









## **8TH INTERNATIONAL CONFERENCE ON**

Applied Sciences, Engineering, Technology and Management (ICASETM)

21st & 22nd August 2025 | Jakarta, Indonesia



Organized by

Baba Farid Group of Institutions, India

Vignana Bharathi Institute of Technology, India

Universitas PGRI Sumatera Barat, Indonesia

(Indonesia Society)



Applied Sciences, Engineering, Technology and Management



21st & 22nd August 2025 | Jakarta, Indonesia

#### **Guest of Honors**



Mr. Siddth Kumar Chhajer
Founder & Managing
Director,
IFERP, Technoarete Group,
India.



Dr. Jyoti Bansal
Principal, Baba Farid College of
Engineering & Technology
Bathinda, Punjab.











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### **Keynote Speakers**



Dr. Tek-Yew Lew
Associate Professor,
Department of Management,
Curtin University,
Malaysia.











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### **Keynote Speakers**



Prof. Ir. Ts. Dr. Sivarao Subramonian
Centre of Smart System and Innovative
Design,
Faculty of Industrial and Manufacturing
Technology and Engineering,
Universiti Teknikal Malaysia Melaka,
Malaysia.



Assoc Prof. Ts Gs Ir Dr Kuok King Kuok

Faculty of Engineering, Computing and Science Swinburne University of Technology Sarawak Campus Malaysia.



Prof. Dr. T. Somanathan
Department of Chemistry,
School of Basic Sciences,
Vels Institute of Science, Technology
and Advanced Studies (VISTAS),
Chennai, India.











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## **Keynote Speakers**



Prof. Dr. Yudi Samyudia Rector, Universitas Pembangunan Jaya Jakarta, Indonesia.



Dr. Atul Kant Piyoosh
Head of the Department of Civil
Engineering
Baba Farid College of
Engineering & Technology
Baba Farid Group of Institutions
Punjab, India.



Dr. Manpreet Singh
Head of the Department
Baba Farid College of Engineering &
Technology
Baba Farid Group of Institutions
Bathinda, Punjab, India.











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## **Session Speakers**



Prof. Dr Karuppasamy
Periyasamy
Department of Electronics &
Communication Engineering
Adithya Institute of Technology
India.



Maulana.
Professor of Marketing
BINUS University
Jakarta, Indonesia.



Dr. Ridha Sefina Samosir, S.
Si., M. Kom
Associate Professor
Department of Computer
Science
Universitas Kalbis
Jakarta, Indonesia.



Prof. Dr. Ahmad Adeel
Department of Management
and Organizational Behavior
The University of Chenab
Gujrat, Pakistan.









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## **Session Speakers**



Dr. Ir. H. Pawenary, S.T., MT., M.P.M., IPU.,
ASEAN Eng., ACPE
Associate Professor, Universitas Esa Unggul
President Director, Pusdiklat Listrik
Indonesia
Director, PT. Simenteknindo
Jakarta, Indonesia.



Prof. Ts. Dr. Norita Md
Norwawi

Department of Computer
Science
Universiti Sains Islam
Malaysia
Negri Sembilan, Malaysia.



Sutiarso, M.Eng., IPU, ASEAN
Eng., APEC Eng.
Department of Agricultural and
Biosystems Engineering
Universitas Gadjah Mada.











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### **Plenary Speaker**



Dr. Jimmy Gupta
Head of the Department
Baba Farid College of Engineering & Technology
Baba Farid Group of Institutions
Bathinda, Punjab,
India.











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#### **Session Chairs**



Ms. Praneetha Kotla
Lead Robotics Process
Automation Developer
ERP Smartlabs.



Dr. K. Kalaivani,
Head of Department,
Department of Computer Science & Engineering,
Vignana Bharathi Institute of
Technology,
India.



**Dr. Nagendra,**Associate Professor
Manipal Law School,
India.



Dr. Zahera Mega
Utama, SE. MM
Magister Lecturer of
Management
Prof.Dr. Moestopo
(Beragama) University











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## **Registration Desk**



Anindita Kusuma Wicitra,
Lspr Institute of
Communication and
Business,
Indonesia.



