

## SYNOPSIS

Basic sciences like Mathematics, Physics, and Chemistry are at the foundation of all branches of engineering and technology. The fundamental concept of basic sciences are applied by engineers to solve problems posed by the NATURE in our day to day lives. The basic sciences, thus, help us to develop various technologies and these technologies, in turn, help us to engineer the materials and resources for the well-being of humanity. Thus, basic sciences are often termed as Applied Sciences.

While the basic sciences provide the knowledge required for ensuring physical well-being of man kind, knowledge provided by various branches of Humanities helps us in dealing with our social well-being. Our linguistic capabilities, imagination, and psychological and sociological traits ultimately furthers our learning abilities, propagate knowledge, as well as explore technology to create a newer vision for the world. Thus, Humanities is canvas painted in the gradients of morals and technology amalgamated with humanistic approach over abiotic components. Furthermore, humans have shown impeccable strength in accepting its shortcomings, modifying its approach and diving deeper in the nature's pool in order to explore that tiny support that engineering requires in its evolution process.

The core discussion, here, would be if the recent trends in applied sciences and humanities have it in them to prepare and support modern engineering as they have perpetually been doing. If yes, what and how do those trends help in doing so? If not then what and how are the course-correction required? Therefore the title "Recent Advances in Applied Science and Humanities in the Evolution of Engineering".

## OBJECTIVE

The conference is an attempt at promoting basic sciences and humanistic studies through scholarly researches. It aims at providing a platform to hold scholastic deliberations and engagements to appropriate concurrent ideas.

It will provide an opportunity to the delegates from all fields of Applied Sciences and Humanities to forward their ideas, which would help in the growth of the society through discussions, deliberations and innovations. It also aims at:

- Encouraging scholarly discussions on the ongoing researches in the field of Applied Sciences and Humanities.
- Contributing towards the sustainable development of the nation in particular and the world as a whole.
- Providing a comprehensive overview of the current state of research and exploring new avenues for future growth.
- Establishing coherence between core subjects and allow fraternization of different ideas.
- Publishing a high-quality special issue research periodical with international reach.



## CONFERENCE TRACKS

### Track 1: Physical Sciences

- Nuclear and Particle Physics
- Quantum Materials and Topological Insulators: Theoretical and Experimental Insights
- Synthesis and characterization of nanomaterials
- Nanostructured materials
- Solar cells
- Chemical sensors
- Soft Matter Physics: Modelling and Simulation
- Plasma Physics in Material Synthesis and Processing
- Magnetic Materials: Theory, Synthesis, and Characterization
- Advanced Spectroscopic Techniques for Material Analysis
- Biophysics: Bridging Physics and Biology in Materials Research

### Track 2: Chemical Sciences

- Green chemistry
- Medicinal chemistry
- Computational chemistry
- Modern spectroscopic techniques
- Biochemistry
- Nanomaterial
- Pharmaceutical chemistry

### Track 3: Mathematical Sciences

- Applied mathematics and mathematical modeling
- Fuzzy mathematics
- Computational Mathematics
- Differential equations
- Topology and algebra
- Probability and statistics
- Applied statistics inference
- Sampling techniques and numerical techniques
- Operations research and graph theory
- Optimization techniques and fluid mechanics

### Track 4: Humanities & Management Sciences

#### HUMANITIES:

(English, Psychology, Sociology, and Communication Studies)

-Travel Literature

-European languages and literatures

-Comparative literature, literary theories, and culture studies

-Linguistics, language politics, and education

-Forensic linguistics and global literature

-Communication studies and life skills

-Challenges of the 21st century (democracy, environment, inequalities)

-Mental health topics, including effects of COVID-19 on children and adolescents

#### MANAGEMENT SCIENCES :

-Human Resource Management (HRM)

-Marketing, brand management, and consumer behavior

-Financial economics and e-commerce management

## GUIDELINES

### ACCOMODATION

Accommodation will be provided to the participants on actual payment basis with prior information. Participants are requested to intimate their preference for the accommodation at the earliest possible so that organizers can reserve the accommodation based on availability. There are limited rooms available in the University Guest House. Once the Guest House is full, participants will be accommodated in hotels nearby the campus. Please bring a valid ID for verification at the reception.

### Places to Visit Around

- Ayodhya (135 Kms)
- Naimisharanya(84Kms)
- Varanasi (313 Kms)
- Kanpur (90 Kms)
- Prayagraj (200 Kms)
- Gorakhpur (275 Kms)
- Jhansi (316 Kms)
- Vrindavan (399 Kms)
- Agra (335 Kms)

### ABSTRACT

### SUBMISSION

- Deadline for abstract submission: 30 January 2024.
- Abstracts should be limited to 150 words and include 5 keywords.
- Format: Typed in Times New Roman (12p) within 25×14cm on A4 size paper, with single spacing.
- Abstracts should be submitted in MS-Word format.
- Full papers to be submitted by 10 January 2025, with a word limit of 4000-6000 words.
- Papers must follow the recent APA standard manual.
- Best oral/poster presentations will be awarded.
- Submissions should be emailed to: raashee.foet@gmail.com
- Talks are in process to publish the proceedings/journal with a reputed Publishing house. The same shall be notified as and when we get a confirmation.



