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

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
- Genomics, proteomics, and metabolomics in human health
- Microbiome research and its translational potential
- Stem cells, regenerative medicine, and tissue engineering
- 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

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

Agricultural Sciences

- Sustainable and Climate-Smart Agriculture: Sustainable agriculture, climate-smart farming, agro-ecology, organic farming, rural development, and agricultural policies.
- Crop Improvement and Biotechnology: Includes: Plant genomics, molecular breeding, conventional breeding, crop physiology and biochemistry, and biotechnology in pest/disease management.
- Digital and Precision Agriculture: Precision agriculture, IoT, and AI in crop management (crop production and protection.
- Resource Management: Soil health, water management/hydrology, and plant-microbe interactions.
- Food Systems, Post-Harvest & Value Addition: Food security, safety, nutrition science, post-harvest technologies, food processing, and value addition.
- Integrated Farming and Agroforestry: Integrated Farming, Forestry/Sustainable Forest Management covering the forest agriculture and forestry aspects.

Cross-Cutting Themes

- 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 (PRONDPSAHS)

Sub-themes / Sub-topics

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

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 (MHCE)

This track should focus on the role of business, finance, and services in achieving global sustainability goals (SDGs).

Sustainable Business Management and Strategy

- Circular Economy Models and Business Transformation: Strategies for implementing closed**-loop systems, waste reduction, and sustainable supply chain management.**
- Developing sustainable organizational cultures, green skills, and employee well-being for long-term corporate sustainability.
- Integrating Environmental, Social, and Governance (ESG) criteria into core business strategy and enhancing transparent reporting.
- Ethical leadership, stakeholder management, and change management in a climate-conscious world.
- Challenges and opportunities for SMEs in adopting sustainable practices and achieving Net-Zero.

Sustainable Finance and Commerce

- The role of sovereign bonds, green equity, impact investing, and sustainable banking in funding the SDGs.
- Leveraging blockchain, AI, and digital payment systems to promote equitable access to finance and tracking of sustainable investments.
- E-tailing, sustainable logistics, ethical sourcing, and the marketing of eco-friendly products**.**

- Economic mechanisms and policies for internalizing environmental costs and fostering sustainable market dynamics.

Sustainable Hospitality and Tourism

- Developing tourism that restores, rather than just sustains, local environments and cultures.
- Utilizing IoT and data analytics for energy/water conservation and waste management in hotels and resorts.
- Reducing food waste, promoting local/organic supply chains, and addressing social equity in the food service industry.
- Balancing economic development with the protection of cultural sites and local community benefits.

Track 4: Social Sciences, Education, Law, and Languages (SELL)

- This track should focus on the legal, social, ethical, and communicative foundations necessary to support the transition to a sustainable future.
- Media, Communication and Digital storytelling for awareness
- Literacy as a minor economic change
- International contribution in social transformation and Development

Sustainable Education and Pedagogy

- Education for Sustainable Development: Integrating SDGs into curricula and institutional practices
- Digital Literacy and Ethical AI: Bridging the digital divide with responsible tech in education
- Interdisciplinary Pedagogy: Merging social sciences with STEM for real-world problem solving
- Inclusive Education: Overcoming socio-economic and gender barriers in climate-vulnerable contexts

Law and Governance for Sustainability

- Climate and Environmental Law: Global, regional, and local frameworks for ecological justice
- Data Governance and Digital Rights: Privacy, ethical AI, and accountability in the digital age
- Resource Justice: Legal responses to land, water, and resource distribution conflicts
- Environmental Corporate Responsibility: Enforcing accountability through CSR and ESG mechanisms
- Regulatory frameworks, international agreements, and litigation related to climate change, pollution, and biodiversity protection.
- Legal and ethical implications of algorithmic decision-making, privacy in the digital age, and the regulation of emerging technologies.
- Examining property rights, land tenure, water rights, and the legal challenges of equitable resource distribution**.**

- Legal mechanisms to enforce CSR/ESG commitments and holding corporations accountable for environmental harm.

Languages, Communication, and Social Impact

- Eco linguistics: Language, culture, and narratives shaping climate consciousness
- Crisis Communication: Building resilience through public health and climate emergency messaging
- Media Responsibility: Journalism, misinformation, and ethical storytelling for sustainability
- Indigenous Knowledge and Languages: Preserving cultural heritage for biodiversity and SDG-centered development

Sociology and Political Economy of Sustainability

- Climate Movements and Civic Action: Collective mobilization for SDG-driven change
- Gender and Equity: Addressing vulnerabilities of marginalized groups in climate adaptation
- Sustainable Lifestyles: Shifts in consumption, policy nudges, and social norms for low-carbon futures
- Geopolitics of Energy Transition: Resource conflicts, renewable pathways, and global cooperation

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