



# St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

NEWSLETTER

## DARPAN

*(THE IMAGE OF ACHIEVEMENTS)*

VOLUME: VII, EDITION I, 10<sup>th</sup> JANUARY 2022

### VISION OF THE DEPARTMENT

DEPARTMENT  
ECE

To build a strong teaching and research environment to cater to the manpower needs in Industrial and Academic domains of the rapidly growing Electronics and Communication Engineering.

### MISSION OF THE DEPARTMENT

#### Editors:

1 Sudipta Dutta  
Assistant Professor,

2. Prashnatita Pal  
Assistant Professor,

3. Paramita Ghosh,  
3rd Yr ECE

4. Tiasha Santara,  
3rd Yr ECE

- ❖ To produce certified industry-ready professional in Electronics and Communication Engineering, through innovative educational programs incorporating laboratory practices and project based teaching-learning processes, in a modern environment.
- ❖ To create knowledge base of advanced technologies through research in the area of Electronics and Communication, for competitive and sustainable development of the country.
- ❖ To groom the department as a learning centre to inculcate advancement of technology in Electronics and Communication Engineering with social values and environmental awareness.

### RECENT TECHNOLOGY TREND

## Getting Started with Raspberry Pi

The Raspberry Pi is a series of small single board computers developed in the United Kingdom by the Raspberry Pi foundation to promote teaching of basic computer science in schools and in developing countries. Raspberry Pi foundation is a joint venture of BROADCOM and University of Cambridge. The 'Pi' in Raspberry Pi stands for Python. The Raspberry Pi Foundation specifically selected Python as the main language because of its power, versatility, and ease of use. Python comes preinstalled on Raspbian, so it is ready to start from the get-go.

Launched in 2011, the Raspberry Pi found a role both as a very low cost Linux based mini-computer and as a platform for embedded computing. It has proven popular with educators and hobbyists alike. The world of Raspberry pi moves quickly. With a large active community, new interface boards and software libraries are being developed all the time. The Raspberry Pi 4 as with an option of 4 GB of performance makes the Raspberry Pi more powerful enough to use as a replacement for a Desktop computer. The availability of open source software for internet browsing, email, office suites, and photo editing is set to make the Raspberry Pi even more popular.

**Dr. Prasun Chowdhury**  
HOD, Department of Electronics and Communication Engineering

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Further  
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## DEPARTMENTAL MILESTONE

### STUDENT ACHIEVEMENT MOOCS:

- No. of students successfully completed MOOCS: 17  
Among them fifteen students have Awarded with Elite Certificate  
Two students awarded with Elite +Silver Certificate .

### HIGHER STUDIES:

#### PASSOUT BATCH (2020-2021)

- ✓ **Srijita Sanyal** persuing her M.S in Communications and Multimedia Engineering, from FAU - Erlangen-Nuremberg, Germany.
- ✓ **Pritam Mukherjee** perusing M.Tech in Communication System Engineering , from Visweswara National Institute of Technology Nagpur.
- ✓ **Ritwik De** perusing M.Tech in Embedded Systems Engineering, from NIT JAMSHEDPUR

### PUBLICATION DETAILS:

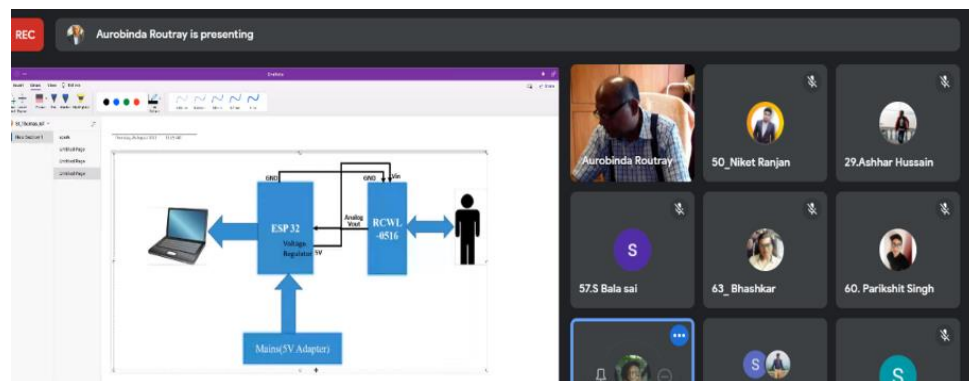
**Siddhartha Maity, Piuli Bagchi, Sayantan Patra, Sayan Maity, Sumani Mukherjee,** Iot Based Home Appliance Control System Using Proteus Simulation Software and Blynk Server, IJRASET, Volume 9 Issue VII July 2021 [Impact factor 7.429]