Gaurav Sthal



Hanuman Setu



Rumi Darwaza

## The Enlightenment : University of Lucknow

The University of Lucknow, established in 1920, stands as a beacon of academic excellence and cultural heritage. Its illustrious alumni have made significant contributions in diverse fields, from politics and literature to science and entrepreneurship, not just in the motherland but also beyond. The university's commitment to fostering knowledge and innovation continues to inspire generations. It is a teaching, residential and affiliating university, organized into 556 colleges and 17 institutes, with its jurisdiction over colleges in five districts: Lucknow, Raebareli, Hardoi, Sitapur and Lakhimpur Kheri. A rich history rooted in tradition and a forward-looking vision, the University of Lucknow, accredited with an 'A++' grade by NAAC, stays proud to be the first university to have adapted, implemented and imparting education through NEP2020, and remains a symbol of intellectual growth and societal progress which realises the fact that it's - The legacy of light and learning.



Lucknow, an image glorious, a tapestry of grandeur, its monuments speak of emotions and not just history and time, reflecting life and the nuances of life, touching the abstract and the substantial from the joy of the heart and the soul to the delicacies of the palate; DELICIOUS and DIVINE.

Lucknow, cradled by the serene Gomti, which serves as a lifeline to the city symbolising a harmonious blend of nature and urban life. This terrain whispers tales of Nawabs, its streets echo with the poetry and remains covered in the aroma of exquisite cuisine.

Where the air sings the timeless folklore, here HISTORY AND MODERNITY waltz in a delicate embrace crafting a city of eternal charm and soulful elegance.



The Department of Applied Science & Humanities (AS&H) at the University of Lucknow is a leading department of Faculty of Engineering and Technology (FoET), dedicated to furthering human knowledge and contributing to society through education and research in the broad fields of sciences and humanities. A multi-disciplinary approach to education allows students to explore a wide range of subjects and broaden their perspectives. The department provides students and teachers with access to the latest research tools and educational facilities, including a well-stocked central library and state-of-the-art research laboratories.

The goal of Department of AS&H is to create an environment that fosters interdisciplinary collaboration and encourages students and teachers to challenge the status quo and push the boundaries in their fields.



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Hon'ble Vice Chancellor  
University of Lucknow

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Prof. Ashok Kumar Singh  
Dean FoET  
University of Lucknow

**GUEST OF HONOUR**  
Prof. T. N. Singh  
Director, IIT-Patna

**CONVENER**  
Dr. Deepak Gupta  
Department of AS&H  
University of Lucknow

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  - Prof. Binod Mishra, IIT-Roorkee
  - Prof. Rajinder Singh Chandel, Punjabi University, Patiala
  - Prof. B. K. Mohanty, IIM-Lucknow
  - Prof. Rajeev Sijaria, Head-ABVSM&E, JNU
  - Prof. R. P. Singh, University of Lucknow
  - Prof. Anil Mishra, HOD Department of Chemistry, University of Lucknow
  - Prof. Ajit Srivastava, Institute of Physics, Bhubaneswar
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  - Prof. Praveen Sahu, Dean - School of Commerce and Management, Central University of Rajasthan
  - Prof. Pankaj Srivastava, MNNIT, Prayagraj
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  - Dr. Ashish Pandey, National Research Council, Canada
  - Dr. Gopal Krishna Dixit, Grenoble, France
  - Dr. Pravin Kumar Scientist G, IUAC New Delhi
  - Dr. Vijay Kumar Singh, Department of Physics, IIT Jodhpur

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### REGISTRATION FEE

Paper Presentation	
Students (UG/PG/Research)	1000 INR(Indian) 100 USD(Foreign)
Academician/Industry	2000 INR(Indian) 150 USD(Foreign)
Attendee	
Students (UG/PG/Research)	1000 INR(Indian) 100 USD(Foreign)
Academician/Industry	2000 INR(Indian) 150 USD(Foreign)
On the Spot Registration	
Students (UG/PG/Research)	1500 INR (Indian) 110 USD (Foreign)
Academician/Industry	2500 INR (Indian) 160 USD (Foreign)

### For Registration



<https://www.raashee.in/>

← Website

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## IMPORTANT DATES

Event	Date
Abstract Submission (Oral & Poster)	15 January 2025
Abstract Acceptance Notification	15 days from submission
Full Paper Submission	25 January, 2025
Paper Acceptance Notification	10 days from submission
Last date for Registration	25 January 2025
On-the-spot Registration	07 February 2025

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University of Lucknow  
(Accredited A++ by NAAC)



## RAASHEE'25



## International Conference

on  
**Recent Advances in Applied Science & Humanities in Evolution of Engineering**  
07-08 February, 2025



## Organised by-

Department of

Applied Science & Humanities

Faculty of Engineering and Technology

University of Lucknow

Venue:

Wishwakarma Auditorium

Faculty of Engineering and Technology,

Second Campus, University of Lucknow,

Jankipuram Extension, Lucknow, Uttar Pradesh, India [PIN:226031]