



2nd

International Conference

On

“Innovative Research in Agriculture, Engineering, Technology, Applied Sciences, Humanities and Business Management for Sustainable Development” (AETAHBS-2023)

Organized by:

Pusa Institute of Technology (Delhi Skill and Entrepreneurship University (DSEU) Pusa Campus)



Dr. Rajinder Singh
Pusa Institute of Technology,
Pusa, New Delhi
(Organizing Secretary)

Dr. Vikas Rai
University of Eritria
(Convener)

About the Host Institute:

and
“Krishi Sanskrit” New Delhi
Supported by:- Dr.G.C. Mishra Education Foundation

On
24th & 25th
November, 2023

Venue

Pusa Institute of Technology, Pusa, New Delhi

Dr. O.P. Singh
Principal,
Pusa Institute of Technology
Pusa, New Delhi
(Chairman)

Dr. G.C. Mishra
President,
Krishi Sanskrit
(Convener)

Pusa Institute of Technology formerly known as Pusa Polytechnic is a premier engineering college in New Delhi, India established in 1962. It is affiliated to the Board of Technical Education, Delhi of the Government of Delhi. DSEU's Pusa campus resides in the heart of Delhi, where talent meets skill training.

The distance from New Delhi Railway station to Institute is 7.5 KM. and nearest metro station is Patel Nagar or Rajendra Nagar which is 3.5 KM. distance from IGI airport 13 KM. out station delegates wish to get accommodation can book hotel by OYO rooms by themselves.

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 Agriculture, Engineering, Technology, Applied Sciences, Humanities and Business Management for Sustainable Development”(AETAHBS-2023) 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 chapters in edited book/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.

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: 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 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

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

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

Refrigeration & air conditioning

- Working principle of a refrigerator
- Cycle of refrigeration
- Advantages of refrigeration
- Main components of refrigeration cycle & its functions
- Condensation
- Expansion
- Evaporation
- Applications of refrigerations systems
- Compression
- Working principle of a refrigerator
- Cycle of refrigeration
- Advantages of refrigeration
- Main components of refrigeration cycle & its functions
- Condensation
- Expansion
- Evaporation
- Applications of refrigerations systems
- compression

Note:

Some high quality Research papers will be published in Scopus indexed journals on additional processing charges.

Engineering and Industrial Physics, Instrumentation

Metrology and Standards

- Medical/biological physics, health physics
- Advances in instrumentation and techniques
- Applications of microscopy and imaging techniques in the physical sciences
- Applied non-linear physics
- Biomedical image processing and analysis
- Finite element analysis
- Microelectro mechanical 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
- Emission, climate change, implementation of emission mitigation Technologies

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

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 info.pitconference@gmail.com on or before **10th November 2023**.

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 **15st November 2023** through email at info.pitconference@gmail.com

Submission of Registration Details:

Submission of Registration Form/Details: **18th November 2023**.
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 publication link will be shared to the delegates 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 their conference 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.
2. In case other author/co-author wish to physically attend the conference they need to pay full Registration fees individually, separate 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.

Registration Charges:

Categories	Indian		Foreigner			
	Early Bird Before 15th October 2023	Regular Fee After 15th October 2023	Early Bird Before 15th October 2023	Regular Fee After 15th October 2023	Earl Bird Before 15th October 2023	Regular Fee After 15th October 2023
			SAARC/African Country Delegates		Rest of the countries	
Academic faculty / Industrial Delegates	3500 INR	4000 INR	125 USD	175 USD	250 USD	300 USD
Research scholars PhD	3000 INR	3500 INR	100 USD	150 USD	200 USD	250 USD
Student UG and PG	2500 INR	3000 INR	75 USD	125 USD	150 USD	200 USD
Students (I.T.I & Polytechnic/Diploma)	2000 INR	2500 INR	70 USD	120 USD	85 USD	135 USD
Listener/Accompanying Member	800 INR	1300 INR	70 USD	**	**	**
Only Certificates (Co-Author in -absentia)	300 INR	800 INR	10 USD	60 USD	20 USD	70 USD
Additional Research paper for same authors	1000 INR	1500 INR	25 USD	75 USD	35 USD	85 USD

Member Organizing Committee:

Sh. Atul Srivastava, Lecturer, Dept. Mech. Engineering
Sh. Kapil Gauri, Lecturer, Dept. Mech. Engineering
Dr. Sukhwinder Jeet Singh Bhatti, Lecturer, Dept. Mech. Engineering
Sh. Ratnesh Gupta, Lecturer, Dept. Mech. Engineering
Dr. Ajay Kumar Yadav, Lecturer, Dept. Mech. Engineering

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Mr. Bharat Singh Yadav, Lecturer, Dept. Mech. Engg
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Mr. S.S Parashar, Lecturer Elec. Engineering
Dr. Reetu, Lecturer Dept. Elec. Engineering
Mr. Hadev Meena, Lecturer, Dept. Elec. Engg

For further information and Latest Updates, Write us at
"info.pitconference@gmail.com"

visit our Website: <https://krishisanskriti.org/AETAHBS-2023.html>

Contact No. : +91-8527006560

3. Charges for extra copy of Certificate for other Co-author (if required) should be paid along with preliminary Registration by the corresponding author.
4. 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 : CNRBINBBID

Note:-

We can also Publish your research papers in scopus indexed or other indexed journal on paying additional processing fee as below:

1. Journal Name: International Journal of Intelligent Systems and Applications in Engineering (IJISAE)ISSN: 2147-6799
Indexing: Scopus: SJR Rank-Q3, UGC CARE Group-II, Google Scholar
Journal Link: <https://ijisae.org/index.php/IJISAE>
Scopus Link: <https://www.scopus.com/sourceid/21101021990>
2. Journal Name: International Journal on Recent and Innovation Trends in Computing and Communication Scopus coverage years: 2019, from 2021 to Present
Publisher: Auricle Global Society of Education and Research E-ISSN:2321-8169
Subject area: Computer Science: Computer Networks and Communications Computer Science: Human-Computer Interaction Computer Science: Information Systems Computer Science: Software Engineering: Electrical and Electronic Engineering
Journal Link: <https://www.ijritcc.org/index.php/ijritcc>
Scopus Link: <https://www.scopus.com/sourceid/21101089961>
3. ABDC Journal list

Journal Name: Journal of Informatics Education and Research Center for Research and Management Services
ISSN: 1526-4726
Journal Link: <http://jier.org/>
Indexed In ABDC-Rating: C

4. Journal Name: European Economic Letters
Publisher Name: European Economics Letters Group
ISSN: 2323-5233, E-ISSN 2323-5233
Journal Link: <https://www.eelet.org.uk/index.php/journal/index>
Indexed In ABDC-Rating: C
Subject Area: Applied Macroeconomics, Economic Development, Technological Change and Growth, Econometrics, Theoretical and Applied applications, Financial Economics, Health, Education, and Welfare, International Economics, Public Economics.