Melly Sheilla Fadillah, SMA Muhammadiyah 4 Jakarta, Indonesia.



Pandu Priambudi Sinatria, Vocational High School 69 Jakarta, Indonesia.



Khoirunnisa Vocational High School, Indonesia.











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#### **Moderator**



Anjeli Jeconera Monty, Dewi Sartika High School, Indonesia.











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## Program Schedule Day 1 - In-Person -21st August, 2025

09:00 AM - 09:30 AM	Registration Desk
09:30 AM - 09:35 AM	Introduction by Moderator
09:35 AM - 09:55 AM	Speech By Keynote Speaker Prof. Dr. Yudi Samyudia
09:55 AM - 10:15 AM	Speech By Keynote Speaker Prof. apt. Diana Laila Ramatillah, M.Farm, Ph.D
10:15 AM - 10:50 AM	Inaugural Ceremony
10:50 AM - 11:05 AM	Networking Break
11:05 AM - 11:25 AM	Speech By Plenary Speaker Dr. Sharadendu Bali, MBBS, MS, PhD
11:25 AM - 11:45 AM	Speech By Session Speaker Dr. Ridha Sefina Samosir
11:45 AM - 12:05 PM	Speech By Session Speaker Dr. Ir. H. Pawenary
12:05 PM - 01:00 PM	Lunch Break
01:00 PM - 03:40 PM	Technical Session 1A
03:40 PM - 03:55 PM	Networking Break
03:55 PM - 04:00 PM	Valedictory Function
04:00 PM - 04:05 PM	Vote of Thanks











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	Inaugural Ceremony
10:15 AM - 10:25 AM	Speech by Guest of Honour Mr. A. Siddth Kumar Chhajer
10:25 AM - 10:28 AM	Inaugural Speech Dr. Ir. H. Pawenary
10:28 AM - 10:31 AM	Inaugural Speech Dr Sharadendu Bali, MBBS, MS, PhD
10:31 AM - 10:34 AM	Inaugural Speech Prof. Dr. Yudi Samyudia
10:34 AM - 10:37 AM	Inaugural Speech Prof. apt. Diana Laila Ramatillah, M.Farm, Ph.D
10:37 AM - 10:40 AM	Inaugural Speech Dr. Ridha Sefina Samosir
10:40 AM - 10:45 AM	Proceeding Booking Release
10:45 AM - 10:50 AM	Memento Distribution











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## Technical Session - 1A In-Person 21st August, 2025













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#### Day 1 Technical Session - 1A, In-Person - 21st August, 2025

01:00 PM - 01:08 PM	Towards a National Biofouling Management Framework: Assessing Malaysia's Status and Strategy to Mitigate the Introduction of Invasive Aquatic Species Presentation by Syuhaida Ismail
01:08 PM - 01:16 PM	The Power of Support and Psychological Safety in Enhancing Team Adaptability Among Law Enforcement Teams  Presentation by Azlyn Ahmad Zawawi
01:16 PM - 01:24 PM	Energy Transition in the Universities  Presentation by Siphesihle Brian Nkosi
01:24 PM - 01:32 PM	Comparison of Analytic Hierarchy Process and Fuzzy Analytic Hierarchy Process: Allocation of Photovoltaic Electric Vehicle Charging Stations in Malaysia Presentation by R. N. Farah













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#### Day 1 Technical Session - 1A, In-Person - 21st August, 2025

01:32 PM - 01:40 PM	Techniques of CO2 to CH4 and Bioaugmentation with Rumen  Presentation by Teddy Eka Putra
01:40 PM - 01:48 PM	SPBE Assessment Model: Leveraging Structural Equation Modelling (SEM) as the Primary Analysis within the Government Domain Presentation by R. Guntur Haryanto
01:48 PM - 01:56 PM	Socialization of Malaria as Endemic in Iran

