

The Institution of Engineering and Technology

About IET

A network was born by the will power of some dreamers.

It was 1871. Long before two other institutions were born: the Institution of Civil Engineers was started in 1818 and the Institution of Mechanical Engineers was started in 1847.

Telegraph companies were developing rapidly. In 1870 around 2500 were working in telegraph companies. Cooke and Wheatstone, which helped to increase the popularity of electric telegraphy, introduced electric telegraphy into the railways. The workers of telegraph companies felt a need for a new type of association. As their job was closer to electrical field, this need was different from that which was available with associations of civil and mechanical engineers.

Strong willpower of employees of telegraph companies in UK was the reason of the birth of this never-ending journey in 1871.

The name given was The Society of Telegraph Engineers (STE). The first formal meeting was held on 17 May 1871 in 2 Westminster Chambers, Victoria Street, London. A source of inspiration was Major Frank Bolton who served the signaling section of the army for many years.

From the inception, its purpose was to serve people of two major sectors: professionals and learners. It involved both electrical and telegraph engineers.

A thought was raised to change the name of the society to include electrical engineers. A decision was taken in the general meeting held on 22nd December 1880. The society was renamed as The Society of Telegraph Engineers and of Electricians. On the coming days it was felt that the only term 'electrician' was not sufficient. Again the name was changed by a council meeting held on 10th November 1887. The new name was decided as the Institution of Electrical Engineers. Register of Joint Stock Companies issued a Certificate of Incorporation to the Institution of Electrical Engineers on 1st January 1889.

The Institution of Engineering and Technology was formed in 2006 by the joining of the IEE (Institution of Electrical Engineers) and the IIE (Institution of Incorporated Engineers). This overview summarizes the history of the IET from its foundation in 1871.

About IET India

We are the Indian arm of the IET, a global organization inspiring, informing and influencing the engineering community to engineer a better world. As a diverse home across engineering and technology, we share

knowledge that helps make better sense of the world to solve the challenges that matter. It's why we are uniquely placed to champion engineering.

About IET Kolkata Local Network

Activities of IEE touched Calcutta of undivided India in 1941. To run various activities Calcutta a committee was formed. First meeting of this overseas committee was held on 30.10.1941. Then up to 1945, this committee held total 19 meetings. Nineteenth meeting was held on 28 August 1945. During this time world was witnessing Second World War and India was not an exception. It is to be remembered that Calcutta was the capital of India before Delhi. Just after Second World War, first approved branch was formed in 1945.

The Historic Journey started in 1945 with the name Calcutta Overseas Branch of IEE. The branch started in India in 1945 in undivided India. Thus, the Calcutta branch covered the eastern part of India, which included the regions presently part of Bangladesh. In this region, at that time there were two big Universities: the University of Calcutta and Dhaka University. But, after the independence of India, the activities of the network spread to the state of West Bengal, its surrounding states, Jharkhand, Odisha, Bihar, and all other north-eastern states of India.

On Campus Student Chapter at MCKVIE

On campus student chapter at MCKV Institute of Engineering was stated his journey in Electrical Engineering and Electronics & Communication Engineering Department with 120 students members in 2011. Gradually, it spread over in the total Electrical and Electronics Engineering Department. All students of these two departments continue the IET membership during their four years of UG curriculum. Presently, this On Campus student chapter continues with its all activities around the year with 288 student members. IET Kolkata Local Network and MCKVIE on campus student chapter jointly organized various event like Seminar, Conference, Workshops, Symposium, Industry visit etc. in a regular interval. IET always provide platform for their members especially for the students' members to showcase their talent and improve their technical skills through various events like Present Around the World (PATW), Present in Ten, IET Young Engineers Awards etc. During pandemic situation IET Kolkata Local network, organized online events for the students regularly, like Lecture series, Technical Paper presentation competition, Conference etc.

Event Organized by IET Kolkata Local Network

2022-2023

Hands on Workshop in Electric Circuit Design

Electrical Engineering Department of MCKV Institute of Engineering organized a Hands-on Training on Electric Circuit Design from 8th -9th September 2022 in collaboration with IET Kolkata Local Network. More than 50 students from the 5th semester participated in the event. They designed an IPR sensor-based automatic light control circuit for domestic lighting.



