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About Lucknow City: Lucknow, the city of Nawabs, is state capital of Uttar Pradesh, highest populated state of India. The city also known as work place of Ex. Prime minister of India, Shri Atal Bihari Vajpayee. In his tenure India could become atomic power.

About IET Lucknow: Institute of Engineering and Technology, Lucknow is well known engineering institution in North India. It was established in 1984 under UP state government. In Uttar Pradesh State Entrance Examination (UPSEE) it get the students for admission in UG/PG programs with top ranks. It offers UG programs in Electronics & Communication Engineering, Electrical Engineering, Mechanical Engineering, Computer Science & Engineering, Civil Engineering, Chemical Engineering, Information Technology and Electronics & Instrumentation Engineering. It offers PG programs as MCA, MBA and M.Tech in Bio-Technology, Micro-Electronics, Electric Drive and Control, Mechanical Engineering, Environment Engineering and Structural Engineering. It also offer PhD program related with all departments offering UG/PG programs.

About Department of ECE: The Electronics & Communication Engineering department at IET Lucknow producing quality engineers. The self financed UG program in Electronics & Instrumentation Engineering and self financed PG program (M.Tech) in Micro-electronics are also running by faculty members on consolidated salary. In support of AKTU and TEQIP some teaching cum research fellows doing their PhD degree under able supervision of senior faculty members involved in the research work of their area.

Conference Objective and Scope:

The conference objective to increase the involvement of UG, PG, PhD students and faculty members of Engineering institutions in research and projects development in field of defense and space technologies to make India a world leader in Defense and Space Technologies.

Important Dates: Abstract Registration: till 15 July 2019,
Paper submission: till 31 July 2019,
Review and Revision: till 15 Aug 2019,
Conference date: Aug 23-25, 2019.

International Conference on Defence and Space Technologies (ICDST-2019)

Under TEQIP III scheme of
Government of India on
AUGUST 23-25, 2019

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Theme of Conference:

This conference is about to motivate engineering students, research scholars and faculty members to contribute the nation by producing technologies for defence of country and space technologies with their applications for human kind

Call for Papers:

The authors are invited to submit their research / review papers and case studies/project-model / poster presentation in the myriad of conference themes listed below but not limited to:

Defence Technologies: Aeronautics, Air-Borne Systems, Armament Testing, Armaments, Artificial Intelligence & Robotics, Avionics, Ballistics, Bio-Energy, **Bio-engineering**, Camouflaging and Isotopes, Chemical & Biological Warfare, Cipher Systems, Combat Vehicles, Computational System, Cryptology, Electronic Warfare, **Electronics & Communication Systems**, Electronics & Optical Systems, Engineering Systems & Weapon Platforms, Explosives, **Food Research**, Gas Turbine, Health & Hygiene, High Altitude Agro-animal Research, High Energy Materials, High Energy Weapons, Laser Technology, Metallurgy, Microwave Devices, Missile & Strategic Systems, Missile & Strategic Systems, Naval Materials, Nuclear Medicine, Parachutes & Aerial Systems, Physiology, Psychological Research, Radars, Snow and Avalanche, Solid- State/ Semiconductor Materials, Sonar Systems, Terrain Research, Textiles, Polymers & Composites, Underwater Weapons, Wheeled Vehicles, High Energy Materials, Advanced Systems, Airworthiness & Certification, Information System and Documentation, Systems Integration, Systems Analysis, Missile Systems, Propellant, Life Sciences, Cryptology, Millimeter Wave and Semiconductor, Composite Materials, Sensors & MEMS, Propulsion Technology, Strategic Systems, Photonic Technologies, Plasmonics and Quantum Photonics, Systems Design.

Space Technologies:

Aerospace, Aerospace Structures, Propulsion, **Control**, Guidance & simulation, Aerospace Materials, Composites & **mechanical Systems**, Transducers & Sensors, Structures & Fabrication, Avionics, Safety Engineering, Gravity Gradiometer, Precision Relative Navigation and Attitude Reference System, Ultrasonic Motor, Smart PCBs - Stress Strain Sensitive Films, Accelerometer, Vision Aided Inertial Navigation System - Image Processing Launch vehicle tracking system Launch pad Testing of liquid propulsion system, **SATCOM Technology**, SATCOM Applications, Mechanical Engineering Systems, Electronics Support Services, Antenna, System Reliability, Mission Development Area, Communication and Power, Integration and Checkout, **Mechanical Systems**, Controls and Digital, Reliability and Components, Systems Production, VLSI Design, CMOS Process Technology, Development and Educational Communication, Navigation Programme, **Earth Observations**, Mission development and Remote Sensing-Sensor Technology, Remote Sensing Image Processing and Software Development, Satellite Data Reception & Ground Station, Earth, Ocean Sciences

Applications, Aerial Remote Sensing, Earth and climate sciences, Disaster Management, **Space Sciences**, Investigation on Near Earth Environment, Atmospheric dynamics and coupling, Sun and Solar System, Astronomy and Astrophysics, Space Instrumentation, Remote sensing data analysis from Planetary Exploration Missions, Laboratory study of Astromaterials, Study of terrestrial analogues of Moon and Mars, Payloads for upcoming Planetary Missions, **Meteorology**, Weather and Climate, Radiation, Aerosols and Trace gases, Microwave atmospheric studies, Signal and Data processing, Radar and Lidar instrumentation for atmospheric probing, Meteorology facility for Launch Vehicle.