New Concept for Oil and Gas Field Development with High CO2 Gas Content Using Bioconversion

01:56 PM – 02:04 PM From Individuals to Teams: An Integrative Review on Adaptability and Resilience in a Tactical Environment Presentation by Nur Zafifa Kamarunzaman

Time zone in Jakarta, Indonesia (GMT+7)









Presentation by Dr Joevi Roedyati





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#### Day 1 Technical Session – 1B, In-Person – 21st August, 2025

02:04 PM - 02:12 PM	The Role of Digital Technologies in Enhancing Psychomotor Learning Outcomes in Vocational Education Presentation by Muhammad Shahrir Mohamed Shafieek
02:12 PM - 02:20 PM	Work Engagement Mediates the Relationship between Psychological Well-Being and Innovative Behavior in the JD-R Model for Sustainable Education Presentation by Dr Nor Fauziana Ibrahim
02:20 PM - 02:28 PM	THE EFFECT OF CIRCULAR ECONOMY INNOVATION AND ENVIRONMENTAL SUSTAINABLE DEVELOPMENT ON THE ECONOMIC GROWTH: A PANEL DATA ANALYSIS ON ASEAN COUNTRIES  Presentation by Andi Nurhikmah daeng Cora SPd MM PhD
02:28 PM - 02:36 PM	SOLAR QUEST: INNOVATE TO CAPTURE MORE SUNLIGHT AND BOOST ENERGY  Presentation by Dr Kalaivani K











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#### **Conference Venue**

**Venue : Aston Priority Simatupang Hotel & Conference Center** 

Address: 5Jl. Let. Jend. T.B. Simatupang Kav. 9 Kebagusan

South Jakarta 12520 - Indonesia

Google Map: <a href="https://maps.app.goo.gl/5vNJn8BxMMQzi3nq6">https://maps.app.goo.gl/5vNJn8BxMMQzi3nq6</a>











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## Program Schedule Day 2-Virtual 22<sup>nd</sup> August, 2025

10:00 AM - 10:10 AM	Introduction by Moderator
10:10 AM - 10:20 AM	Guest of Honour Dr. Jyoti Bansal
10:20 AM - 10:35 AM	Speech By Keynote Speaker Prof. Dr. T. Somanathan
10:35 AM - 10:50 AM	Speech By Keynote Speaker Assoc Prof. Ts Gs Ir Dr Kuok King Kuok
10:50 AM - 11:05 AM	Speech By Keynote Speaker Prof. Ir. Ts. Dr. Sivarao Subramonian
11:05 AM - 11:20 AM	Speech By Keynote Speaker Dr. Atul Kant Piyoosh
11:20 AM - 11:35 AM	Speech By Keynote Speaker Dr. Manpreet Singh
11:35 AM - 11:40 AM	Presentation by IFERP Representative: Ms. Monisha Ramesh
11:40 AM - 11:45 AM	Presentation by IFERP Senior Team Lead: Mr. Karthikeyan
11:45 AM - 11:55 AM	Networking Break











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## Program Schedule Day 2-Virtual 22<sup>nd</sup> August, 2025

11:55 AM - 12:10 PM	Plenary Speaker Dr. Jimmy Gupta	
12:10 PM - 12:25 PM	Speech By Session Speaker Prof. Dr. Ir. Lilik	Sutiarso
12:25 PM - 12:40 PM	Speech By Session Speaker Prof. Ts. Dr. Nori	ta Md Norwawi
12:40 PM - 12:55 PM	Speech By Session Speaker Prof. Dr. Amalia	E. Maulana
12:55 PM - 01:10 PM	Speech By Session Speaker Prof. Dr. Ahmad	Adeel
01:10 PM - 01:25 PM	Speech By Session Speaker Prof. Dr Karuppa	samy Periyasamy
01:25 PM - 04:05 PM	Technical Session 1A	Technical Session 2A
04:05 PM - 04:15 PM	Networking Break	
04:15 PM - 06:15 PM	Technical Session 1B	Technical Session 2B
06:15 PM - 06:20 PM	Valedictory Function	
06:20 PM - 06:25 PM	Vote of Thanks	