Electronic Circuit Design” workshop

Workshop on “Electronic Circuit Design” has been executed successfully by the Electronics and Communication Engineering Department of MCKV Institute of Engineering during 26th August to 27th August 2022. Design and Implementation of Automatic LED Emergency Light was the target design objective. The students of ECE department actively participated in the workshop to design, assemble and test the electronic circuits. All the resource persons from the organizing committee actively guided the students to make the event successful. Thirty-nine students of ECE Department participated in the workshop and developed the Automatic LED Emergency Light.



2021-2022

IET Kolkata Local Network - Young Engineers Award

Young Engineers Award 2022 is a project prototype / idea-based competition among undergrad students to showcase their projects that have a tremendous social impact on our day-to-day lives. IET Kolkata Local Network organized the event on 29th May 2022 at Hotel Hindustan International, (HHI Kolkata).



Students' Technical Article Competition "PRAYAS-2022"

Certificates and prizes of merit were also awarded for the Articles with highest originality based on plagiarism check values and Editor's choice based on best-written and formatted articles. Certificates of participation (e-certificates) were awarded to all participants. Plagiarism check of submitted papers was done and a proceeding of the competition has been published in the form of a book with ISBN 978-93-5626-963-7.



Technotica 2022

Technotica 2022 is an Intra College Technical Competition organized by the Institute every year. The event will be organized in collaboration with Institution's Innovation Council (IIC), MCKVIE. Students from MCKV Institute of Engineering are eligible to participate in the competition in a group of maximum three (3) students per team. It will be organized in two phases: an initial screening round and a final project demonstration round. A group of external experts will judge the final demonstration of the projects. The project will be evaluated on the basis of innovation, originality, practicability, understanding, and presentation of their work and top five teams will be awarded.

2020-2021

Lecture Series: IET Kolkata Local Network organized lecture series during to 21st September 2020 through online platform.

Date: 17.08.2020

Topic: Power situation in Pandemic Situation and a future projection.

Speaker: Mr. Sankar Nath Mukhopadhyay

Head, Asia Institute of Power Management, the training and consulting unit of CESC limited. An Electrical Engineer of Jadavpur, a Certified Energy Auditor from the BEE, under the Ministry of Power. He has 36 years of experience in Power sector, worked in Operation, maintenance, planning of Generation and Distribution Sector. He has also expertise in Transformation of Business Processes, Training and Development of Power sector employees. Delivered lectures and conducted sessions all over India on Network Planning, Reliability, Power Quality, safety and Business Process Re-engineering. He is a Member of the Energy Committee CII, Member of Energy and Environment Committee, BCCI and Presently Hony Chairman IET (KLN)

Date: 24.08.2020

Topic: 'Biosensing at Point of Care'- a recent challenge

Speaker: Prof. (Dr.) Joyanta Kumar Roy

Prof. Dr. Joyanta Kumar Roy, PhD, has been working in Electronics and Automation Engineer for last 35 years as Company Director, Consulting Engineering, Developer, Researcher and Educationist. Presently, He is associated with Narula Institute of Technology of Maulana Abul Kalam Azad Technical University, India as Visiting Professor. He is Company Director with System Advance Technologies and Freelance Consultant with number of Industries to give design support towards Smart Technology in water sector. He is Senior Member of IEEE and past Chairman of IET Kolkata network. He is Fellow Member of IETE and IWWA, regular reviewer of IEEE and Springer Journals. He is working as associate editor of S2IS journal and published significant number of scientific and technical publication in the form of book, book chapters, design documents, peer-reviewed SCI-indexed research papers, etc. He is the founder Chairman of Eureka Sciencetech Research Foundation, a charitable public trust. His research interest includes the development of smart measurement and control system, multifunction sensors; IoT based m-health, and technology-assisted living, Smart home and city

Date: 31.08.2020

Topic: Demand Side Management: An Approach for Energy Efficient and Greener Power Supply

Speaker: Prof. (Dr.) Jitendra Nath Bera

Prof. (Dr.) Jitendra Nath Bera has obtained his post-B.Sc. B.Tech and M.Tech in 1993 and 1995 respectively from the Department of Applied Physics, University of Calcutta with specialization in Electrical Machines and

Power System. He has obtained his Ph.D. in the year 2005, from Jadavpur University, Kolkata in the field of multimedia wireless communication. He worked as Scientist-B in a project sponsored by ADA, GOI as the Institute of Radio Physics and Electronics, Calcutta University for a period of almost two years. Then he joined in Premier Irrigation Equipment Limited as AGM and worked for a period of almost 10 years.

