

Innovative Research in “Engineering, Sciences, Environment, Business Management and Humanities for Sustainable Development (ESEBH-2022)”



Organized by:

Aryabhata DSEU, Ashok Vihar Campus

G.T. Karnal Road Delhi

and

Krishi Sanskrit, New Delhi

on

29th - 30th October 2022

Venue: Aryabhata DSEU

Ashok Vihar Campus

G.T. Karnal Road Delhi 110033

Sh. Jagvir Singh

HOD, (Electrical Engineering)

Aryabhata DSEU

(Chairman)

Sunil Kumar Tiwari

Faculty In-Charge (External

Relations & Placements)

Dr. G.C. Mishra

President,

Krishi Sanskriti

(Convener)

Campus Director

Shri Anil Kumar Choudhary

Aryabhata DSEU

(Chief Patron)

Dr. R.D. Sharma

Aryabhata DSEU

Ashok Vihar Campus

(Patron)

Dr. Mayank Pande

Dept. of Electrical Engineering

Aryabhata DSEU, Ashok Vihar Campus

(Organizing Secretary)

Call for Papers and Conference Themes

The Organizers cordially invites Abstracts and Full Research Papers for oral/poster presentation from all over the world to participate/present and publish their research papers in the International Conference on **Innovative Research in “Engineering, Sciences, Environment, Business Management and Humanities for Sustainable Development (ESEBH-2022)** on the following scientific areas for presentations and discussions thereafter.

These engineering subjects are emerging and promising discipline in shaping future research and development activities in both Academia and Industry. The conference aims at providing an opportunity for exchange of ideas and dissemination of knowledge among Academia, Industry, Research Scholars, Scientists, Entrepreneurs and N.G.O. for sustainable growth of the society. Contributions are invited from prospective authors from related areas. All contribution should be of high quality, Original and not published elsewhere or submitted for publication. During the review period, Papers will be reviewed by eminent scholars in the respective areas all selected papers will be published as conference proceeding with ISBN No. and few high-end papers will be published in international journal having ISSN No. which will be issued to authors on the day of conference.

About the University: The Delhi Skill and Entrepreneurship University (DSEU) was established in August 2020 by the Government of NCT of Delhi to equip students with world-class skill education to enable access to aspirational jobs and inculcate entrepreneurial mindset and entrepreneurship. DSEU aims to create a win-win for the youth and the industry by filling the existing gaps in skill training.

There will be best paper presentation awards in Oral/Poster category.

Topics of interest for submission include, but are not limited to:

Track No. I: Engineering/ Technology

Theme I

Electrical engineering

- Automation, control and instrumentation
- Electrical and electronic materials
- Power management system
- Transmission lines

Power & Control Systems

- Advanced Power Semiconductors
- Analysis of Power Quality and System Stability
- Circuits and Electronics
- Control Science and Control Engineering
- Converter/Inverter Topologies
- Electric Drivers and Application
- Electrical Machinery, Motor Drives and Power Electronics
- Embedded Systems and Software
- Industrial power systems
- Power Distribution

Power Generation – Conventional and Renewable

- Hydropower technologies and applications
- Thermal power technologies and applications
- Bio-energy technologies, process and utilization
- New technologies and design for energy efficiency
- Wind, Solar and Renewable Energy Sources

Power Transmission and Distribution

- Ultra High Voltage (UHV) technologies
- HVDC and flexible AC transmission system
- Over-voltage, lightning protection and grounding

Photonics, Optoelectronics and Quantum Electronics

- 3D Semiconductor Device Technology
- Advanced Electromagnetics
- Digital Electronics
- Digital Signal and Image Processing etc
- Electronics & Nano Electronics
- Fiber-optic sensor and networks
- Instrumentation engineering

Smart Grid Technologies

- Concept and structural framing
- Dynamic optimization and control
- Smart appliances and consumer devices

Advanced Communication

- e-Governance, e-Government, e-Commerce, e-Learning, e-Health
- Network Management, Operation and Maintenance

