

IMMACULATE COLLEGE FOR WOMEN, CUDDALORE

Academic Year:2022-2023

Report on short-Term course - IIOT WORKSHOP

Immaculate College for Women, Cuddalore organized the “Short Term Course on IIOT” held from 03.02.2022 to 31.03.2022. **MR.S.BALABASKER, Founder, Ediylabs technology Solutions**, has conducted the program to the participants comprising, Our second-year students from Department of Computer science, Computer Application and Physics. The entire course was conducted at College Auditorium.

“If you think that the internet has changed your life, think again. The Internet of Things is about to change it all over again!” — Brendan O’Brien, keeping those words in minds this workshop provided the updated IOT with all one requires to get aware of the **“Industrial Internet of Things – IIOT”**. The primary objective of this workshop focused on developing skills in IIOT technologies using Arduino-UNO programming.

DAY – 1(03.02.2023):

The First day of the workshop started with a prayer song. The organizer Mr. S. Bala Baskar, commenced the workshop with an introduction note on IIOT. Then the students were divided into 20 groups and were asked to mark out some ideas to implement IIOT on problems that require solutions.

II BCA	08
II CS	10
II PHY	02
Total	20 Groups

DAY – 2 (10.02.2023):

Day – 2 involved students in a small preview with a simulator software named “WOKWI” on mobile phone just as a trial before directly working using hardware components.

DAY – 3 (17.02.2023):

The participants were provided with a hardware kit consisting of Arduino board, other electrical and electronic component with which they were given a task to light a LED.

DAY – 4 (24.02.2023):

Fourth day of the workshop was utilized to download the Arduino software, with which the programs are written.

DAY – 5 & 6 (17.03.2023):

The participants were asked to make use of the buzzer given in the hardware kit and write coding with the help of Arduino software. The students were asked to write a code such that they make use of soil moisturizer, touch sensor and joystick given in the hardware kit.

DAY – 7 & 8 (31.03.2023):

The organizer gave a short recap on the tasks learned from the previous sessions and conducted quiz. Students eagerly participated as a team, in the competition. And all the participants were

asked to download the 'Blynk' app in their mobile phone. This app aids in controlling the hardware components without involving any coding.

After the final workshop the students were asked to prepare a team wise project based on their knowledge and understanding of the program gained from the course.

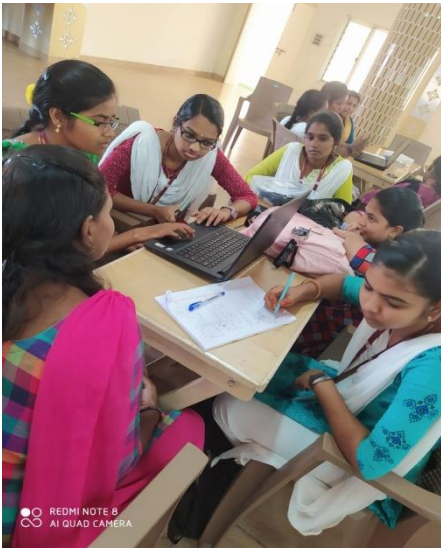
PROJECT IDEAS

1. Smart Railway Station Accident Prevention
2. Heart Pulse Sensor
3. Distance Measure
4. Automatic Water Irrigation
5. Gas Leakage Detector
6. Automatic Plant Watering System Using Soil Sensor
7. Control Electric Bulb From Mobile
8. Smart Dustbin
9. Fire Sensor with LED and Buzzer
10. Automatic Hand Sanitizer Dispenser using Arduino
11. Smart RFID Door Lock
12. Traffic Light Control
13. Water Level Monitoring System
14. Preventing Clothes from Rain using Rain Drop Sensor
15. Automatic Plant Watering System
16. Traffic Light Control

List of participants from various Departments

TOTAL NUMBER OF PARTICIPANTS: 151

DEPARTMENT	NO. OF STUDENTS
II - BCA	72
II - CS	53
II - PHYSICS	26
TOTAL	151



IIOT PROJECT SPECTACLE - 2023 & VALEDICTORY

On 14th June the Valedictory function took place at Dupuis auditorium at 9:30 AM. The Chief Guest Dr. J. Balaji, Asst.Prof., Dept of Physics, University College Of Engineering, Panruti explored the project exhibited by the students of BCA, Computer science and Physics department and gave marks based on the ideas and presentation. After the project exhibition, the program started with the prayer song followed by the Welcome address done by Rajamani, Asst.Prof., Dept of Physics, then the Chief Guest and the trainer Mr. S. Balabaskar shared their thoughts about the students project and announced the first three price winners. Later the program ended with Vote of thanks by Ms. Mary Ramya Poovizhi, Head, Dept of Computer Science followed by College Anthem.

Prize Winners

I St Prize	Smart Railway Station Accident Prevention	III Bca	T.Arthi R.Pavithra M.Sujatha R.Rishiga S.Nandhini	Received Certificates & Cash Award Of Rs.2000/-
II Nd Prize	Matrix Printer	III Computer Science	Niranjana Vigneshwari Logesh Priya Sugapriya Jennisha	Received Certificates & Cash Award Of Rs.1500/-
III Rd Prize	Preventing Clothes From Rain Using Rain Drop Sensor	III Bca	S.Monalisa S.Kiruthisha M.Shalini	Received Certificates & Cash Award Of Rs.1000/-
Special Appreciation	Gas Detector	III Physics	Abitha	Received Certificates & Cash Award Of Rs.500/-


Immaculate College For Women
 Chinnakanganankuppam, Cuddalore - 607 006

Department of Computer Science & Physics
Cordially Invites You For The
IoT SPECTACLE - 2023

CHIEF GUEST
 Dr. J. Balaji,
 Assistant Professor,
 Department Of Physics,
 University College Of Engineering , Panruti

TRAINER
 Mr.S.Balabasker
 Founder
 Edylabs Technology Solution
 Manjakuppam,Cuddalore-607001

Chief Patron
 Rev.Sr.Sagayam,
 Secretary

Patron
 Dr.M.Susiladevi,
 Principal

Convenor
 Dr.S.Chitra,
 HR

Co-Convenor
 Ms.J.Mary Ramya Poovizhi,
 Head,Department Of CS

Co-Convenor
 Ms.F.Priscilla Priya,
 Head,Department of Physics

Agenda
 Opening Ceremony
 Prayer Song
 Welcome Address
 Honouring The Chief Guest
 Trainer Address
 Chief Guest Address
 Prize Distribution
 Vote Of Thanks
 College Anthem