



VIDYASAGAR UNIVERSITY



International
Conference

SCIENTIFIC AND TECHNOLOGICAL SYNERGY:

A Cross-Disciplinary Approach to Support
Human Welfare and Environment

Organised by

The Faculty of Science
Vidyasagar University



Midnapore | West Bengal | India



26 & 27
NOVEMBER
2026



<http://www.icsts2026.in/>



ABOUT THE CONFERENCE

The conference aims to create a vibrant platform for researchers, academicians, and industry experts to share knowledge, exchange ideas, and explore innovative solutions. By fostering interdisciplinary synergy among science, technology, health science, and innovation, it advances sustainable development, environmental resilience, and human well-being.

SUB-THEMES



Computational Science & AI



Sustainable Technological Innovation



Biotechnology



Biodiversity



Environment



Health Science



WHO CAN PARTICIPATE!

- Faculties / Scientists
- Corporate Delegates
- Research Scholars / Students
- Foreign Delegates

CONCEPT NOTE

Scientific progress increasingly depends on interdisciplinary integration. This conference highlights the synergy among Computational Science & Artificial Intelligence, Sustainable Technological Innovation, Biotechnology, Environment, Biodiversity, and Health Science to foster transformative research and sustainable solutions. By promoting cross-disciplinary collaboration, it seeks to bridge fundamental science and technological innovation for addressing complex societal and environmental challenges while advancing sustainable development and human well-being.

Science & Technology Expo:

A platform for academic institutions, research organizations, industries, and start-ups to showcase scientific innovations, emerging technologies, research outcomes, prototypes, and products, aimed at inspiring students, nurturing scientific curiosity, and encouraging them to explore emerging areas of science and technology for human welfare and environmental sustainability.

Advisory Committee

Prof. Luca Vannucci, Prague, Czech Republic

Prof. Eva Fischer-Fodor, Cluj-Napoca, Romania

Prof. Ajoy Rana, Illinois University, Chicago, USA

Prof. Lal Mervin Dharmasiri, University of Kelaniya, Sri Lanka.

Prof. Sunil Kumar De, North Eastern Hill University, India

Prof. Dipend Rath Das, Jawaharlal Nehru University

Prof. Ebenezer Bonyah, Akenten, Ghana

Prof. M.T.M. Dewasurendra, University of Peradeniya, Sri Lanka.

Prof. Adrijit Goswami, IIT Kharagpur, India

Prof. Somnath Bhattacharyya, IIT Kharagpur, India

Prof. J. Potts, University of South Carolina, USA

Dr. Devendra Singh, Scientist-F, Botanical Survey of India, India

Prof. Naveen K. Vaidya, San Diego State University, USA

Prof. V. S. Ramachandran, Bharathiar University, Coimbatore, India

Prof. Samir K Bhowmik, University of Dhaka, Bangladesh

Prof. Mohammad Osman Gani, Jahangirnagar University, Bangladesh

Prof. Csaba Vágvölgyi, University of Szeged, Hungary

Prof. TzuChuen Lu, Chaoyang, University of Technology, Taiwan

Prof. Tarun Das, Delhi University, India

Prof. Md. Mahbub Alam, Harbin Institute of Technology (Shenzhen), China

Prof. Jihad Asad, Palestine Technical University, Palestine

Prof. Olivia Florea, Transilvania University of Brasov, Romania

The Organising Committee

Chief Patron

Prof. Dipak Kumar Kar, Hon'ble Vice-Chancellor

Patron(s)

Prof. Arindam Gupta, Dean, Faculty of Arts & Commerce

Prof. Madhu Mangal Pal, Director, IQAC

Prof. Ajay Kumar Misra, Director, R & D Cell

Organizing Chair

Prof. Paresh Chandra Jana, Dean, Faculty of Science

Co-Chair(s)

HOD, Science Faculty

- Prof. Dipak K. Midya, Anthropology
- Prof. Dilip Kumar Maiti, Applied Mathematics
- Prof. Sandip Chattopadhyay, Bio-Medical Laboratory Science & Management
- Prof. Prakash Karmakar, Botany & Forestry
- Dr. Maidul Hossain, Chemistry & Chemical Technology
- Prof. Biswapati Jana, Computer Science
- Prof. Sutanu Dutta, Electronics
- Dr. Manoj Kumar Pati, Fishery Sciences
- Prof. Ramkrishna Maiti, Geography
- Prof. Sujata Maiti Choudhury, Human Physiology
- Prof. Keshab Chandra Mondal, Microbiology
- Prof. Kuntal Chatterjee, Physics
- Dr. Jatisankar Bandyopadhyay, Remote Sensing and GIS
- Dr. Sagar Acharya, Zoology

