



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

ST. FRANCIS COLLEGE FOR WOMEN, HYDERABAD ACADEMIC YEAR 2023 – 2024

DEPARTMENT OF COMPUTER SCIENCE

List of events under Star DBT

Sno	Name of the Event	Date
1	Building IoT Solutions	January-February 2024
2	Hackathon	23rd January 2024
3	Ideathon - Quiz	23rd January 2024
4	Field trip to Backstage Pass	21st February 2024
5	FDP on “Smart IoT Solutions”	13th,14th March 2024
6	FDP on “Insights on AI & ML”	18th March 2024



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

Report on Hands – on Training on “Building Smart IoT Solutions”

Date: Jan - Feb 2024

Brochure:

The brochure features a blue and yellow background. At the top left is the St. Francis College for Women logo. To its right is the text 'St. Francis College for Women Begumpet, Hyderabad-500016 (Autonomous & Affiliated to Osmania University)'. In the center, it reads 'DBT STAR COLLEGE (Under Strengthening Component) Department of Computer Science organizes a Hands-on Training on “Building Smart IoT Solutions” For B.Sc. Second year (B, D, E & H) Selected Students'. At the bottom, a red banner contains the text 'Duration : Jan - Feb 2024 | Venue : CS Lab 7'. On the right side, there are logos for the Department of Biotechnology and Sustainable Development Goals.

The Department of Computer Science organized a **Hands- on Training on “Building Smart IoT Solutions”** under DBT STAR COLLEGE for the B.Sc. II Year students in St. Francis College- CS Lab 7. Around 65 students participated. The resource person was Mr. G.N.L. Ravi Teja, Founder & Manager Tejasya Innovative Solutions and Pvt LTD.



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Session 1:

Date: 4 – Jan -2024

Time: 9am – 3pm

Objective:

- To make students understand the interconnected world of Internet of Things, exploring its applications and impact on various industries.

Outcome:

- Familiarized with various electrical instruments, sensor technologies, data analytics, and real-world examples, providing insights into the transformative potential of technology and communication.
- Updated knowledge on how to run a code through node MCU and light a LED through Arduino software through various time stamps.

Session 2:

Date: 6 – Jan -2024

Time: 9am- 1pm

Objective:

The aim of this session was to run a code through NODE MCU and light two LEDs which glow with different time stamps.

Outcome:

- Students have approached to next level learning on delay of lighting of one LED corresponding to the other LED and controlling two LEDs at same time.
- Students were also able to see the output on screen. The screen prints “ON” when the LED is lit and “OFF” when the LED is off and also learnt about how a half-duplex and a bout baud rate works.



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Session 3:

Date: 11 – Jan -2024

Time: 9am- 3pm

Objective:

The aim of this session was to concentrate on the intensity of LED that is glowing and how the intensity of LED changes with time and learnt how to change the intensity of LED.

Outcome:

- Students were introduced to the concept of sensors and their types.
- Students learnt how to measure the distance using an ultrasonic sensor.
- This session has also taught to calculate temperature and humidity using a device known as DHT (Digital Humidity and Temperature).
- Learnt how the servo motor works and the applications of it along with handling of the motor angle while it rotates.

Session 4:

Date: 16 – Jan -2024

Time: 9am- 3pm

Objective:

The aim of this session was to introduce the concept of LDR (Light Dependent Resistor).

Outcome:

- Familiarized with the concept of finding the moisture level of soil is done using a device known as soil moisture detector.
- Students were also given the insights about the different projects like home automation, soil moisture detector, face recognition device.



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Session 5:

Date: 31 – Jan -2024

Time: 9am- 3pm

Objective:

The aim of this session was to introduce innovative ways to control devices

Outcome:

- Students were taught about how to control devices using another device like a phone, laptop and were able to create a console to control the IoT devices.
- Students learnt to control devices like ultrasonic sensor, LED, soil moisture detector using the console and were introduced to BLYNK an IOT platform used to control Arduino, raspberry pi and Node MCU via the internet.