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# Technical Session - 1A Virtual 22nd August, 2025











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### Day 2 Technical Session - 1A, Virtual - 22<sup>nd</sup> August, 2025

01:25 PM - 01:33 PM	Forecasting Semiconductor Raw Material Availability for Timely Production and Delivery Optimization Presentation by Kevin Darmawan
01:33 PM - 01:41 PM	Evaluation of Circular Economy Intervention for Food Loss & Waste in Developing Countries Presentation by Riajeng Rizqi Amalia
01:41 PM - 01:49 PM	Reviving Indian Knowledge Systems: A Literature Review on Integration Strategies within Contemporary Education Frameworks  Presentation by Dr Sarita Michael Samson
01:49 PM - 01:57 PM	Correlation Between E-Word of Mouth and Fear of Missing Out Towards Fast Producing Beauty Products Presentation by Maria Vanessa Widyaningrum
01:57 PM - 02:05 PM	Optimizing Multichannel Book Distribution Efficiency through Machine Learning: Demand Forecasting and Centralized Warehousing Strategy at PT Mizan Media Utama Presentation by Ato Kusnandar













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#### Day 2 Technical Session – 1A, Virtual – 22<sup>nd</sup> August, 2025

02:05 PM - 02:13 PM	Enhancing Emotional Understanding in Visually Impaired Children Through Multimodal Analysis Presentation by kavita choudhary
02:13 PM - 02:21 PM	Application of machine learning algorithms in the methodology of mathematics teaching Presentation by Gasimov Emil Emin
02:21 PM - 02:29 PM	Optimization of Operational System within Industry 4.0 in The Automotive Sector Presentation by HASSNA BOUHAMID
02:29 PM - 02:37 PM	A Survey and Analysis of Few SNP Identification Tools  Presentation by Neelofar Sohi
02:37 PM - 02:45 PM	Corporate Accountability for Workplace Fatalities: Why India Needs a Law on Corporate Manslaughter Presentation by Dr Nazia Akhtar











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#### Day 2 Technical Session – 1A, Virtual – 22<sup>nd</sup> August, 2025

02:45 PM - 02:53 PM	The Future of E-Learning: Autonomous Personalized Educational Content Generation Powered by Agents and Generative AI  Presentation by Gunaputra Wardhana
02:53 PM - 03:01 PM	Needs Analysis of Mental Skills (MSKILL) Module Development in Physical and Health Education Subject for Gifted and Talented Students in Malaysia  Presentation by Azrina Md Azhari
03:01 PM - 03:09 PM	Transforming Global Food Systems through the Integration of Ethical Principles, Sustainability Metrics, and Consumer Trust within Supply Chain Frameworks  Presentation by Fatemehsadat mirmohammadmakki
03:09 PM - 03:17 PM	REAL TIME SENTIMENT ANALYSIS: A MACHINE LEARNING BASED APPROACH TO UNRAVEL CONVERSATIONAL DYNAMICS  Presentation by Patson Gilbert D'Almeida
03:17 PM - 03:25 PM	Exploring Common Challenges and Coping Strategies in Project Proposal Preparation Among Undergraduate Students: A Qualitative Study Presentation by NOR SYAMALIAH NGAH













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#### Day 2 Technical Session – 1A, Virtual – 22<sup>nd</sup> August, 2025

03:25 PM - 03:33 PM	Advancing Project Management Education Through a Tailored Module at UiTM  Presentation by SITI NUR FATHANAH BINTI ABD HAMID
03:33 PM - 03:41 PM	Digital Flashcard Mobile App  Presentation by Arunasanti Dwi Maya
03:41 PM - 03:49 PM	Hybrid Deep Learning and Rule-based Approach for Real-time Vulnerability Detection in Ethereum Smart Contracts  Presentation by SHRUTI MANOJ CHAVAN
03:49 PM - 03:57 PM	Lignocellulosic crop Residues: A possible review on sustainable feedstock for a range of value added products  Presentation by Shubham Gosavi
03:57 PM - 04:05 PM	NutriScan AI: A GPT-Powered Clinical Tool for Real-Time Food Label Risk Assessment and Personalized Multilingual Nutrition Guidance Presentation by Saifullah M