Electronics and ICT: Soft Computing, Cloud Computing & Nano-Computing, Web Technology & Web Designing, Data Base Management System, **algorithms**, Data Mining, Grid Computing & Internet Technology, Information & Data Security and Digital Security, Emerging Telecommunication Technology & Next Generation Network, Coding and Information Theory, Wireless, UWB, Ultrasonic Communications, Satellite Communications; Radio-over-Fiber, Free Space and Fiber-Optic Communications; Software Defined Radio, Cognitive Radio, Embedded System, Robotics, Industrial Instrumentation, Data Communication & Grid networking, Bio-Computation Technique, **Biomedical Sensor & Instrumentation**, Biomedical Applications, Nano-fabrications, Computer Integrated Manufacturing & its subsystem, Future Technologies in Optical Communications, Security & Privacy in Optical Networks, Optical Networks and Components, Fiber Optic Sensors and Instrumentation, Energy Conversion, management, energy efficiency and energy storage, Energy policy, Planning & Economics, Green Technology & its applications, Nano Technology & Photonics, Nano-fabrication & Computing, Materials for Electronics, Knowledge Management, Computer-Aided Diagnosis 3D-Computer Vision system & application, Decision Making, Intelligent Systems and ICT applications, Image, Speech and **Biomedical Signal Processing**, Biometrics & Authentication, Image Based Human-Computer Interaction, Biomedical Applications in Molecular, Structural, and Function Imaging, AI, Fuzzy Logic & Neural Systems, **Electrical** Power Electronics Converters and Drives, FACTS and HVDC technologies, Power System Economics & Restructured Power Systems, Distributed & Co-Generation, Energy Conservation, Optimal Control, Robust Control & Networked Control Systems, Nonlinear Systems and Control, Analysis and Design of Electrical Machines, Traction & Electric Vehicle Drives, Industrial Drives, Control of Electric Drives, Micro-electromechanical System, process & technology and application areas, **Mechatronics**, Microwave Devices / Components Design & Techniques, RF, Microwave & Millimeter wave systems and applications, **Nano-scale Integration** of Planar, Free-Space, and Mixed Subsystems, Reconfigurable system, Analog / Digital / Mixed-Signal Circuits, RF circuit design, MMIC & CMOS Circuits Remote Sensing and Geo-informatics,

Poster Presentation and Model Demonstration:

Robotics, Bio Robotics, Artificial Intelligence, Neural Networks, Artificial Environment, mosquito modelling, Aerodynamics, Studies of natural systems, Logical Imagination and proposals, **Non-conventional energy resources**, Clouds spark and lightening, Satellite Communication, Solar Energy and Stations for satellites, Satellite sensor network, Image Processing, Soil testing based on light reflections, Applications of satellite technologies, Analysis of historical studies and proposals, Applications for Defence system, Bio-Medical and Health in space and satellite, **Mathematical modelling and research**, Wireless optical communication, Space war, Nuclear radiations and defence, Missile technologies and defence system, Medical and health after nuclear explosion, Air and water purifier, Self Protections to be used at time of war, Earthquake and tsunami, Sea waves and energy, Solar System and its role in universal system.

Tutorials on Important Topics

Tutorial/Lectures covering the recent important topics in the areas of defence and space technologies will be delivered by experts in the Defence, Space, Electronics and ICT fields. Certificates of attendance will be issued. **Registration Fees** Rs 3000/- for participant, Rs. 5000/- for Author, No fee for students as participants if registered on

www.icdst.ietlucknow.ac.in.

Instruction for

Authors

Prospective authors are invited to submit original and unpublished papers in the conference; full text manuscript in IEEE template is to be submitted & length of paper is limited to maximum of six pages. Authors are required to submit the papers through Easy Chair conference management system for ICDST2019 or e-mail the papers to icdst@ietlucknow.ac.in Papers must be only in .doc file format, Finally the selected papers for presentation in conference can be published in selected Scopus indexed journals/ SCI journals after minor revisions as suggested by peer reviewers in the format of journals. List of journals is displayed on website.

GMap location of IET Lucknow: Dept. of electronics engineering, IET Lucknow, Sector F, Jankipuram, Lucknow, Uttar Pradesh 226021

<https://maps.google.com/?cid=12781453035130993833>

How To reach IET Lucknow: From Amausi Airport Lucknow, one can book taxi directly to institute (35 Km away) locally known as Engineering college (Jankipuarm) and from Charbagh Lucknow railway station to institute (Engineering College)(12 Km away). From Amausi Airport or Charbagh railway station one may come to Munshi Pulia (7 Km aay from IET) through Lucknow Metro train and then through taxi to Engineering Colleg from Munsu Pulia.

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