. The resource person for the sessions was Ms.Punam Agarwal,M.Sc Mathematics, Vedic Maths expert. Around 50 students from BSc II D 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.

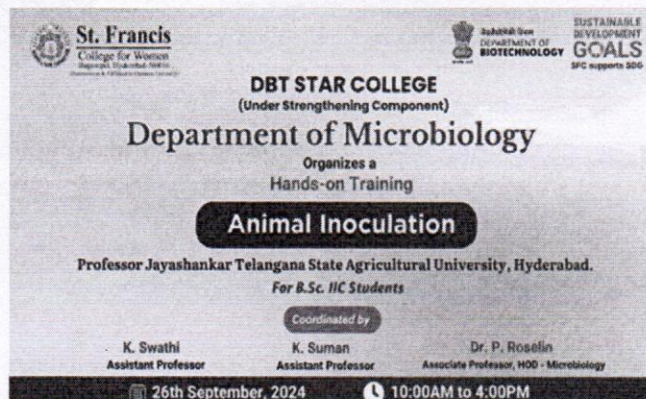


DEPARTMENT OF MICROBIOLOGY

Hands On training on Animal inoculation

Date: 26-09-2024

Time: 10:00 AM to 4:00 PM



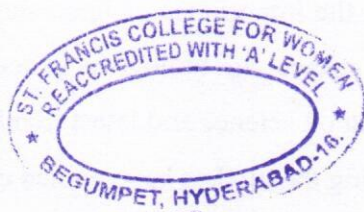
The Department of Microbiology organized hands-on training on animal inoculation at Professor Jayashankar Telangana State Agriculture University, Hyderabad under DBT STAR COLLEGE (Strengthening Component) for the B.Sc. students of II year (MB/BC/C & MB/BT/C). Around 30 students and 2 faculty members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

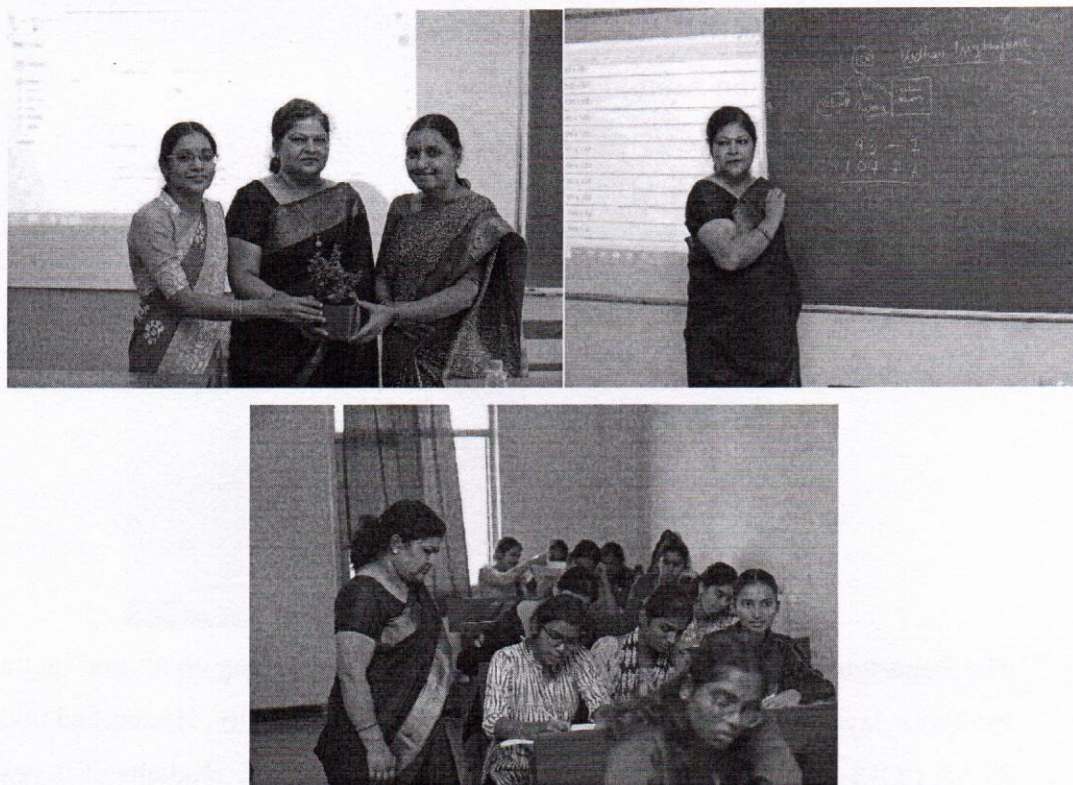
Objectives:

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.

