



St. Thomas' College of Engineering and Technology

4, Diamond Harbour Road, Kidderpore, Kolkata- 700023

NEWSLETTER

DARPAN

(THE IMAGE OF ACHIEVEMENTS)

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VISION OF THE DEPARTMENT

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.

DEPARTMENT
ECE

MISSION OF THE DEPARTMENT

- ❖ 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.

Editors:

1 Sudipta Dutta
Assistant Professor,

2. Prashnatita Pal
Assistant Professor,

3. Pritam Mukherjee,
4th Year ECE

RECENT TECHNOLOGY TREND

So what should you choose – Arduino or Raspberry Pi?

Arduino is a simple microcontroller while Raspberry Pi is actually a small computer. Arduino has only 2 kilobytes of RAM. Raspberry Pi has a RAM size of 1 GB. So, Arduino can be used for a simple solution for frequently repeated activities like controlling the watering of the garden, switching on and off the external lighting at a specific time, opening/closing the gate, etc.

On the other hand, as Raspberry can run many tasks at the same time, it is a computer and can manage simultaneously works e.g. Home weather stations as it needs to collect information from several sensors (temperature, wind strength, humidity). Raspberry Pi can also be a good choice for anyone interested in IoT, i.e. the Internet of Things at home.

Reference:

[1]M. Terauds, T. Solovjova “An attractive way to teach programming basics based on a graphical display module” IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Oct, 2019.

[2]N. S. Yamanoor; S.Yamanoor, “High quality, low cost education with the Raspberry Pi” IEEE Global Humanitarian Technology Conference (GHTC), 2017

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

**For
Further
Information
Contact:**
sudipta_45@yaho
o.com



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DEPARTMENTAL MILESTONE

STUDENT ACHIEVEMENT

| <u>NAMES</u> | <u>YEAR</u> | <u>ACHIEVEMENT</u> |
|-----------------------------|-----------------------------|--|
| ASHHAR HUSSAIN | 2 nd Year ECE | Secured Second Runner-up position in the Blogging competition organized by RENERGIZE Tech-Fest. |
| DWARAKANATH DEY | 3 rd Year ECE | 1. Secured 1st Position in Webinar on "Introduction to Embedded System" held on 24th & 25th July, 2020. 2. Received Certificate of Merit in the "National Quiz on the Insolvency and Bankruptcy Code" conducted by the Insolvency and Bankruptcy Board of India between 1st July, 2020 to 31st July, 2020. |
| TRISHNA JANA , PAYEL SAR | 3 rd Year ECE | Both of them Achieved 3rd position in the webinar on "Introduction to Embedded System" |
| RAHUL CHAKRABORTY | 4 th Year ECE | Achieved 1st position in online photography context organized by "Kolkatar Anache Kanache". |

EVENTS ORGANIZED:

- ❖ **3Days Webinar** on "Introduction to Hardware & Software used in Electronics & Communication Engineering" organized during July 7 – 9, 2020 (in online mode) convener: **Dr. Prasun Chowdhury** and speakers were **Dr. Dipankar Kundu, Tanusree Dutta and Ankush Chattopadhyay**.
- ❖ **2Days Webinar** on "Introduction to Embedded System" organized during July 24 – 25, 2020 (in online mode). Convener: **Dr. R. N. Datta** and eminent speakers were: **Prof. (Dr.) Aurobinda Routray, Professor, Dept. of Electrical Engg IIT KGP and Dr. Debdoot Sheet, Asst. Professor, Dept. of Electrical Engg., IIT KGP.**
- ❖ **5 Days FDP on" Internet of Things (IoT)"** organized during Dec, 1 -5, 2020(**In online mode**) through lectures given by five eminent professors **Prof. Sudip Misra (IIT Kharagpur), Prof. Susmita Sur-Kolay (ISI Kolkata), Prof. Aurobinda Routray (IIT Kharagpur), Prof. Nabanita Das (ISI Kolkata), Dr. Sasthi Charan Ghosh (ISI Kolkata).** Convener of the FDP was **Dr. Prasun Chowdhury** .