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**ST. FRANCIS COLLEGE FOR WOMEN,
HYDERABAD ACADEMIC YEAR 2023 - 2024
DEPARTMENT OF COMPUTER SCIENCE**

Report on the event “BLAZE HACKS” on 23rd Feb 2024

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

Brochure:

The brochure is a colorful poster with a blue and yellow gradient background. It features the St. Francis College for Women logo in the top left corner. The text is centered and reads: 'DBT STAR COLLEGE (Under Strengthening Component) Department of Computer Science C@nnect 6.13 Presents An Inter Collegiate Event Blaze Hacks For all II & III year Under Graduate students'. The event details are listed at the bottom: 'Date: 23rd Feb 2024 | Time : 8:00 - 8:00pm | Venue : Computer Lab'. Logos for the Department of Biotechnology and Sustainable Development Goals are also present.

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DBT STAR COLLEGE
(Under Strengthening Component)

Department of Computer Science
C@nnect 6.13
Presents
An Inter Collegiate Event
Blaze Hacks
For all II & III year Under Graduate students

Date: 23rd Feb 2024 | Time : 8:00 - 8:00pm | Venue : Computer Lab

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SUSTAINABLE
DEVELOPMENT
GOALS
SFC supports SDG

The Department of Computer Science organized a **Blaze Hacks (Hackathon)** under DBT STAR COLLEGE for the B. Sc Computer Science students of St. Francis and other college computer science students. 17 students from our college and 17 students from outside colleges participated in the event. First Prize and Second Prize was a tie and each team was given Rs 4000/- . Consolation prize of Rs. 2000/- was given to the 3rd team.

4 Faculty Coordinators : Ms. Afeefa, Ms. Prabhmeet, Ms. Rajeshwari and Ms. Preethi.



Objective:

- To ignite a spark of creativity and collaboration among students through an immersive 12-hour hackathon experience.
- To cultivate a competitive yet supportive atmosphere that encourages participants to push their boundaries in programming, problem-solving, and design.

Outcome:

- Participants unleashed their coding prowess, crafting ingenious solutions to real-world challenges within the adrenaline-fueled timeframe.
- Teams synergized their diverse skill sets, brainstorming, coding, and debugging with fervor to bring their ideas to life.
- Students emerged not only with polished prototypes but also with a sense of achievement, camaraderie, and a newfound passion for tackling complex problems head-on.

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**ST. FRANCIS COLLEGE FOR WOMEN,
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DEPARTMENT OF COMPUTER SCIENCE**

Report on the event “IDEATHON” on 23rd Feb 2024

Time: 10:30 a.m-1:00 p.m.

Brochure:

The brochure is a colorful poster for the IDEATHON event. It features a blue and yellow background. At the top left is the St. Francis College for Women logo. In the center, it reads 'DBT STAR COLLEGE (Under Strengthening Component) Department of Computer Science Presents C@nnect 6.15 IDEATHON For all BSc Science students'. At the bottom, a red banner contains the date, time, and venue: 'Date: 23rd Feb 2024 | Time : 10:30am | Venue : Computer Lab'. Logos for the Department of Biotechnology and Sustainable Development Goals are also present.

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DBT STAR COLLEGE
(Under Strengthening Component)

Department of Computer Science
Presents
C@nnect 6.15
IDEATHON
For all BSc Science students

Date: 23rd Feb 2024 | Time : 10:30am | Venue : Computer Lab

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The Department of Computer Science organized a **Quiz (Ideathon)** under DBT STAR COLLEGE for the B.Sc computer science students of St Francis and other college computer science students.

Around 50 students from our college and 6 students from outside colleges participated and 2 faculties, Ms.Rajeshwari and Ms.Preethi were coordinators for this .

Cash prizes of Rs 2000 each were given to winners with additional Rs. 500 for the best student.



Objective:

- To show cast the talent of students in programming and debugging .
- To show cast their talent in developing wireframe given problem specifications.

Outcome:

- Students enthusiastically participated in the quiz showing their interest in coding
- Students were able to come up with ideas of how well a website could be wire frame given the scenario or problem statement.

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DEPARTMENT OF COMPUTER SCIENCE**

Report on Backstage Pass Institute of Gaming Workshop on Board Game Design

Date: 21-Feb-2024

Time: 9:30 a.m-4:00 p.m.

Brochure:

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DBT STAR COLLEGE
(Under the Strengthening Component)

Department of Computer Science
organizes a
Field Trip to
Backstage Pass Institute of Gaming Technology
Kavuri Hills, Madhapur, Hyderabad, Telangana 500081

For B.Sc Computer Science students

Date : 21- 02-2024 | Time : 09.30 A.M to 4.00 P.M | Venue : Madhapur

The Department of Computer Science organized a Field Trip to Backstage Pass Institute of Gaming Technology under DBT STAR COLLEGE for the B. Sc Computer Science students of St. Francis. The student count for the same was 40 from BSc SE(H) Sem II and IV students. Ms. Prabhmeet and Ms. Afeefa accompanied the students.