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.





DEPARTMENT OF BIOCHEMISTRY

GLEE 2024

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

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

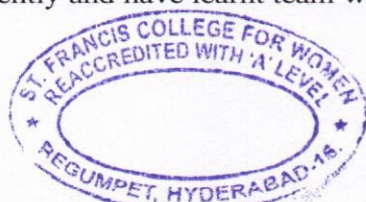
Spectrum Club represented by the thirteen departments of Life Sciences and Physical Sciences, conducted its two days annual outreach program Glee on 25th November and 26th November.

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.

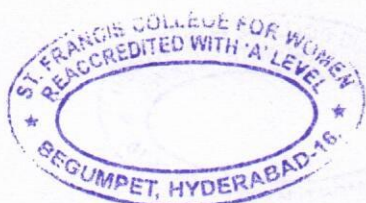


Outcome:

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.

**7. New experiments Introduced:**

Department	Experiment
Biochemistry and Nutrition	<ul style="list-style-type: none">• Estimation of micro nutrients.• Determination of gluten formation.• Assessment of nutritional assessment using body composition analyzer.
Computer science	Building a smart classroom

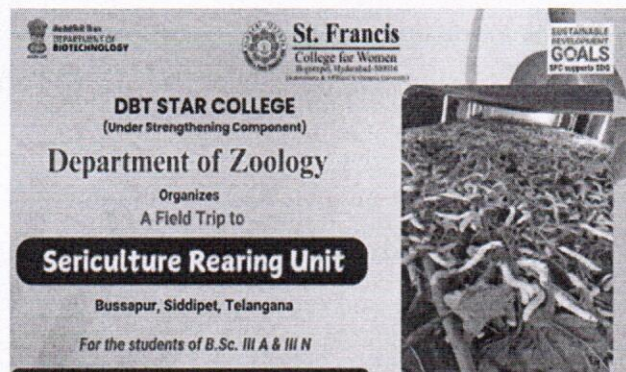
8. Publications (Scopus indexed) /patents, if any: NIL**9.Outreach and Training received by faculty**

DEPARTMENT OF ZOOLOGY

Field Trip to SERICULTURE REARING UNIT

Date: 7th February, 2025

Time: 8:30 am to 5:00 pm

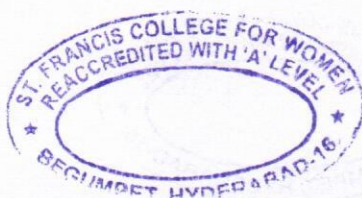


The Department of Zoology organised a field trip to sericulture rearing unit, under strengthening component - DBT star college scheme to the farm house of Mr. Guttal Reddy located at Bussapur, Siddipet, Telangana State, on 7th February, 2025. Three teaching staff along with a lab assistant accompanied 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.



DEPARTMENT OF BIOCHEMISTRY

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

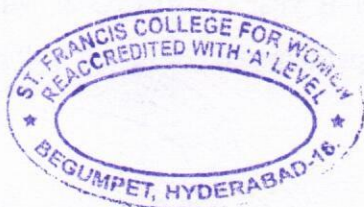
Report:

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.

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
- 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.



