



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 ELECTRONICS

Report on Guest Workshop on “Embedded Systems and IoT Applications”

Date: 15th & 16th December, 2023

Time: 9.00 a.m to 4.00 p.m

Brochure

The brochure is a colorful poster for a 2-day hands-on training workshop. At the top left is the St. Francis College for Women logo. Next to it, the text reads 'St. Francis College for Women Begumpet, Hyderabad-500016 (Autonomous & Affiliated to Osmania University)'. To the right is the DBT STAR COLLEGE logo with the text '(Under Strengthening Component)'. Further right is the Department of Biotechnology logo with the text 'जैवप्रौद्योगिकी विभाग DEPARTMENT OF BIOTECHNOLOGY' and 'SUSTAINABLE DEVELOPMENT GOALS SFC supports SDG'. The main title 'Department of Electronics' is in large blue letters, followed by 'In association with Physitech Consultancy Services Pvt Ltd organizes 2-day hands on training workshop'. The workshop title '" Embedded Systems and IoT Applications"' is in a yellow box. Below this, it says 'for Students of B.Sc IIE and IIIE (M.E.CS)'. The Physitech Electronics logo is on the left, and a diagram of 'Embedded Systems' with various applications (Manufacturing, Medical, Automotive, etc.) is in the center. The PCS logo is on the right. At the bottom, a red banner contains the date, time, and venue: 'Date : 15 & 16, December | Time : 09.00 A.M to 4.00 P.M | Venue : Electronics Lab'.

The Department of Electronics organized a 2-day hands on training workshop on “Embedded Systems and IoT Applications” under DBT STAR COLLEGE, Strengthening Component, for the B.Sc students of II/III year (M.E.CS). Around 60 students and 2 faculty members participated. The resource person for the event was Mr. Shareef, from Physitech Consultancy Services Pvt Ltd.

Objectives:

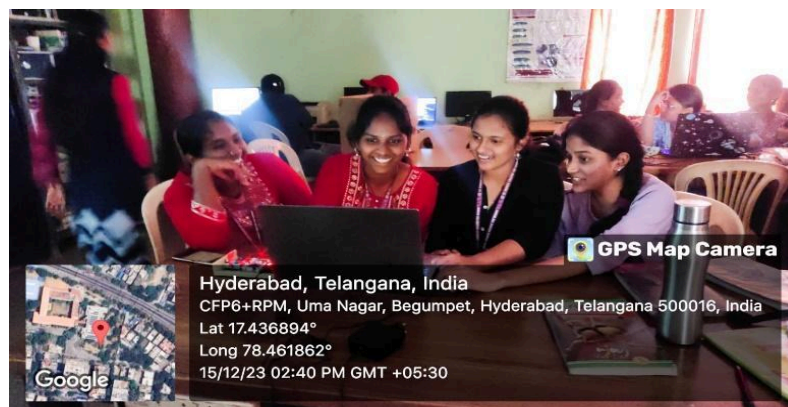
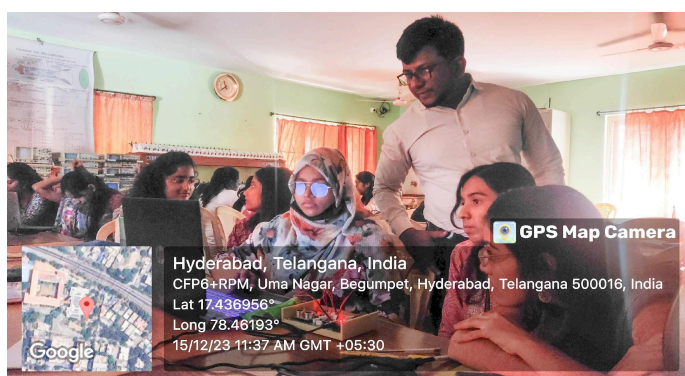
- The primary objective of the session was to enhance the students' knowledge in electronic skills and embedded systems.
- Apply the knowledge in the IoT field which will help the students to pursue a career as embedded engineer or an IoT professional with this hands-on training 2 day workshop.



Outcomes: The students learned about :

- Basic programming in ESP 32 Micro controller including GPIO manipulation.
- Soil moisture Sensor ,LDR Sensor, OLED DISPLAY, IP address Sensor, Ultrasonic Sensor using Arduino with this system.
- Comprehensive understanding of real-life applications and conducted an in-depth study of core components like micro controllers.

Pictures





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