### Webinar Attended :

- ❖ **A Essay Competition was conducted by** Institution's Innovation Council (IIC) and Entrepreneurship Development Cell (EDC) , 24th August 2021for **Celebration of World Entrepreneurs' Day** on 24th August 2021, Ten students of ECE participated in this competition.
- ❖ Forty one students of ECE attended Webinar on "Start-up and Eco-system" as part of Celebration of "National Education Day"**organized by** Institution's Innovation Council (IIC) and Entrepreneurship Development Cell (EDC) ,Speaker : Mr. Ayan Deb ,Project Manager, P360,27th November, 2021.
- ❖ Sixty Seven Students of ECE attended online Webinar on "Engineering Education" **organized by** Institution's Innovation Council (IIC) and Entrepreneurship Development Cell (EDC) , Speaker :Mrs. Bidisha Mukherjee Joint Director of Technical Education, WB 4th December, 2021

### EVENT ORGANIZED:

**3 days Online workshop on "Embedded System &IoT" organized by Department of ECE, ST. Thomas' College of Engineering & Technology, on August 26<sup>th</sup> to 28<sup>th</sup> ,2021**  
Convener: **Ms. Tanusree Dutta** . Eminent speaker **Prof. (Dr.) Aurobinda Routray, Professor, Dept. Of Electrical Engg IIT KGP and his Research Scholars.**



**Parnab Ghosh, Deepanjana Saha and Manjoy Dutta** of 3<sup>rd</sup> year ECE Secured 1<sup>st</sup>,2<sup>nd</sup> and 3<sup>rd</sup> Position respectively.



## FACULTY ACHIEVEMENT

### PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMME (FDP):

- **All the Faculty members of ECE department** successfully completed Three-days online FDP on Effective Teaching and Learning organised by Research & Development Cell (R&D Cell) of St. Thomas' College of Engineering & Technology Kolkata ,from 6<sup>th</sup> to 8<sup>th</sup> September, 2021
- **Dr. Dipankar Kundu** successfully completed five days Online FDP on "Recent Trends in Control System Engineering" organised AICTE Training And Learning (ATAL) Academy, at Chhatrapati Shivaji Institute of Technology, Durg, Chhattisgarh. from 23<sup>rd</sup> to 27<sup>th</sup> August ,2021.
- **Ms. Tanusree Dutta and Ms. Sudipta Dutta** successfully completed FDP on How to Write Thesis and Research paper organized by NITTTR,Kolkata,2nd-6th August,2021.
- **Sumani Mukherjee** successfully completed 5 days online FDP on "Recent Advances In Nanoscience And Nanotechnology" organized by AICTE Training And Learning (ATAL) Academy
- **Dr. Juin Acharjee** attended FDP on " Devices for Modern Wireless Communication System" organized by AICTE Training and Learning Academy , September 20<sup>th</sup> to 24<sup>th</sup> , 2021.

### PUBLICATION DETAILS:

#### • PUBLISHED JOURNAL & CONFERENCE PAPERS

- **J. Acharjee**, "Design and Analysis of Shorting Pin Loaded Triple Band Microstrip Patch Antenna with Enhanced Gain for Wireless Applications, "2021 Photonics & Electromagnetics Research Symposium (PIERS)", [doi: 10.1109/PIERS53385.2021.9694717].
- M. Goswami, **A. Chattopadhyay**, C. Bose, "Performance Analysis of Dual Material Junction Accumulation Mode tri gate Junctionless SOI FET: Modeling and Simulation", *Silicon Impact Factor: 2.67*, <https://doi.org/10.1007/s12633-021-01483-9>.
- **Ankush Chattopadhyay**, Chandan K. Sarkar, Chayanika Bose, "Compact analytical modeling of underlap gate stack graded channel junction accumulation mode junctionless FET in subthreshold regime", *Superlattices and Microstructures, Impact Factor: 2.658*, doi: <https://doi.org/10.1016/j.spmi.2021.107110>.
- Siddhartha Maity, Piuli Bagchi, Sayantan Patra, Sayan Maity, **Sumani Mukherjee**, "Iot Based Home Appliance Control System Using Proteus Simulation Software and Blynk Server", *IJRASET, Volume 9 Issue VII July 2021 [Impact factor 7.429]*

#### • PUBLISHED BOOK CHAPTER

- **Dr. Prasun Chowdhury and Tanusree Dutta** ,Design and Analysis of an Efficient Queue Scheduling Scheme for Heterogeneous Traffics in BWA Networks- *Published as chapter in Computational Intelligence and Machine Learning (springer.com.)*