Them II: Civil, Architecture and Environmental Engineering

Architecture and Civil Engineering

- Buildings, urban life and environment
- City Planning and daily life

- Modern architecture as a new way of producing space
- Multidisciplinary Studies on architecture
- Sustainable design, construction and development
- Constructional Safety
- Pre-Stressed concrete Box girders
- Seismic Analysis Of Structures (Bridges)
- Seismic Retrofitting In Buildings
- Smart Materials
- Smart Structures

Architecture and Urban Planning

- Architectural Design and Theories
- Architectural Engineering

Civil, Structural and Material Engineering

- Bridge and Tunnel Engineering
- Chloride Corrosion in Concrete Beams
- Civil Engineering Materials

Materials Science and Engineering

- New constructive Techniques and Systems
- New Structure and Special Structure
- Non-Destructive Testing
- Urban Transportation Planning
- Water Supply and Drainage Engineering

Transportation and Urban Infrastructure:

- Highway and traffic engineering
- Road structure and pavement

Theme III: Electrical and Electronics Engineering

Theme: 1 Mechanical, Aeronautical and Automobile Engineering

Mechanical Properties of Materials

- Advanced Characterization
- Electronic Materials
- Materials for Energy and Environmental Applications
- Organic Polymer Materials

New Materials and Advanced Materials

- Non-ferrous Metal material
- Iron and Steel
- Composites
- Biomaterials
- Polymeric Materials

Mechatronics

- Design, Modeling and Simulation of Mechatronic systems
- Mechatronic Education

Machine Design

- Actuator Systems
- Coatings and Surface Modification
- Cutting/ Forming/ Grinding/ Polishing
- Design for Manufacturability (DFM)

Production and Mechanical Engineering

- Advanced and Digital Manufacturing
- Applied Mechanics
- Biomechanics
- Composite and Smart Materials
- Fluid Mechanics and Machinery

Manufacturing Engineering

- Advanced Design, Production Processes and Devices
- Design of Machines and its Applications
- Engineering Design Methodology and Design Models

Automation and Equipment Manufacturing

- Advanced NC Techniques and Equipment
- Embedded System
- Industrial Robotics and Automation
- Intelligent automation

Engineering and Automation

- Advances in Metal Forming
- Advances in Quality Control in Multistage Manufacturing Systems

Aerospace Engineering (Aeronautical and Astronautical)

- Advanced In-Space Propulsion & Power Concepts
- Aero elasticity and Space faring

- Aerospace Propulsion Systems
- Aerospace Structures and Materials
- Aircraft Design and Technology
- Atmospheric Flight Dynamics
- Flight Dynamics, Control and Performance
- Spacecraft Design and Technology
- Unmanned Air Vehicle

Nanotechnology: Fundamentals and Applications

- Computational nanoscience and nanotechnology
- Mechanical Properties and Nanomechanics
- Multifunctional nanomaterials

Theme IV: Computer Science and Information Technology

Software Engineering

- Component Based Software Engineering,

Mobile Learning

- Augmented Learning,
- Virtual Learning ,
- Blended learning,
- Cloud Computing for E-Learning,
- E-Learning Portals,

Information Technology

- Artificial Intelligence and Machine Learning,
- Computational Intelligence,
- E-Learning & E-Business,
- Fuzzy, ANN & Expert Approaches,
- Information systems & Applications,
- Management Information Systems,

Computer Graphics and Modeling

- Geometric Algorithms,
- Surface Modeling,

Human-Computer Interaction

- Collaborative System Design,
- Graphical Interfaces,
- Web Designing,

Image and Image Processing

- Digital Photography,
- Image Acquisition Techniques,
- Image Data Management,
- Internet Imaging,

Databases

- Data Mining and Warehousing,
- Database and Information Systems,
- Distributed Databases,
- Text Mining,
- Web Databases and Filtering,

Algorithms

- Fault Tolerant Algorithms,
- Optimization Algorithms,
- Fuzzy logic based system,
- High Performance Computing,
- Nano Computing,

Communications

- Ad hoc and sensor networking,
- Cognitive science,
- Optical networks and systems,
- Wireless communications and networking

Track No. II: Applied Sciences

Theme1 : Physical Sciences

Condensed Matter Physics

- Computational solid state physics
- Crystallography
- Semiconductors physics and devices