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## Technical Session - 2A Virtual 22nd August, 2025













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#### Day 2 Technical Session – 2A, Virtual – 22<sup>nd</sup> August, 2025

01:25 PM - 01:33 PM	An Overview of Neuromorphic Computing and Applications  Presentation by MEGHA.H.R
01:33 PM - 01:41 PM	A Comprehensive Review of Biomass Development Targets in the Philippine Energy Plan (PEP) Presentation by Chris Anthony Bagaoisan Javier
01:41 PM - 01:49 PM	Integrating Circular Economy Principles and Smart Technologies into Next-Generation Co- Working Spaces for Sustainable Urban Resilience Presentation by Mohadesehsadat Mir Mohammadmakki
01:49 PM – 01:57 PM	Gen-AI for Knowledge Management: Automated Knowledge Base Creation and Context-Aware Q&A Systems  Presentation by Monika Malik
01:57 PM - 02:05 PM	Assessment of heavy metals contamination in industrial wastewater samples Presentation by Gauthami PG













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#### Day 2 Technical Session – 2A, Virtual – 22<sup>nd</sup> August, 2025

02:05 PM - 02:13 PM	AI Powered Leikocyte Classification A Machine Learning Approach to Blood Diagnostics Presentation by Janelli M Mendez DIT
02:13 PM – 02:21 PM	Parents' Meaning of Comprehensive Sexuality Education among Early Childhood Presentation by Debri Pristinella
02:21 PM – 02:29 PM	Key Drivers of Centralized Procurement Models in the Indonesian Construction Sector: A Comprehensive Case Analysis of PT Wika Gedung Presentation by Yayuk Dwi I
02:29 PM - 02:37 PM	A Comprehensive Neural Meta-Feature Framework Automated Model Selection Presentation by Agam Kalra
02:37 PM - 02:45 PM	Low Light Image Enhancement Using Retinex-Based Framework with Adaptive Gamma correction and Poisson distribution  Presentation by Aditya Khandelwal











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#### Day 2 Technical Session – 2A, Virtual – 22<sup>nd</sup> August, 2025

02:45 PM - 02:53 PM	Understanding the Relationship Between Halal Food Choices and Religious Commitment Among Muslim Students in Malaysian Public Universities Presentation by Redzuan Bin Abdul Rahman
02:53 PM - 03:01 PM	Hierarchical Classroom Dynamics in Thailand: Ajarn and Kreng Jai Presentation by Ulrike Guelich
03:01 PM <b>-</b> 03:09 PM	Investigating SMEs' Intention to Participate in Public Procurement in Tanzania: A Theory of Planned Behavior (TPB) Perspective on the Moderating Influence of Perceived Behavioural Control Presentation by Isaya Emmanuel Machaine
03:09 PM - 03:17 PM	A Comparative Analysis of Automated Methods and Future Research Directions in AI enabled Bone age estimation  Presentation by Rumana Anjum
03:17 PM - 03:25 PM	Analysis of AI-Driven Test Case Generation for Cybersecurity attack cases.  Presentation by Roshni Kanth













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#### Day 2 Technical Session – 1B, Virtual – 22<sup>nd</sup> August, 2025

04:15 PM - 04:23 PM	AI-Driven Threat Modelling for Vulnerable inputs  Presentation by Dr Madhu B K
04:23 PM - 04:31 PM	Feathers in Pixels Exploring YOLO Algorithms for Avian Detection Presentation by Priyesh Gawali
04:31 PM - 04:39 PM	Retraining of women in the Czech Republic: Comprehensive analysis and challenges in the changing labor market  Presentation by Andrea Karas
04:39 PM - 04:47 PM	Mind the Gap: Assessing Knowledge, Attitudes, and Practices on Water Sustainability in Babag, Cebu City Presentation by Nancy G Largado
04:47 PM - 04:55 PM	Exploring Primigravida Women's Awareness, Perception, And Practice With Pelvic Floor Muscle Exercises During Pregnancy: A Cross-Sectional Study Presentation by POONGODI











