

EXPERT LECTURES

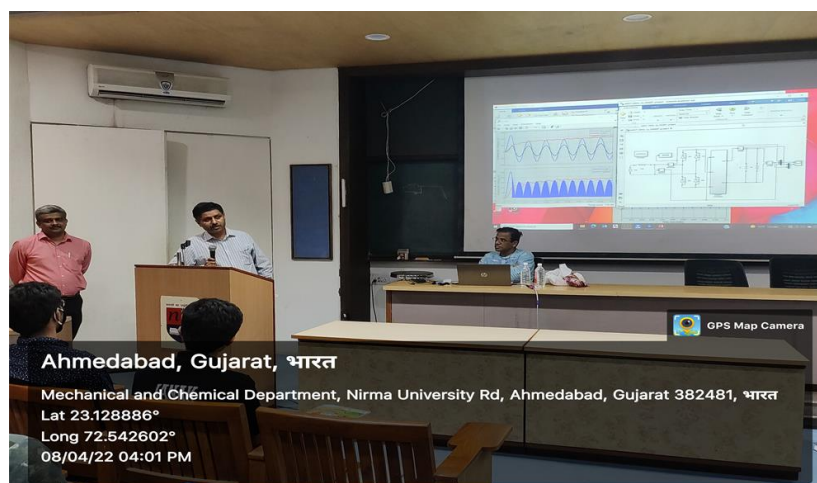
International

Dr. Neha Bhardwaj Upadhyay, Faculty of Science Economics, **University of Paris** delivered a session on the topic “Activating the Truly International Professional: Our Role in Achieving the Global Sustainable Development Goals” on January 6th, 2022

The Fulbright specialist **Dr. Kalyan K Sen**, CEO, Sen Transformers, **USA** was hosted by the Dept. of Electrical Engineering from Mar. 28 – Apr. 09, 2022. He spared his valuable time with the students and the faculty members during 9:00 am to 4:30 pm on each working day. The activities included a lecture series on the theme of "SMART Power Flow controllers" using FACTS devices for all students of UG EE sem VI and PG EE EPS students. With the help of Dr. Kalyan Sen, students and faculty members explored a well-accepted free license software - ATP. The discussions on the FACTS related course design and faculty interaction to understand a way forward in the domain of FACTS devices were part of activities too.

The most important outcomes of the successful project are:

- Students learnt about the trending FACTS devices employed in the modern power systems.
- Discussion of department faculty members with Fulbright Specialist - Two faculty members could understand the intricacies that was not realized during their research work, a faculty member explored a possible way forward to collaborate and learnt about IEEE section activities.
- Discussions on FACTS devices and their inclusion in curriculum. The faculty members could learn the pedagogy that would help students learn this course better.
- Faculty members and students explored a new free license software - Alternate Transient Program (ATP) widely used in the domain of power systems.
- Students learned the research methodology.
- A long association of the department with the Fulbright specialist - Dr. Kalyan K Sen.



Dr. Animesh Dutta , Professor and Director, Bio-Renewable Innovation Lab (BRIL) School of Engineering, University of Guelph, Guelph, Ontario, **CANADA** delivered an expert talk on “Upcycling of Biowastes for Energy and Materials: A Circular Economy Approach” on May 3, 2022.

Dr. Amit Kumar , Professor, Faculty of Engineering - Mechanical Engineering Dept Deputy Director – Future Energy Systems, NSERC Industrial Chair in Energy and Environmental Systems Engineering Cenovus Energy Endowed Chair, **CANADA** delivered an expert talk on “Hydrogen's Role in Global Energy Transition: An Economic Opportunity for Energy Exporting Jurisdiction” on May 3, 2022.

Dr. Sang Won Yoon, Professor, Systems Science and Industrial Engineering, SUNY Binghamton University, New York, **USA** visited CSE Department for collaborative teaching of Data Mining course on 21-22 March 2022.