Engineering and Industrial Physics, Instrumentation

Metrology and Standards

- Medical/biological physics, health physics
- Advances in instrumentation and techniques
- Applied non-linear physics

- Biomedical image processing and analysis
- Finite element analysis
- Microelectromechanical Systems (MEMS)
- Optimization techniques
- Separation and purification processes

Physics and material science

- Applications of Microscopy in the Physical Sciences
- Applied Solid State Physics/Chemistry and Materials Science and Technology Advanced Materials
- Physical Chemistry
- Semiconductors devices and Photonics, Opto-electronics

Theme2: Mathematics/ Statistics

Computational Mathematics, Computational Geometry & Statistics

Mathematics

- Difference and Functional Equations
- Discrete Mathematics
- Fuzzy mathematics and its applications
- General Algebraic Systems
- Integral Equations
- Lattices, Algebraic Structures
- Measure Theory and Integration
- Operations Research, Optimization
- Operator Theory
- Ordinary and Partial Differential Equations

Applied Mathematics & Statistics

- Engineering Mathematics
- Logistics Management
- Operation Research

Geometry & Its Applications

- Geometry & Its Application
- Differential Geometry
- Kinematics

Algebraic Statistics & Its Applications

- Algebra & Mathematical Logic
- Algebraic Geometry
- Algebraic Statistics & Its Applications
- Financial Mathematics & Computation
- Functional Analysis
- Mathematical Actuary
- Mathematical Methods in Continuum Mechanics
- Number Theory
- Operator Algebra
- Ordinary Differential Equation
- Probability & Statistics Applications
- Probability Theory & Mathematical Statistics
- Stochastic Process

Theme 3: Energy and Environment

Energy Science and Technology

- Alternative transportation fuels, sustainable transport
- Appropriate energy technologies for rural development,
- Clean coal technology and IGCC, fluidized bed systems
- CO₂ Capture and Storage, CO₂ and Emission Issues,
- Combustion system modeling and analysis, clean combustion
- Corporate Social Responsibility initiatives for energy management
- Development and Utilization of Biomass Energy
- Development and Utilization of Wind Energy
- Driving investment in power and renewable assets
- Eco-friendly power projects

Environmental Science and Engineering

- Architectural Environment & Equipment Engineering
- Clean Production Process
- Environmental Analysis and Monitoring
- Environmental Planning and Assessment
- Environmental Safety and Health
- Geographic Information and Remote Sensing Science

- Land Resources Environment and Urban Planning
- Pollution Control Project (Air, Water, Solid)
- Soil and Water Conservation and Desertification Control
- Waste Disposal and Recycling

Theme 4: Basic and Applied Biology

Botany

Zoology

Molecular Biology

Biochemistry

Cell Biology

Cancer Biology

Immunology

Genetics

Agro-ecology

Soil Science

Agronomy

Track No. III: Humanities

Gender,

Governance,

Education,

Laws

Anthropology

History

English

History

Linguistics

Literature

Philosophy

Politics

Psychology

Religious studies

Social Sciences

Women's studies

Track No. IV: Various Business Management

Business Management

Marketing

Banking

Finance

Economics

Accounting

Tourism

Business Statistics

Business Ethics

Textile Engineering

- Advancements in yarn and fabric manufacturing
- Recent developments in apparel manufacturing
- Textile Composite Materials
- Developments in textile machinery
- Recycling in textiles
- 3D Textiles

Fashion and Textile

- Textile Dyeing and Printing
- Fashion and textile product design
- Garment industry and merchandise
- Clothing science and technology
- Fiber science and smart textile
- Natural dyes and dyeing

Digital Textile

- Industry strategies
- Digital fashion
- Digital textile inks

Textile Engineering

- Advanced Fabric
- Advanced Garments Manufacturing
- Advanced Wet Processing
- Advanced Yarn
- Apparel Design and Manufacturing
- Boiling and Dyeing Technology

- Carding
- Fashion & Design Technology
- Fibers for the Next Generation
- Fundamental of Textile Science and Technology
- Knitting Technology

Important Dates

Abstract Submission:

Abstracts not exceeding 300 words on any of the aforesaid themes should be sent to the Organizing Secretary through email at dseuconference@gmail.com on or before **12th October 2022**.

