



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

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD
ACADEMIC YEAR 2024 – 2025

DEPARTMENT OF COMPUTER SCIENCE

List of events under Star DBT

S. No	Name of the Event	Date
1	Advance Building Smart IoT Solutions	25&26 July,2024.
2	Field Trip to Indian Space Research Organization	19th July,2024



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ACADEMIC YEAR 2024 – 2025

DEPARTMENT OF COMPUTER SCIENCE

Report on the two-day workshop on “Advance Building Smart IoT Solutions”

Conducted on July 25&26 2024.

Time: 9:00 a.m-4:00 p.m.

Brochure:

The brochure features a light blue background with a yellow brushstroke effect behind the main title. It includes logos for St. Francis College for Women, the Department of Biotechnology, and Sustainable Development Goals. The text is centered and uses various colors (blue, red, yellow) for emphasis.

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DBT STAR COLLEGE
(Under Strengthening Component)
Department of Computer Science
Organizes
C@nnect 7.4
Hands-on Training on
“Advance Building Smart IoT Solutions”
For B.Sc. Final Year (B, D, E & H) Selected Students
Date : July 25 & 26, 2024

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**SUSTAINABLE
DEVELOPMENT
GOALS**
SFC supports SDG

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, St. Francis college for women.4 Faculty Coordinators: Ms. Savitri Ms. Renuka.



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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 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.



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Pictures





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ACADEMIC YEAR 2024 – 2025

DEPARTMENT OF COMPUTER SCIENCE

**Report on the Field Trip to Indian Space Research Organization (ISRO/NRSC,
Jeedimetla, Hyderabad)**

Conducted on 19th July, 2024.

Time: 8:00 a.m-3:00 p.m.

Brochure:

The brochure features a light blue background with a faint illustration of a rocket. At the top left is the St. Francis College for Women logo. At the top right are the Government of India logo and the Department of Biotechnology logo, along with the Sustainable Development Goals logo. The central text reads: **DBT STAR COLLEGE** (Under Strengthening Component), **Departments of Computer Science & Mathematics** Organizes a Field Visit to **ISRO / NRSC** Jeedimetla, Hyderabad. At the bottom, it specifies the date **19th July, 2024** and the time **8:00am to 3:00pm**. A dark blue footer bar contains the text **Attendees : UG II year Physical Science & MSc Mathematics Students**.

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DBT STAR COLLEGE
(Under Strengthening Component)

Departments of Computer Science & Mathematics
Organizes a
Field Visit to
ISRO / NRSC
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19th July, 2024 8:00am to 3:00pm

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Department of computer science along with Mathematics has organized **Indian Space Research Organization** on **19th July,2024**. The resource person for the same was **T. Shanker Prasad, Sci./Eng.-Sf, Training, Education & Outreach Group**. The event was organized for **2nd Year Physical Science And M.sc Mathematics Students** in **National Remote Sensing Center (NRSC), Jeedimetla, Hyderabad**.

Faculty Coordinators: Ms. Preethi and Ms. Renuka.

Objective:

- To provide insight into the workings of India's premier space research and development agency.
- To understand the various functions and operations of NRSC, to learn about current and upcoming space programs and to inspire students towards pursuing careers in space science and technology

Outcome:

- A comprehensive presentation by the Scientists highlighted NRSC's significant achievements, including the Chandramana and Mangalyaan missions.
- Students visited the exhibits, where we observed the meticulous process of satellite assembly and testing.
- This Field Trip provided students with a deeper appreciation of the complexities involved in space exploration and the immense dedication
- The field trip concluded with a feedback session, where Students Interacted with Scientists of the NRSC team who shared their invaluable knowledge with the participants.



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Caption: Exhibit Models