Dr. Weizhi Meng, Associate Professor in the Department of Applied Mathematics and Computer Science, Technical University of Denmark (DTU), **Denmark** delivered an expert talk on the topic: “Securing Smart Devices with Behavioral User Authentication” on 26th May 2022.

Dr. Swaroop Ghosh a Ph.D form Purdue University, West Lafayette and an Assistant Professor at Penn State University, **USA** delivered a talk on the topic “Application of quantum computing in the fields of drug discovery” on 27th May 2022.

Dr. Ricardo Baeza-Yates, an expert in the field of information retrieval, web search and data mining, data science and algorithms and currently a Professor at Northeastern University, Silicon Valley campus, **USA** delivered a talk on the topic “Bias and the Web” on 8th June 2022

Dr Tian He, Operations Research Engineer (Intel Corporation) delivered a talk on “Pick-and-Place Machine Optimization in Semiconductor Industry” on December 17, 2021 as a part of Nirma University - **SUNY Binghamton University** Alumni Webinar Series.

Dr. Ramesh Teegavarapu, Professor at Florida Atlantic University, **USA** delivered an expert talk on ‘Water Resources and Irrigation’ during February 28 to March 11, 2022.

Dr. Sanjay Kumar Shukla, Associate Professor and Founding Research Group Leader (Geotechnical and Geoenvironmental Engineering), School of Engineering, Edith Cowan University, **Perth, Australia** delivered an expert talk on ‘Permeability of Soil: Laboratory Measurement of permeability’ during March 2-30, 2022

Dr. Neeraj Buch, Professor & Chairperson - Civil and Environmental Engineering Michigan State University, **United States of America** delivered an expert talk on ‘Overview of Pavement and its

types, Factors affecting performance of various types of pavements, Stresses in Flexible and Rigid Pavements, Design of Flexible and Rigid Pavements’ during March 7-25, 2022.

Prof. Chika Udeaja Professor at **London** South Bank University delivered an expert talk on ‘Construction Project Management’ during March 11-28, 2022.

National:

Mr. Girish Joshi, Head, Service & Training, Bosch Rexroth,, Ahmedabad delivered an expert talk on “Importance of fluid cleanliness in proportional hydraulics“ on May 5, 2022.

Mr. Archarya Arpan HR Manager, Milacron Ltd, Ahmedabad delivered an expert lecture on “Being an Engineer –Today’s Industry Perspective “ on May 5, 2022.

Mr. Dhruvesh Shah, Concrete Rehabilitation Specialist, Vector engineering, Baroda delivered an expert talk on ‘Cathodic Protection of RC structures with Case studies’ on May 05, 2022.

Dr. Anuradda Ganesh, Director, Chief Technical Advisor, Cummins India and Adjunct,Professor, IIT Bombay, India delivered an expert talk on “Renewable fuel substitute for Diesel Engines” on May 3, 2022.

Mr. Manan Patel, Project Management Professional-project procurement and HR Functional,Consultant-Digital Transformation, Gujarat, India delivered an expert talk on “Future Renewable Technology: Solar” on May 3, 2022.

Dr. Anuradda Ganesh, Director, Chief Technical Advisor, Cummins India and Adjunct,Professor, IIT Bombay, India delivered an expert talk on “ Renewable fuel substitute for Diesel Engines” on May 3, 2022.

Mr. Kaizad Engineer, Director, Ushta Infinity Construction Co. Pvt. Ltd. delivered an expert talk on ‘Remedial Engineering with Case Studies’ on April 30, 2022.

Dr Tamal Banerjee, Professor, Chemical Engineering Department IIT Guwahati delivered an expert talk on “COSMO SAC Model Basics and Applications” on April 29,2022.

Mr. Hitesh H Patel Engineering Leader-Product Life Cycle Engineering Compression Technologies and Services, Ingersoll Rand (India) Limited, Ahmedabad delivered an expert talk on “Rotary screw compressors- An industrial perspective” on April 29, 2022.

Mr Gaurang Patel, HVAC Consultant Ahmedabad, delivered an expert talk on “Selection of Air Conditioning System” on April 26, 2022.