Objective:

- To emphasize the importance of a game's destination, objectives, and rewards, advocating for games that are both interesting and time-efficient.
- Building the team working skills of the students by dividing them into groups to design their own board games.



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Outcome:

- The students learnt the fundamentals of board game design, emphasizing principles, game mechanics, and the significance of tokens.
- The students were introduced to MDA framework and other essential elements like theme, storytelling, and gameplay, addressing factors such as player ability, game length, mechanism, and positioning.
- The students were able to showcase their own board games including titles like “Chai Sutta”, “Midnight Mafia”, “Tactical Target”, “Escape from Shabah”, “4’s for 4’s”, and “Serpents Gambit”.
- Participants not only gained theoretical knowledge but also had the hands-on experience of creating their own board game, making it a memorable and enriching event.

Photos:





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DEPARTMENT OF COMPUTER SCIENCE**

**Report on the event A National Level Faculty Development Program on Insight on
AI and ML**

Date: 13 & 14 March 2024

Time: 10:00 a.m-3:00 p.m.

Brochure:

The brochure is a colorful poster with a blue and yellow background. It features the St. Francis College for Women logo at the top left. The main text reads: **DBT STAR COLLEGE** (Under the Strengthening Component) **Department of Computer Science** Organizes **A National level Faculty Development Program On Insight on AI & ML**. Below this, there are four circular portraits of the resource persons: Mr. Mohatesham Pasha Quadri, Ms. Geeta Pattun, Mr. Mohammad Islam, and Mr. Ch. Mutyala Rao. Each portrait is accompanied by their name and title: Assistant Professor, Department of CS & IT, MANU University. At the bottom, a red banner contains the date, time, and venue: **Date : 13 & 14 March 2024 | Time : 10 : 00 to 3 : 00 pm | Venue: Computer Lab**. Logos for the Department of Biotechnology and Sustainable Development Goals are also present.

The Department of Computer Science had organized a National Level Faculty Development Program on “**Insight on AI and ML**” under **DBT STAR COLLEGE**, the Resource for the same are Mr. Mohatesham Pasha Quadri, Ms. Geeta, Mr. Mohammad Islam, Mr. Ch. Mutyala Rao, Assistant Professors Department of CS & IT, MANU University for all the faculty of Department of Computer Science on 13th and 14th March 2024 in CS lab.

Objective:

- To introduce Deep Learning based Machine Translation.
- To cultivate a supportive atmosphere that encourages participants to push their boundaries in problem-solving, and design.



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Outcome:

- Participants acquired a hands-on training on Neural Machine Translation using Open NMT and Google Colab by translating Data in Hindi Language to English.
- The participants were introduced to Challenges faced while decoding emotions in Social Media System.

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DEPARTMENT OF COMPUTER SCIENCE**

**Report on the event Faculty Development Program on “Building Smart IoT
Solutions”**

Date: 18th March 2024

Time: 10:00 a.m-2:00 p.m.

Brochure:

The brochure is a rectangular graphic with a light blue and yellow background. It features the St. Francis College for Women logo in the top left corner. The text is centered and reads: **DBT STAR COLLEGE** (Under Strengthening Component), **Department of Computer Science in Collaboration with IoT Users Club Organizes Faculty Development Program on Building Smart IoT Solutions**. In the top right corner, there are logos for the Department of Biotechnology and Sustainable Development Goals. At the bottom, a red banner contains the event details: **Date: 18th March 2024 | Time : 10:00-2:00pm | Venue : Computer Lab**.

The Department of Computer Science in collaboration with IoT Users Club has organised a Faculty Development Program on **Building Smart IoT Solutions** under **DBT STAR COLLEGE** on 18th march 2024 in CS lab for all the faculty of the Department of Computer Science.



Objective:

- To make participants understand the interconnected world of Internet of Things exploring its applications and impact on various industries.
- The aim of this session was to run a code through NODE MCU and light two LEDs which glow with different time stamps.

Outcome:

- Updated knowledge on how to run a code through node MCU and light a LED



through Arduino software through various time stamps.

- Participants learnt on delay of lighting of one LED corresponding to the other LED and controlling two LEDs at same time.



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