Convenor: Prof Dilip K. Maiti

Organising Secretaries

Prof. Keshab C. Mondal, Prof. Biswapati Jana & Prof. Kuntal Chatterjee

Treasurer

Prof. Sandip K. Sinha

Jt. Treasurer

Dr. Joydev Maity

Chair(s), Scientific Programme Committee

- **Computational Science & Artificial Intelligence** : Prof. Shyamal K. Mandal, Prof. Biswapati Jana & Prof. Sutanu Dutta
- **Sustainable Technological Innovation** : Prof. Brajagopal Bag & Prof. Swarnendu Sarkar
- **Biotechnology**: Prof. Keshab C. Mondal and Dr. Manoj K. Pati
- **Environment** : Prof. Ramkrishna Maity & Dr. Jatisankar Bandyopadhyay
- **Biodiversity**: Prof. Amal K. Mondal & Prof. Subrata K. De
- **Health Science** : Prof. Sujata Maity Chowdhury, Prof. Sandip Chattopadhyay & Prof. Dipak K Midya

Chair(s), Science & Technology Expo:

Prof. Dipak K. Midya, Prof. Brajagopal Bag, Prof. Biswapati Jana, Dr. Dipanwita K. Dutta, Dr. Surojit Das & Dr. Kishalay Paria

Sub-Committees

Chair(s), Resource Sub-Committee

Prof. Sujata Maity Chowdhury, Prof. Keshab C Mondal, Prof. Sankar K Roy & Prof. Dilip K Maiti

Chair(s), Publications Sub-Committee

Prof. Sumahan Bandyopadhyay & Prof. Debdulal Banerjee

Chair(s), Registration Sub-Committee

Dr. Sagar Acharya & Dr. Ganesh Ghorai

Chair(s), Finance Sub-Committee

Prof. Radha Raman Pal & Dr. Maidul Hossain

Chair(s), Sponsorship Sub-Committee

Prof. Braja Gopal Bag & Prof. Sandip Chattopadhyay, Prof. Biswapati Jana

Chair(s), Travel Sub-Committee

Dr. Biplab Mandal & Dr. Soumyabrata Banerjee

Chair(s), Reception Sub-Committee

Prof. Dipak K. Midya & Dr. Manoj K. Pati

Chair(s), Refreshment Sub-Committee

Prof. Prakash Karmakar & Prof. Surajit Ghosh

Chair(s), Logistics Sub-Committee

Prof. Kuntal Chatterjee & Prof. Sutanu Dutta

Chair(s), Media & Website Sub-Committee

Dr. Partha Choudhuri, Dr. Bachchu Paul & Dr. Arnab Sadhu

Chair(s), Cultural Sub-Committee

Dr. Chhanda Mallick Mukherjee & Dr. Priyanka Halder Mallick

Resource Persons

Keynote Speaker



Prof. Ricardo Silvestre

Vice-Director, Life and Health Sciences Research Institute – ICVS School of Medicine, University of Minho Campus de, Gualtar 4710-057 Braga, **Portugal**
Topic: A One Health Perspective in the Light of Science and Technological Synergy

Plenary Speakers



Prof. Santanu Bhattacharya

Director, IISER, Tirupati, **India**



Prof. Csaba Vágvolgyi

University of Szeged, **Hungary**
Topic: Mucormycosis



Dr. Somenath Dutta

Former Scientist-G and Head, Regional Meteorological Centre (RMC), Kolkata, **India**
Topic: Climate Service for Health



Prof. Lal Mervin Dharmasiri

University of Kelaniya, **Sri Lanka**
Topic: Climate change and environmental stress: some experience



Dr. Srikumar Chattopadhyay

Scientist-G, Centre for Earth Science Studies, **India**
Topic: Regional Approach in Integrating Environmental Management and Human Welfare



Prof. Arnab Sen

Vice-Chancellor, Raiganj University, **India**
Topic: Genomics of Actinobacteria



Prof. Subrata Chattopadhyay

Former Director, Bioscience Group, BARC, Mumbai, **India**
Topic: Cool Societal Solutions by Hot Atoms



Dr. Bhaskar Saha

National Professor, CCRH, Ministry of AYUSH, **India**
Topic: Science & Technology in the interdisciplinary contribution to human health and environment



Prof. Sushil Kumar Dutta

Utkal University, Odisha, **India**
Topic: Why we find so many undescribed amphibians in India?

Prof. Amlan Chakrabarti

University of Calcutta, **India**
Topic: Artificial Intelligence for sustainable Development



Prof. Chakravarthula Manoharachary

Osmania University, **India**
Topic: Microbial and Technological innovations: Cross disciplinary pathways to Human Welfare and Environmental Sustainability

Prof. Samit Kumar Ray

IIT Kharagpur, Ex Director, S.N. Bose National Centre for Basic Sciences, **India**
Topic: Emerging Materials for Photonic and Energy Harvesting Devices



Invited Speakers



Prof. Tzu Chuen Lu

Chaoyang University of Technology, **Taiwan**
Topic: Information management in the age of AI

Prof. Mehakpreet Singh

University of Limerick, **Ireland**
Topic: Mechanistic modelling of particulate processes



Prof. Satyabrata Jit

IIT Benaras, **India**
Topic: MOS Transistor Technology for computational systems



Prof. C. V. Yalamaggad

Centre for Nano and Soft Matter Sciences, Bengaluru, **India**
Topic: Quantum dot technology in display industry for energy sustainability Technical Sessi