Mr. Mahesh Rajput and **Mr Yash Gajjar** Blockchain Developer, Yudiz, Ahmedabad delivered an expert talk “Implementing Blockchain using python” on 24 April, 2022.

Mr. J.R.Anjaria, Chief Consultant, Anjaria Associates, Ahmedabad delivered an expert talk on “Building HVAC System and Installation” on April 22, 2022

Mr Jigar Pathak, Cloud Solution Architect, TechScalable, Ahmedabad delivered an expert talk on “Microsoft Azure Cloud and its applications in Data Science” on 22 April, 2022.

Mr. Kandarp Bhatt, National Manager, AIMIL Ltd delivered an expert talk on ‘Advances in Non-Destructive Methods for Evaluation of RC Structures’ on April 21, 2022.

Mr. Rishabh Kapil, Specification Consultant, Hilti India Private Limited delivered an expert talk on ‘Modern techniques and tools for repair of structures’ on April 07, 2022.

Mr Dhaval Ladva (Alumni), Sr Manager, Wipro Ltd. delivered an expert talk on ‘Illumination System’ on April 05, 2022.

Mr. Rohan Garg, Alumni Nirma University, delivered an expert talk on “Career Guidance” April 4,2022.

Mr. Amol Poppli, Manager, Road Surfacing (West) at STP Limited (Berger Group Company) , Vadodara delivered an expert talk on ‘Repair Materials including Advancement with Case Studies’ on March 31, 2022.

Mr. Sanjeev Srivastava, CMD Aktion India Ltd delivered an expert talk on “Advanced Wastewater treatment” on March 30,2022.

Prof M M Joglekar, Mechanical Engineering Deptt. IIT Roorkee delivered an expert talk on “Material Selection in engineering design, using the Ashbey charts“ on Marhc 25, 2022.

Mr. Tirtha Banerjee, Head – Training, Dr. Fixit Institute of Structural Protection & Rehabilitation C/O Pidilite Industries Limited delivered an expert talk on ‘Water Proofing and Damp proofing Materials, Technology and case studies’ on March 24, 2022.

Mr. Ashim Karmakar & Rtd Consultant Adani Total Gas Ltd. delivered an expert talk on ‘Construction Project Management & Advanced Construction Technology’ during March 23 - 25, 2022.

Dr Raghunath Bhattar, Scientist, SAC, ISRO delivered an expert talk on "Advanced error control coding", from March 23-24, 2022.

Mr. Shubham R., ICT Bombay alumni with 5+Year Experience in Reliance Industries Ltd delivered an expert talk on “Application of Various Simulators/Software in Chemical Engineering” on March 19,2022.

Dr. Shishir Shah, Associate Dean for Research, Professor, Department Chair, University of Houston, Texas, USA delivered an expert talk on "Classification Techniques in ML", from Feb 28 to Mar 12, 2022.

Mr. Nihar Raj, works as Vice President, Head O & M, Adani Transmission Ltd. He is CIGRE, India chairman for national study committee B3 on substations and electrical installations and he is also a senior member of IEEE, Central Board of Irrigation and Power (CBIP). He delivered a session on the topic “Introduction to CIGRE India and Relevance to Electrical Engineering” on

March 24th, 2022 (online mode). In the said expert talk, expert discussed about CIGRE and research domain in this field. CIGRE deals with issues related to the development, operation, and management of electric power systems as well as the design, construction, maintenance of equipment, and plans. The mission of CIGRE is to promote and organize and collaborate with experts all around the world by sharing knowledge and joining forces to improve the electric power system today and tomorrow. CIGRE has a worldwide network of experts from ministries, generating companies, transmission and system operations, distribution operators, regulators, manufacturers, and academies. CIGRE develops technical knowledge using two main methods (i) conference and meetings where papers are presented and discussed (ii) studies carried out by study committees through the work of an international working group on identified industry issues.