9. Exhibitions/seminars/ /training courses conducted:

“VEDIC MATHEMATICS” workshop

Date: 04-02-2025

Time: 10:00 AM to 3:00 PM

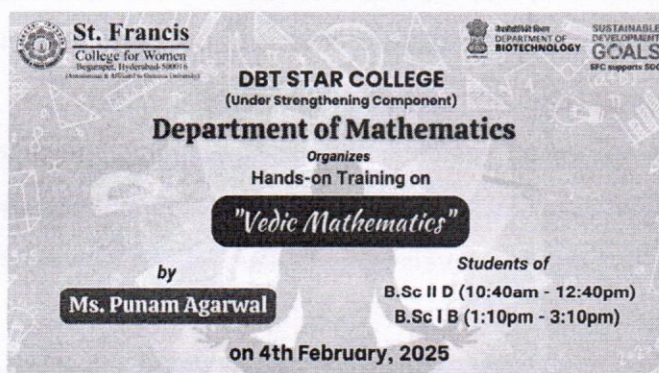
The Department of Mathematics organized hands-on Training on,” VEDIC MATHEMATICS”, under DBT STAR COLLEGE (Strengthening Component) on 4th February 2025 from 10 am to 3 pm. The resource person for the sessions was Ms.Punam Agarwal,M.Sc Mathematics, Vedic Maths expert. Around 50 students from BSc II D MSCs (Morning Session) and 70 students from BSc IB (MPC and MPCs) attended the workshop.

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

Outcomes:

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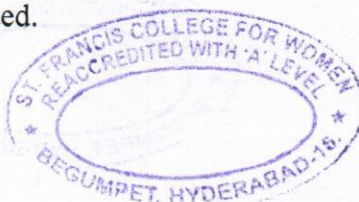
DEPARTMENT OF MICROBIOLOGY

Hands On training on Animal inoculation

Date: 26-09-2024

Time: 10:00 AM to 4:00 PM

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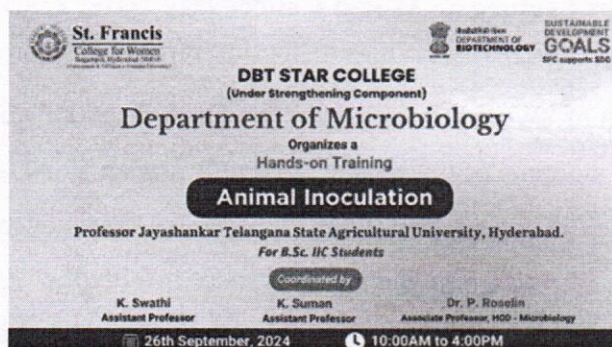


Objectives:

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.

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.

**11. Books/journals subscribed from grants****12. Outreach activities (Popular lectures):****GLEE 2024**

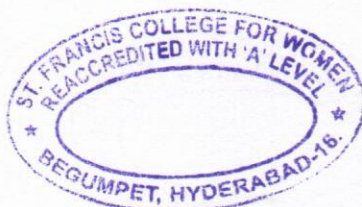
Date: 25th November, 2024 and 26th November, 2024 and Time:

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

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.

13. Colleges mentored to apply for DBT Star College grants: None, as we have just started the scheme.

14. Invited lectures:**DEPARTMENT OF ZOOLOGY**

Report on Guest Lecture on World Cancer Day Date: 22nd February, 2025 Time: 9:30 am to 10:30 pm

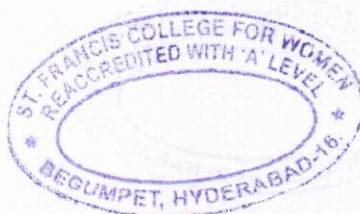
On the occasion of “World Cancer Day” the Department of Zoology organised an awareness program for the students of Ist, IInd & final year students of Zoology on 4th February, 2025. Prof. Anupalli Roja Rani, Head, Department of Genetics, Osmania University is the resource person. She spoke on the topic “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.



DEPARTMENT OF MATHEMATICS

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

Date: 17-02-2025

DBT STAR COLLEGE
(Under Strengthening Component)
Department Of Mathematics
St. Francis College for Women
In Association with
Indian Women and Mathematics
Organized & 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 : Capitania 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.



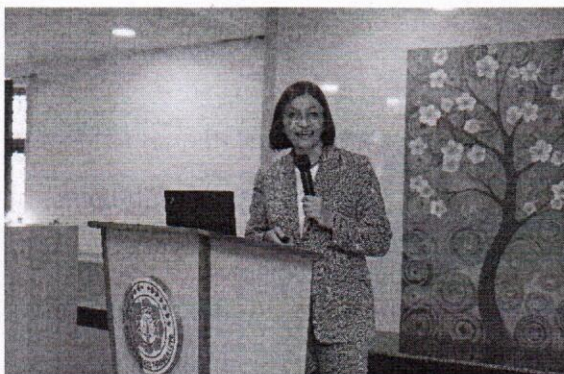
The Department of Mathematics organized a guest lecture on “Proposed strategies for achieving an A grade -Insights from a Mathematical Model” under DBT STAR COLLEGE (Strengthening Component) for on 17th February 2025 from 3pm to 4 pm. The resource persons for the sessions were Dr. Maria Hadjinicolsou, 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:

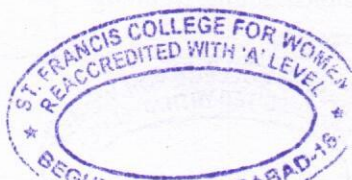
1. To offer a structured framework for academic excellence, enabling students to systematically enhance their grades

Outcomes:

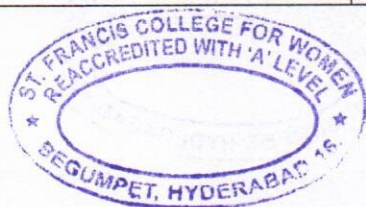
- Development of Critical Thinking and Problem-Solving Skills
- Application of Mathematical Models to Personal Study Plans



10. Self-evaluation



Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
Biochemistry Nutrition	<ol style="list-style-type: none"> 1. Project work (Completed) 2. Visit to reputed laboratories (Completed) 3. Guest lecture on Cancer research (Completed) 4. Workshops (Completed) 5. New experiment based on new instrument purchase (Completed) 	100%	Quantitative metrics – 12/12
Botany & Biotechnology	<ol style="list-style-type: none"> 1. Project work (Complete) 2. Visit to reputed laboratories (Completed) 3. Gel electrophoresis practical (Yet to complete) 4. Hydroponics based studies (implemented) 5. Field visit to research institute-completed 6. National seminar -completed 	75%	<ul style="list-style-type: none"> • Workshops on gel electrophoresis technique will be planned in the academic year 25-26. • Quantitative metrics – $\frac{3}{4}$
Computer Science	<ol style="list-style-type: none"> 1. Project Work (Completed) 2. Faculty Improvement Program 3. Skill Enhancement Courses (Course on IoT was initiated) 4. Industrial Training (Yet to be done) 	70%	IoT kits are used in training the final IOT requirement and projects will be completed in the coming academic year. Quantitative metrics – 4/5
Microbiology	<p>To meet the corporate requirements by organizing skill enhancement courses.</p> <p>To train students and help them gain experience in higher learning through Interdisciplinary approaches</p>	25%	The release of grant was delayed and couldn't perform many activities as kept in proposal. -2/5
Zoology	<ul style="list-style-type: none"> • To augment the Curriculum with add on practical sessions in the respective areas to abreast the students with latest procedures and techniques. • To create an interface between academics, research institutes and industries for one-to-one interaction among the experts, faculty and the students. • To augment/enhance knowledge of faculty and lab staff through training programmes • To inculcate scientific temperament and research culture for holistic development of the students. • To have better infrastructure and lab facilities with the latest equipment for effective practical demonstrations, teaching-learning process & research. 	70%	Lack of time to conduct as grant was not received.



* For quantitative analysis you may fix five objective (max) each having 2 marks and accordingly can calculate the matrix.

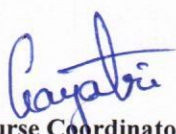
Not opened ☐ Under process ☐ Opened but not mapped on PFMS ☐ Account is functional ☒

ZBSA Status: (Mark Check Box):


Remarks if, any: _____

11. Sanctioned Budget details: (Rs. in Lakhs)

Head	Total Released Budget from DBT	Total Expenditure	Balance as on	Remarks if any
Grants for creation of capital assets (Non- recurring)	-	-	-	-
Grants-in-aid General (Recurring)	-	116410	-	-


Course Coordinator
(With Seal)

Department of Microbiology
St. Francis College for Women
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Head of the Institution
(With Seal)
Principal
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THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES

DEPARTMENT OF PHYSICS
530 SOUTH EAST ASIAN AVENUE
CHICAGO, ILLINOIS 60607

RECEIVED

APR 11 1967

FROM: [illegible]

SUBJECT: [illegible]

[Faint, mostly illegible text in the main body of the letter, possibly containing a list or description of items.]

[Handwritten signature or initials]

Very truly yours,
[illegible]
Director

Enclosure
[illegible]
[illegible]