

IEEE EDS Kolkata Chapter Consolidated Activity Report 2019

List of distinguished lecture (DL) Talk:

Date	DL name	Topic	No. of Attendees	Place
August 17, 2019	Prof. C K Sarkar	Advanced MOSFETs	80	Dream Inst. of Technology, Kolkata
September 11, 2019	Prof. Subir K Sarkar	OFET based Devices and their applications	97	Kalyani Govt. Engg. College
12.01.2019	Dr. Durga Misra	Next Generation Nanoelectronics Devices: Issues and Challenges		Netaji Subhash Engineering College
02.09.2019	Dr. M. K. Radhakrishnan	Circa 70 – Si Device Progression and Challenges towards Nano era		Netaji Subhash Engineering College

Mini-Colloquium (MQ) Program held:

Date	Speakers	Topic	No. of attendees	Place
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Conferences/seminars/paper contest sponsored by the chapter:

Date	Name of the Conference	Place	No. of Attendees
23-24, 2019	3rd International conference “2019 Devices for Integrated Circuit (DevIC)” organized by IEEE KGEC Student Branch Chapter in association with Department of ECE, KGEC, technically co-sponsored by IEEE EDS Kolkata Chapter	Kalyani Government Engineering College	200
Dec. 27, 2019	INTERNATIONAL SEMINAR CUM RESEARCH COLLOQUIUM ON MEMS based Sensors and Smart Nanostructured Devices Sponsored by	Jadavpur University	200

	RUSA 2.0, IC Design & Fabrication Center, Dept. of ETCE and technically co- sponsored by IEEE EDS Kolkata Chapter		
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List of workshops conducted:

1. The ED MSIT Student Branch Chapter in association with IEEE COMSOC MSIT Student Branch Chapter, IEEE PES MSIT SBC, IIEDC MSIT and MSIT Student Branch organized the a Technical Symposium: "PARIDHI 2019" on 30th March, 2019. The program was inaugurated by Chief Guest Prof. Chandan kr. Sarkar, Chairman, IEEE SSCS Kolkata Chapter. Prof. (Dr.) Sukumar Roy Chowdhury, Director, MSIT has delivered a welcome note on this occasion. Vote of thanks was delivered by Dr. Manash Chanda. Dr. Amlan Chakroborty, Dean, AKCSIT, University of Calcutta delivered a technical talk on Embedded Designs and issues. The talk was for for 60 minutes. Almost 30 IEEE student members and near about 45 non-IEEE student members along with the faculties attended the talk. There was a question answer session after the talks. All the students immensely benefitted by the talk.
2. Innovation challenge and Prototype contest has been also organized by the IEEE ED MSIT Student Branch Chapter in association with the IEEE MSIT SB and IIEDC, MSIT on 1st April, 2019. Almost 20 teams having four members each have participated in this competition. Different innovative concepts have been modeled and showcased in this competition. Almost 26 IEEE Student Members and 54 non-IEEE Student members have participated in this event. Mainly the projects were based on VLSI Circuits and Device; Communication and Networking; RF and Microwave Engineering, Antenna Design; Embedded System, FPGA and Image Processing. The students groups were highly motivated by the event.
3. A workshop has been organized for the 1st year students on 10th June, 2019 to spread the awareness of IEEE membership and also to involve them in the research of VLSI Device and circuit design and modelling. Dr. Manash Chanda, Chapter Advisor, IEEE ED MSIT SBC and Dr. Swapnadip De, Counselor, Student Branch were the key person of this event. Total 12 students from the first year have taken the membership of IEEE EDS after the event. Other students were also immensely benefitted and motivated by the talk of the Advisor and counsellor.
4. A student paper contest has been organized by the IEEE EDS MSIT SBC in association with the Dept. of ECE, MSIT on 16th June, 2019. Almost 31 papers have been presented in this event. Total 76 students participated out of which total 42 were the IEEE members. Total 26 IEEE EDS student members attended the paper contest. The contest has been organized to motivate the students towards the research of the VLSI device and circuits. Also few papers from the communication, antenna propagations and IoT-Embedded system have been presented here.
5. The ED MSIT Student Branch Chapter and MSIT Student Branch, in association with the Department of ECE, MSIT organized the one week hands on training on PCB designs

and IoT based embedded device from 7th January, 2019 to 14th January 2019. Almost thirty students of the pre final year attended the training. Dr. Sudip Dogra and Dr. Manash Chanda coordinated the session. Out of the thirty students, almost twelve students are IEEE student members. Students learned the PCB designs and embedded language for programming IoT applications.