Outcomes of the expert session: (i) Many students willing to work in the electrical power system domain (ii) Based on said session, many students have selected their minor and major project in said domain



Dr. Veepin Kumar Maurya, Assistant Director, MNRE, Government of India delivered an expert talk on “Rooftop Solar Projects: Progress and Schemes of the Government of India” on March 10,2022.

Dr. Sweta Shah, Professor, SVNIT, Surat delivered an expert talk on "Satellite Navigation", on March 9, 2022.

Shri. Darrell Merchant ,Technical Manager, Environ, Ahmedabad delivered an expert talk on “Monitoring of Air Pollutants releasing through Stationary sources” on March 2,2022.

Dr Ashutosh Bhatia, Assistant Professor, CSE Department, BITS Pilani, delivered an expert talk “An intuitive introduction to quantum computing for beginners”, on 22-Feb-2022.

Mr Achal Shah, Software Engineer, Tecton USA delivered an expert talk on “What industry expects from ML/DL researchers?” on 19 February, 2022.

Mr Vivek Ganatra, Sr. Manager, Reliance Ltd. delivered an expert talk on ‘Building Security and Automation’ during January 13 - February 03, 2022 .

Ms Megha Bhatt, delivered an expert talk on 'Plumbing System and Maintenance' during January 11- February 08, 2022

Mr. Nitin Wakode, Director, Mastercam Deccan IT Technologies delivered an expert talk on "CAD/CAM and CNC Programming with MasterCam" on January 28, 2022.

Mr. Bhavin Shah, Founder and CEO, SQVe consultants delivered an expert talk on 'Overview of MEP services for Civil Engineers' on January 27, 2022.

Mr. Nimit Sheth, CEO and MD, Ramana Safety and system delivered an expert talk on 'Fire Safety in Buildings' on January 25, 2022.

Mr Vaishwik Nakashi (Systems Software Engineer, Electronics Arts) delivered an expert talk on "Gaming industry for Engineers" on 19 February, 2022.

Mr. Ravi Kumar Verma, Engineer, Space Applications Centre (SAC)-ISRO, Ahmedabad delivered an expert talk on "Aerospace Materials- Present Trends and future perspectives" on February 16, 2022.

Mr. Nikhil Sonavane, an Education Technical Evangelist at MathWorks, Pune and Dr. Pranav Lad, Customer Success Engineer at MathWorks, Pune delivered an expert talk on "Introduction to MATLAB and Simulink and its application to Mechanical Engineering" on January 17, 2022.

Mr. Jignesh Panchal, Professor, ASIC/ FPGA Verification Engineer, Arm, Sweden delivered an expert talk on "Universal Verification Methodology (UVM)", on Feb 8, 2022.

Mr Piyush Bhan, Senior Vice President, Growth and International Expansion, Salucro Healthcare Solutions delivered an expert talk on "Industry Linked Faculties" on 7 February, 2022

Mr. Jaisheel Chhatrawala, Professor, Sensor Software Engineer, L & T Technology Services, Surat delivered an expert talk on "Real Time Embedded Systems", on Feb 8, 2022.

Dr. Arun Somani, Associate Dean for Research, College of Engineering, Iowa State University, USA, delivered an expert talk on "Single and Multi-cycle data path", from Feb 25 to Mar 10, 2022.

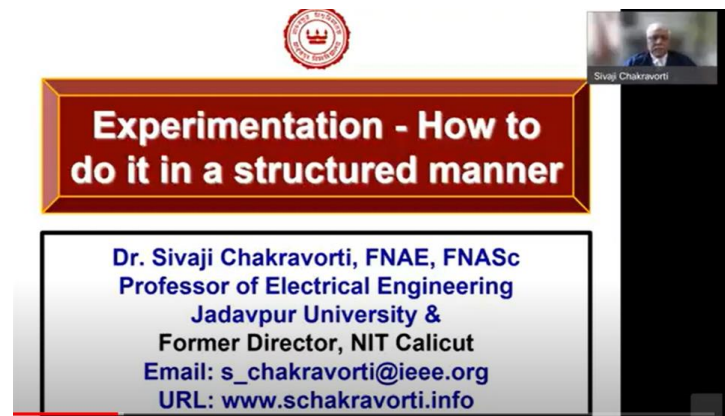
Prof. Shankaran Anirudhhan, Professor, IIT-Madras delivered an expert talk on "Research Opportunity in Analog Circuits", on Feb 7, 2022.