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# Technical Session – 1B Virtual 22<sup>nd</sup> August, 2025















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#### Day 2 Technical Session – 1B, Virtual – 22<sup>nd</sup> August, 2025

04:15 PM - 04:23 PM	Strategic Higher Education Management for Career Sustainability: A Quantitative Study on Student-Athletes' Career Readiness in Henan Province Universities  Presentation by Tian Yan
04:23 PM - 04:31 PM	Driving Sustainable Teaching Performance: A Quantitative Analysis of Management Factors Influencing Training Effectiveness Among Vocational College Teachers in Jiangsu Province Presentation by Xie Pie
04:31 PM - 04:39 PM	The Relationship Between Perceived Parenting Styles and Emotion Regulation Among Young Adults Presentation by Mohaddesa fathema
04:39 PM - 04:47 PM	Bridging Policy and Practice: A Quantitative Analysis of Sustainable Sports Participation and Institutional Implementation in Higher Education in Sichuan, China Presentation by Guo Yang
04:47 PM – 04:55 PM	Winter Air Quality Challenges in Urban Cold Climates: Policy Benchmarking and Implementation Insights for CAMCA Presentation by Oyuntugs Batbaatar













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#### Day 2 Technical Session – 1B, Virtual – 22<sup>nd</sup> August, 2025

04:55 PM - 05:03 PM	AI enabled innovative approach to integrate testing for Tensor Flow Models  Presentation by CH Lawrence Dheeraj
05:03 PM <b>-</b> 05:11 PM	Evaluating Education-Driven Approaches to Promote Sustainable Consumption in University Sports Facilities: Evidence from a Discrete Choice Experiment Presentation by Yinuo MU
05:11 PM - 05:19 PM	How Olympic Values Are Enacted in PE Teacher Education: A Multi-Stakeholder Perspective from Faculty and Pre-Service Teachers  Presentation by Jiang Sangsang











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## Technical Session – 2B Virtual 22nd August, 2025













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#### Day 2 Technical Session – 2B, Virtual – 22<sup>nd</sup> August, 2025

04:15 PM – 04:23 PM	The impact of integrated value education on the effectiveness of physical education courses: a comparative study on students' ideological and political literacy, physical health and course satisfaction  Presentation by Sui Xiangping
04:23 PM - 04:31 PM	Investigating the Role of Internal Control Mechanisms on Revenue Collection in Local Government Authorities (LGAs)  Presentation by Faiza Hamidu Msheri
04:31 PM - 04:39 PM	Quadratic Modeling in Technology-Enhanced Learning: Applications, Instructional Methods, and Pedagogical Insights  Presentation by Dr. Chetna
04:39 PM - 04:47 PM	Effect of Residual Stress on Creep Behavior in Composite Disc with Variable Thickness Presentation by Dr. Vandana
04:47 PM – 04:55 PM	STEAM and the Textile Recycling Revolution; Towards a Sustainable Future Presentation by Nashielly Yarzabal Coronel













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#### Day 2 Technical Session – 2B, Virtual – 22<sup>nd</sup> August, 2025

04:55 PM - 05:03 PM	PAVEMENT DESIGN USING RECYCLED PLASTIC WASTE
	Draggatation loss DD A DNIV A MADITTI CADALE

Presentation by PRADNYA MARUTI SABALE

05:03 PM – 05:11 PM Financial Literacy among Philippine National Police Forces

Presentation by Dr Rowena Zaratan Hurley

05:11 PM - 05:19 PM DOMINATION NUMBER OF DOUBLE GRAPH OF SOME GRAPHS

Presentation by Udhayashree R