WEBINAR ATTENDED

- **Dr. Prasun Chowdhury** attended webinar on "Risk Proofing The Future For Education" organized by AICTE-IRM on 3rd July at 3PM.
- **Dr. Dipankar Kundu** attended Virtual International Conference, 'Engineering Education 4.0: Lasers, Optics & Photonics' by Ecole Centrale School of Engineering, Mahindra University on 22.07.2020.
- **Sudipta Dutta** and **Sumani Mukherjee** attended Webinar on Advanced Deep Learning Approach for Natural Language Processing (18 July 2020) by Bui Thanh Hung, Engineering Technology Faculty, TDMU, Vietnam, organized by Department of Computer Science and Engineering, Sagar Institute of Research & Technology, Bhopal.



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FACULTY DEVELOPMENT PROGRAMME

- **Tanusree Dutta** attend workshop on **Digital Teaching Technique** organized by ICT Academy from 29 Jun 2020 to 04 Jul 2020.
- **Sumani Mukherjee** successfully completed successfully Short Term Training Programme through ICT Mode on "Big Data Analytics" organized by NITTR institute from 06/07/2020 to 10/07/2020.
- **Sudipta Dutta** successfully completed two-weeks Online Faculty Development Programme on "Embedded UVM open source Emulation & Functional Verification" jointly organized by Electronics and ICT Academies held on 13-24 July 2020.
- **Dr. Dipankar Kundu** successfully completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" by AICTE and National Power Training Institute (NPTI), Neyveli, TN from 24th-28th August, 2020.
- **Prashnatita Pal**
 - a. **Attended the online workshop on**
 - I. Indo-Canada SPARC - workshop on "RF Energy Harvesting Systems, REHS-2020" organized by National Institute of Technology Silchar in collaboration with Delhi Technology University, India & Queen's University, Canada from 17-07-2020 to 21-07-2020
 - II. TEQIP III sponsored online workshop on "RF & Millimeter-Wave Technologies (RMWT-2020)" organized by National Institute of Technology Silchar from 08-29-08-2020 to 2-09-2020
 - III. TEQIP III sponsored online workshop on "Recent Trends in Innovation CMOS-MEMS Technologies and Application: Hands on" organized by National Institute of Technology Silchar from 11-9-2020 to 15-09-2020.
 - b. **Successfully completed FDP on**
 - I. "Wireless Communication Technologies for IoT" jointly organized by at Indian Institute of Technology Guwahati and Electronics & ICT Academy from 27th July 2020 to 7th August 2020.
 - II. AICTE Training and Learning (ATAL) Academy online FDP on "Computer Science & Biology", at National Institute of Technology Silchar from 2020-10-12 to 20-10-16.

PUBLICATION DETAILS

- **A. Chattopadhyay, A. Pathak and P. Mukherjee**, "Impact of Dopant variations on Junctionless Cylindrical Nanowire FETs," *2020 IEEE VLSI DEVICE CIRCUIT AND SYSTEM (VLSI DCS)*, Kolkata, India, 2020.
- **T. Dutta, P. Chowdhury, S. Mondal, R. Ghosh**, "Design and Analysis of an Efficient Queue Scheduling Scheme for Heterogeneous Traffics in BWA Networks". *Computational Intelligence and Machine Learning. Advances in Intelligent Systems and Computing*, vol 1276. Springer, Singapore. https://doi.org/10.1007/978-981-15-8610-1_14 First Online: 25 November 2020.
- **S. Ghosh, P Chowdhury** "Google Controlled Car" *proceedings of IEEE sponsored International Conference on Emerging Trends in Wireless Communication Technologies & Information Security (EWCIS 2020) held during 8th - 9th October, 2020.*
- **Dutta. I and Ganguly .K and Datta .S and Mondal. S and Das. S and Pal. S and Kumar. U and Pal .P**, Review on Application of Bio- MEMS. *International Web Conference on Recent advances in Nanoscience & Nanotechnology for High-end Application (IWCRANHA-2020) in association with The Society for Technology Advanced Materials of India (STAMI).*
- **Pal, A.; Panja. A.; Samadder. A.; Banerjee. S.; Acharjee. J.; Mandal. K.**, "Extended Microstrip Line-Fed Circularly Polarized Dielectric Resonator Antenna for WiMAX and 5G Applications", *IEEE International Conference on Emerging Trends in Wireless Communication Technologies & Information Security [EWCIS 2020], 8th-9th October, 2020 (Best Paper Awarded).*