Dr. Madhushree B, NVIDIA DLI certified instructor Solution Engineer at NVIDIA delivered an expert talk on "Artificial Intelligence with NVIDIA JETSON" on 11 January, 2022.

Mr Jimish Parikh, Founder and CEO of Pedals Up delivered an expert talk on "Blockchain World and It's Development " on 5 February, 2022.

Mr Alok Shah, Aptitude and Placement Trainer delivered an expert talk “Preparing for Aptitude Test”, on January 28, 2022.

Prof. Dr. Sivaji Chakravorti, FNAE, FNASc, AvHumboldt Fellow Vice-President, Indian National Academy of Engineering – 2021, Professor, Electrical Engineering Department Jadavpur University, Kolkata delivered a session on the topic “Experimentation - How to do it in a structured manner” for B.Tech Semester IV & VI and M.Tech Semester II, EPS and PhD Scholars on January 19th, 2022 (online mode). In this session, the expert discussed how to start any experiment in a structured manner. Steps described by the expert were helpful to all for conducting experimental tests for research purpose. The talk was quite helpful for research work involving data analysis. Students can apply the learnings from this session to perform experiments properly and identify what is the further scope of improvement in their research or experimentation.



Mr. Lalit Gunjan of Disciple of Sadguru Swatantra Deo Ji Maharaj delivered an expert talk on “Importance of Yoga and Meditation in Students Life” on January 6, 2022.

Mr. Harikrushna Sheth, CEO, Engibrains Technologies, Ahmedabad delivered an expert talk on “IoT Trends in Industry” on 06-Jan-2022.

Mr. Poojan Parekh, Senior Lead Engineer, CEO, Oxvi, India delivered an expert talk on "Do We Realize the Extent of Our Potential? ", on Jan 6, 2022.

Dr. Amit Degada, University of Kentucky, USA delivered an expert talk on "Recent Advancement in Electronics Technology ", on Jan 6, 2022.

Mr. Dhaval Chauhan, Software Engineer, Koerber Pharma, USA delivered an expert talk on "The Future of Embedded System and Industry 4.0 ", on Jan 6, 2022.

Dr. Aditya Pandurangi, Psychiatrists, Karnataka delivered an expert talk on "Understanding Stress in Adolescents", on Jan 6, 2022.

Dr. Neha Bhardwaj Upadhyay, Faculty of Science Economics, University of Paris delivered an expert talk on "Activating the Truly International Professional: Our Role in Achieving the Global Sustainable Development Goals", on Jan 6, 2022.

Mr. Alok Bhatt delivered an expert talk on “Pursuing Career Goals” for B.Tech Semester IV, VI on January 6, 2022.

Mr. Haard Mehta, Alumni of Nirma University delivered an expert talk on “Higher Study outside India” on January 06, 2022.

Mr. Vatsal Kanabar, Chief Manager ICICI Lombard, Bengaluru delivered an expert talk on “Financial Management” on January 06, 2022.

Dr. Ravi Gandhi, Alumni of Nirma University, delivered an expert talk on “Research opportunity in IC” January 06, 2022.

Shri Ragunath Patil delivered an expert talk on ‘Advances in Concrete Technology’ on December 11, 2021.

Mr. Rupal Shah, Associate, Taknik Consultants, Ahmedabad delivered an expert talk on ‘Recent advancements in Design of Steel Industrial Building’ on December 10, 2021

Dr. S. Suriya Prakash, Professor and Head, Civil Engineering Department, IIT Hyderabad delivered an expert talk on ‘Shear and Torsional analysis of Reinforced Concrete Members’ on December 06, 2021.