Submission of Full Length Research Paper & Copyright Form

Full length research paper, in word format double column maximum in 6 pages and copyright form should be submitted together as separate attachment latest by **18th October 2022** through email at dseuconference@gmail.com

Submission of Registration Details:

Submission of Registration Form/Details: **24th October 2022**. Registration process can be initiated after receiving acceptance letter of full paper.

NOTE: In case Research article is accepted by the editorial committee it will be published and released on the day of conference in case the delegates are not able to physically present their paper due to some or other reason his/her research paper will be published (in absentia) and published copy along with certificate will be dispatched to his/her correspondence address by post just after the conference at no extra cost. **All communication should be by e-mail/online only (no hard copy is required to be posted).**

Mandatory steps to be followed:-

1. In case of multi authored research paper, at least one full Registration is mandatory.

Registration Charges:

Categories	Indian Delegates	SAARC/African Country Delegates	Rest of the countries
Academic faculty/Industrial Delegates	3500 INR	150 USD	250 USD
Research Scholars(Ph.D) / NGO Representative	3000 INR	100 USD	200 USD
Students(B. Arch. /B.Tech / M. Arch. /M.Tech /M.Sc etc)	2500 INR	75 USD	150 USD
Printing of Additional Page in Books /Journals	300 INR	15 USD	20 USD
Listener / Accompanying Member	1200 INR	70 USD	100 USD
Book/Journal & Certificate (additional copy) for Co-Authors in absentia (if required)	700 INR	20 USD	30 USD
Only Books/Journal (additional copy) for Co-Authors in absentia (if required)	400 INR	15 USD	25 USD
Only Certificates (Co-Authors in absentia)	400 INR	10 USD	20 USD
Additional Research paper for same authors	1000 INR	25 USD	35 USD

Local Organizing Committee:

Dr. Diptimal, (Co-Convener)

Dr. S.K. Trivedi, (Treasurer)

S.K. Barnwal and Manish Sthapak, (Catering In charge)

Jitendra Kumar and Dr. Jaji Vergese, (Transport In charge)

Madan Joshi, (Estate Manager)

2. In case other author/co-author wish to physically attend the conference they need to pay full Registration fees individually, separate Journal & Certificate along with the conference kit will be issued to them. Co- Authors are requested to fill & submit separate Registration forms in case they are physically attending the conference.
3. Charges for extra copy of Journal/ Certificate for other Co-author (if required) should be paid along with preliminary Registration by the corresponding author.
4. Co-Authors will not be considered as accompanying person. Listeners are not entitled for free accommodation (it will be on paid basis). However they will be issued conference kit and participation certificate.
5. Selected / accepted papers will be recommended and forwarded to SCOPUS indexed journals for publication with additional charges of **Rs. 12000.00** per research article.

All Selected papers will be available online after 15 to 20 days of conference date over, in order to download the papers the authors need to go in the publication section of Krishi Sanskriti website.

Bank Details for Registration:

Bank Details mentioned below for **RTGS/ Wired Transfer or Online Transfer:**

Beneficiary Name	:	Krishi Sanskriti
Bank Name	:	Canara Bank
Bank Address	:	Jeet Singh Marg, New Delhi
Account No.	:	1484101026988
Account Type	:	Savings
IFSC Code	:	CNRB0001484
Swift Code-	:	CNRBINBBBID

Members:

Ar. Hiranmay Biswas

HOD, Dept. of Architecture Assistantship, Aryabhatt DSEU

Sh. Anupam Upadhyay

HOD, Dept. of Civil Engineering, Aryabhatt DSEU

Dr. M.S. Rao, Dept. of Civil Engineering, Aryabhatt DSEU

Dr. A. K. Ahluwalia, HOD, Mechanical, Aryabhatt DSEU

Dr. K.R. Ranjan, Faculty, Mechanical, Aryabhatt DSEU

For further information and Latest Updates, Write us at E-mail: dseuconference@gmail.com

Visit our Website: <https://dseu.ac.in/about-dseu/> or <http://www.krishisanskriti.org/ESEBH-2022.html>

Contact No. : +91-8527006560