

7th International Conference on Interdisciplinary Research for Sustainable Development (ICIRSD-2025)

Dated : 21-22, November, 2025

Main Tracks and Sub-themes

Track 1: ICT, Engineering, and Architecture (ICTEA).

- Artificial Intelligence, Machine Learning, and Data Science for Real-World Applications
- Emerging Technologies in ICT and Engineering for Industry and Society
- ICT and IoT for Efficient Resource Management
- Smart Technologies for Sustainable Infrastructure
- Cybersecurity, Blockchain, and Data Privacy for Sustainable Digital Ecosystems
- Advanced Computer Applications and Software Innovations for Sustainable Solutions
- Electronics and Communication Engineering for Green and Smart Systems
- Software Engineering, Cloud, and Edge Computing for Sustainable Solutions
- Sustainable Civil and Structural Engineering Practices
- Architectural Design and Urban Planning for Sustainable Development
- Renewable Energy Systems and Power Engineering for a Sustainable Future
- Sustainable Mechanical Systems and Advanced Manufacturing Technologies

Track 2: Basic, Bio, Forensic, MLT, and Agricultural Sciences (BBFMAS)

Basic Sciences

- Emerging frontiers in Physics, Chemistry, and Mathematics
- Green and sustainable chemistry for a cleaner future
- Computational modeling, AI, and data-driven science
- Materials science and nanotechnology in health and environment
- Quantum and photonic technologies

Biological Sciences

- Advances in molecular and cellular biology
- Stem cells, regenerative medicine, and tissue engineering
- Multi-omics and Nanobiotechnology, and metabolomics in human health
- Microbiome research and its translational potential
- Neurobiology and neurodegenerative disorders
- Climate change biology and biodiversity conservation

Forensic Sciences

- Innovations in forensic DNA analysis and biotechnology
- Digital forensics and cybercrime investigations
- Forensic toxicology and analytical advancements
- Forensic psychology and behavioral sciences
- Crime scene investigation and evidence management
- Legal and ethical perspectives in forensic sciences

Agricultural Sciences

- Sustainable Agriculture – Climate-smart, organic, and agro-ecological farming for resilient rural systems.
- Crop Improvement and Biotechnology – Innovations in genomics, breeding, and biotech-driven crop enhancement.
- Digital and Precision Agriculture – IoT and AI applications for smart crop production and protection.
- Resource Management – Sustainable soil, water, and plant–microbe interaction management.
- Post-Harvest and Value Addition – Advances in food security, processing, and value-added technologies.
- Integrated Farming Systems – Synergizing agriculture, agroforestry, and sustainable land use.
- Interdisciplinary approaches to One Health (human–animal–environment)
- Nanotechnology applications in bio, forensic, and agri-sciences
- Ethical, legal, and societal implications of emerging technologies
- Translational research and industry–academia partnerships
- Sustainability and innovation in biosciences

Track 2: Physiotherapy, Radiology, OTAT (Operation Theatre & Anaesthesia Technology), Nursing, Dialysis, Pharmaceutical Sciences, and Allied Health Sciences.

Physiotherapy

- Innovations in neurorehabilitation and musculoskeletal physiotherapy
- Role of physiotherapy in lifestyle diseases (diabetes, obesity, cardiovascular care)
- Sports physiotherapy and performance optimization
- Tele-rehabilitation and digital physiotherapy platforms

Radiology

- AI, deep learning, and big data applications in medical imaging
- Advances in interventional radiology and minimally invasive techniques
- Radiation safety and ethical practices in diagnostic imaging
- Role of imaging in early cancer and neurological disease detection

OTAT (Operation Theatre & Anaesthesia Technology)

- Enhancing surgical safety: innovations in OT protocols and checklists
- Advances in anaesthesia monitoring and patient safety
- Infection prevention and sterile techniques in OT
- Simulation-based training for OT and anaesthesia technology professionals

Medical Laboratory Technology (MLT)

- Advances in diagnostic technologies and point-of-care testing
- Automation, robotics, and AI in medical diagnostics
- Molecular diagnostics for infectious and genetic diseases
- Emerging biomarkers and personalized medicine
- Laboratory quality control, accreditation, and biosafety
- Pandemic preparedness and rapid diagnostic strategies

Nursing

- Nursing leadership in patient-centered and holistic care
- Advanced nursing practices in critical care and emergency management
- Digital health, tele-nursing, and technology-enhanced patient monitoring
- Evidence-based nursing research for improved patient outcomes

Dialysis Technology

- Innovations in haemodialysis and peritoneal dialysis
- Patient-centric approaches to improve quality of life in chronic kidney disease
- Advances in portable and wearable dialysis devices
- Ethical and economic challenges in renal replacement therapy

Pharmaceutical Sciences

- Nanomedicine, targeted drug delivery, and personalized therapeutics
- Pharmacovigilance, drug safety, and regulatory sciences
- Green and sustainable pharmaceutical manufacturing practices
- Translational pharmaceutical research: bench to bedside

Allied Health Sciences (General / Interdisciplinary)

- Multidisciplinary approaches to chronic and lifestyle diseases
- Simulation-based learning and skill development across allied health professions
- Innovations in diagnostics, laboratory sciences, and biomedical devices
- Role of allied health sciences in community and preventive healthcare

Track 3: Management, Hospitality, Commerce, and Economics

Sustainable Business Management and Strategy

- Implementing closed-loop systems, waste reduction, and sustainable supply chains.
- Fostering sustainable corporate cultures and employee well-being.
- Integrating ESG criteria into core business strategy.
- Ethical leadership and change management for climate consciousness.
- SME challenges and opportunities in sustainability and achieving Net-Zero.

Sustainable Finance and Commerce

- Role of green finance (bonds, equity, banking) in funding the SDGs.
- Using technology (AI, blockchain) to track sustainable investments.
- Sustainable e-tailing, logistics, ethical sourcing, and green marketing.
- Economic mechanisms for internalizing environmental costs.

Sustainable Hospitality and Tourism

- Developing restorative tourism for local environments and cultures.
- Using IoT and data analytics for resource conservation in hotels.
- Reducing food waste and promoting local, equitable food service.
- Balancing economic development with cultural and community protection.

Sustainable economic development

- Sustainable economic development and Agriculture.
- Role of environmental management in sustainable development.
- Challenges of climate change and sustainable development.
- Economic sustainability through positive policy frame work.
- Sustainable development through Innovations and Infrastructure.
- Sustainable development and AI applications.
- Economic sustainability and socio-economic considerations.
- Economic Growth and social inclusion.
- Economic development and Environmental Protection.
- United Nations Sustainable Development Goals.