Dr. Mukesh Ranjan

Scientific Officer-G,
FCIPT, Institute for Plasma Research, Gandhinagar, **India**
Topic: Plasma Surface Engineering for Health and Environment



Prof. Rajib Maity

IIT Kharagpur, **India**
Topic: Population exposure to compound climate extremes

Prof. Lakshminarayan Satpati

University of Calcutta, **India**
Topic: Climate Conscious Development under Extreme Weather Trends in India



Prof. Sheikh Julfikar Hossain

Khulna University, **Bangladesh**
Topic: Biodegradation by soil bacteria

Dr. Gouranga Biswas

Principal Scientist, ICAR-Central Institute of Fisheries Education,
Kolkata Centre, **India**
Topic: IMTA: Next-Gen, Climate-Smart Aquaculture for a Sustainable Future



Prof. Pradipta Mahapatra

Ravenshaw University, **India**
Topic: Photosynthetic pigment fluorescence for analysis of biotic abiotic stress in plants

Dr. Atanu Raha

Retired Indian Forest Service (IFS) Officer,
Govt. of West Bengal, **India**
Topic: Mitigating the impact of Climate Change on a World Heritage site - the participatory way



Prof. Kewal Krishan

Panjab University, Chandigarh, **India**
Topic: Role of Anthropological knowledge in forensic investigation

Dr. Jayanta Bhattacharya

Translational Health and Technology Institute, Faridabad, **India**
Topic: Medical countermeasures against priority pathogens associated with epidemics and pandemics



Prof. Nihar Ranjan Jana

IIT Kharagpur, **India**
Topic: Understanding Mental Illness

Valedictory Speaker



His Holiness, Hon'ble Ven Dr. Thirasattho Thero

Spiritual Master, IEP Peace Ambassador, **Australia**
Topic: Utilizing Buddhist Wisdom for Human Welfare and Environmental Sustainability in the Age of Science and Technology

Important Deadlines

Abstract Submission
30th September, 2026

Acceptance Notification
21st October, 2026

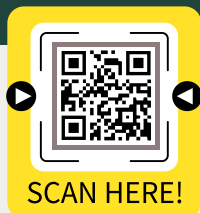
Early Bird Registration
30th October, 2026

Registration Closes
15th November, 2026

Registration Details

REGISTER NOW

CATEGORY	EARLY BIRD FEE (upto 30 Oct, 2026)	LATE BIRD FEE (later 30 Oct, 2026)
 FACULTIES/ SCIENTISTS	₹ 2,000/-	₹ 2,500/-
 CORPORATE DELEGATES	₹ 3,000/-	₹ 3,500/-
 RESEARCH SCHOLARS/ STUDENTS	₹ 1,200/-	₹ 1,700/-
 FOREIGN DELEGATES	\$ 50	\$ 60



Payment details

UCO Bank
Branch: Vidyasagar University
A/c Name: SCIENTIFIC &
TECHNOLOGICAL SYNERGY 2026
STS 2026
A/c No. : 1748011011451
IFSC : UCBA0001748

For Updates & Queries



<http://www.icsts2026.in/>



sts.vu2026@mail.vidyasagar.ac.in

How to Reach Vidyasagar University

-  Netaji Subhas Chandra Bose International Airport, Kolkata (140 km)
-  Kharagpur Rail Station (13 km)
-  Midnapore Rail Station (2 km)
-  Medinipur Central Bus Stand (2 km)



Places to Visit

One Day Tour

Pathra - The Village of Temples



Grand Canyon of Bengal - Gangani



Kurumbera Fort

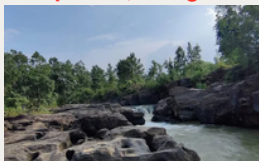


Mogalmari



One Night Stay Tour

Belpahari, Jhargram



Ajodhya Hill



Bishnupur



Susunia Hill



Mandarmani



Digha



Two Night Stay Tour

Puri



Garpanchakot



DISTANCE GUIDE (Approx.)

- | | | |
|----|---|----------|
| 1 | Ajodhya Hills | ≈ 155 km |
| 2 | Bishnupur | ≈ 120 km |
| 3 | Mukutmanipur | ≈ 145 km |
| 4 | Susunia Hill | ≈ 110 km |
| 5 | Digha | ≈ 135 km |
| 6 | Ghagra Waterfall | ≈ 65 km |
| 7 | Kankrajhore | ≈ 95 km |
| 8 | Khandarini Lake | ≈ 80 km |
| 9 | Jhargram Rajbari | ≈ 42 km |
| 10 | Hatibari Forest | ≈ 75 km |
| 11 | Pathra | ≈ 12 km |
| 12 | Gopegarh Eco Park | ≈ 5 km |
| 13 | Joyrambati | ≈ 85 km |
| 14 | Kamarpukur | ≈ 120 km |
| 15 | Birsingha (Birthplace of
Isvar Chandra Vidyasagar) | ≈ 25 km |

For more details visit

www.wbtourism.gov.in