Since 2005, he worked as Associate Professor till 2012 and is now working as a Professor in the Department of Applied Physics, University of Calcutta. His field of interest is in Wireless Communication; Electrical drives and condition monitoring of SMART grid and Micro grid, Electrical Machines, Embedded Systems etc. He has more than 80 national and international journal and conference papers. He has published one Book and guided five Ph.D. candidates. He is actively involved in consultation projects for solving industrial problems through Calcutta University Industry Institute Partnership Project (CUIIPP) Cell.

Date: 07.09.2020

Topic: Harmonics in Transformers

Speaker: Prof. Susanta Ray

Presently Susanta Ray is an Assistant Professor in the Electrical Engineering Department, Jadavpur University. Before joining in Jadavpur University in 2009 he has worked as a Scientist in Defence Research Development Laboratory, Hyderabad. Prof. Ray published a good number of research articles in conferences and journals. His field of interest includes development of embedded systems, Design of Electrical machine, Fault analysis of Electrical Machines, BLDC motor drives etc.

Date: 14.09.2020

Topic: Electric power quality

Speaker: Dr. Surajit Chattopadhyay

Surajit Chattopadhyay obtained B. Sc. Degree in Physics Honours from Ramakrishna Mission Vidyamandir (Belurmath), University of Calcutta in 1998, and then B. Tech., M. Tech., in Electrical Engineering and Ph. D (Technology) degrees from the Department of Applied Physics of University of Calcutta in 2001, 2003 and 2010 respectively. He has obtained CEng from Engineering Council, UK in 2013. He has authored/coauthored around 127 papers published in International and National journals and conferences and three books. Presently, he is Associate Professor in the Department of Electrical Engineering in Ghani Khan Choudhury Institute of Engineering and Technology (under Ministry of HRD, Govt. of India). He is ex-Hon. Secretary of the Institution of Engineering and Technology (UK), Kolkata Network since 2013 and IET (UK) CCSA member. His field of interest includes electric power quality, fault diagnosis, power system protection, signal analysis, robotics application and UAV.

Date: 21.09.2020

Topic: Paradigm shift in the field of Illumination Engineering: An EEG based new approach towards "Lumen Seen...."

Speaker: Prof. Suddhasatwa Chakraborty

Assistant Professor- Electrical Engineering Department, Jadavpur University

In-Charge, Illumination Engineering Section, Illumination Engineering Laboratory

Electrical Engineering Department, Jadavpur University ,Kolkata-700032,

Official Member- Division -4 : International Commission On Illumination (Cie) On Bhalf Of India,

Convener Of The Panel (P/4) Of Lamps And Related Equipment Committee, Bureau Of Indian Standard (Bis)
For Revising Is 1944: Code Of Practice For Lighting Of Public Thoroughfare.

Member of The Electro-Technical Committee, Etd-23, Bureau Of Indian Standard (Bis),

Member Of The Electro-Technical Committee, Etd-49, Bureau Of Indian Standard (Bis),

Executive Committee: The IET(UK), Kolkata Local Network,

Director-Technical, Indian Society Of Lighting Engineers (Isle), Calcutta State Centre

Date: 28.09.2020

Topic: Cyber Resilient Image Transmission Technique

Speaker: Prof. (Dr.) Kaushik Das Sharma

Kaushik DASSHARMA received the B.Tech. and M.Tech. degrees in Electrical Engineering from Department of Applied Physics, University of Calcutta, India, in 2001, 2004 respectively and Ph.D. (Engg.) degree from Jadavpur University, India, in 2012. He is a recipient of the Kanodia Research Scholarship in 2002 and University Gold Medal in 2004 from University of Calcutta. He is currently serving as a Professor in Electrical Engineering Section of Department of Applied Physics, University of Calcutta, India. In 2016 he was invited to visit University of Manchester, UK and also invited to deliver a special lecture at the University of Southampton, UK. He was the recipient of prestigious Teacher-Researcher Fellowship from University of Paris-EstCretail, France in 2019. Dr. Das Sharma's key research interests include fuzzy control, stochastic optimization, signal processing, mobile robot navigation and computational approaches in disease detection.

Dr. Das Sharma has authored/coauthored about 60 technical articles, including 30 international journal papers. This includes papers in IEEE Transactions, Elsevier, Springer etc. He has also authored a book on "Intelligent Control" from Springer.