6. The ED MSIT Student Branch Chapter and MSIT Student Branch, in association with the Department of ECE, MSIT organized the oneweek hands on training on IoT based embedded device and Arduino from 16th August, 2019 to 23rd August. 2019. “Micropro” from Kolkata has delivered the quality training on the embedded systems. Almost fifty threestudents of the pre final year attended the training. Dr. Manash Chanda and Dr. Swapnadip De coordinated the session. Out of the fifty threestudents, almost seventeen students are IEEE student members. Students learned the embedded language for programming IoT applications. Students were immensely benefitted by the training.
7. The ED MSIT Student Branch Chapter and MSIT Student Branch, in association with the Department of ECE, MSIT organized the One Day Industry Academia meet by Mr. Chandan Das, TCS on 22nd August, 2019 at the college premises. The talk started from 3.00 pm and it was of approximately 60 minutes duration. The topic of the talk was "IoT Devices and Embedded Applications". Almost fifty students attended the event. Out of the fifty students, almost twenty IEEE student members attended the talk.
8. The ED MSIT Student Branch Chapter and IEEE MSIT Student Branch, in association with the Department of ECE, MSIT organized the One Day IEEE EDS Industry Academia meet on 25th July, 2019 from 11 am to 12pm to motivate and enhance the technical knowledge of the final and pre-final year students of ECE Department. Mr. Priyanko Mitra, Manager, Mixed Signal Solution, Power Management Team, Sankalp Semiconductor delivered a technical talk on “An overview of analog VLSI industry” in this occasion and also interacted with the students for their betterments. Almost seventy students attended the session. Out of the seventy students, twenty eight IEEE EDS Student members and five IEEE EDS Members attended the talk.

List of seminars/ One-day Lecture Programs held:

Date	Topic	Speaker	Place	Attendees
August 26, 2019	Semiconductor nano-structures	Dr. Chayanika Bose, Professor,	Kalyani Govt. engg. College	100

		Jadavpur University		
20-Feb-2019	Industry-Academia Innovative practice Lecture-talk program	Amit Kumar Bhattacharya Ex-CGM (Chief General Manager) of BSNL	Kalyani Govt. engg. College	100
28th March, 2019	One-day Lecture talk on "SCEs in Nano-MOSFETs" jointly organized by IEEE EDS Kalyani Government Engineering College Student Branch Chapter and Department of ECE, KGEC	Dr. Manash Chanda, Asst. Professor of MSIT, Kolkata	Kalyani Govt. engg. College	20
10th April, 2019	One-day Lecture talk on "Nano-dimensional Biosensors" jointly organized by IEEE EDS Kalyani Government Engineering College Student Branch Chapter and Department of ECE, KGEC	Dr. Avik Chakraborty, Asst. Professor of JGEC, Jalpaiguri	Kalyani Govt. engg. College	25
24th April, 2019	One-day Lecture talk on "Quantum Mechanical Effects in Devices" jointly organized by IEEE EDS Kalyani Government Engineering College Student Branch Chapter and Department of ECE, KGEC	Dr. Debashish De, Professor of CSE, MAKAUT	Kalyani Govt. engg. College	25

February 14, 2019	One day technical talk on "Staggered Hetero Junction TFET", organized by The ED MSIT Student Branch Chapter and MSIT Student Branch, in association with the Department of ECE, MSIT	Prof. (Dr.) Angsuman Sarkar, Associate Chairman, IEEE ED Kolkata Chapter	Professor, Department of Electronics and Communication Engineering, Kalyani Govt. Engg. College and	eighty students attended the event. Out of the eighty students, almost twenty-four IEEE student members attended the talk
March 14, 2019	One day technical talk on "IoT Devices and Low power Applications" organized by The ED MSIT Student Branch Chapter and MSIT Student Branch, in association with the Department of ECE, MSIT	Dr.Subhankar Majumdar, Assistant Professor, Department of Electronics and Communication Engineering, NIT Meghalaya	NIT Meghalaya	50
6 th September, 2019.	IEEE EDS technical Talk on "Quantum Nano structure", organized by the IEEE EDS MSIT SBC, in association with the Dept. of ECE.	Prof. Chayanika Bose, Professor, Dept. of Electronics and Communication Engineering Department, Jadavpur University	Jadavpur University	35

Chapter efforts directed to students and young professionals for IEEE EDS awareness:

Date	Organized by	Description
17th August, 2019	Organized by The Departments of Electronics & Communication Engg. of Dream Institute of	Dr. A. Sarkar Delivered an invited lecture talk on "Benefits of IEEE Membership" in "IEEE EDS Outreach Program"

	Technology, Thakurpukur, Kolkata	
1st August, 2019	For students of Dept. of ECE Organized by The Departments of Electronics & Communication Engg. of Barasat University, Barasat, Kolkata	Dr. A. Sarkar Delivered an invited lecture talk on "Introduction to Electronics Engineering"