

Programme Book



*Knowledge, Innovation, and Resilience:
Towards Sustainable Futures through Technology*

Vice Chancellor's Awards and Academic Sessions 2026

4th March 2026

**Organized by
Faculty of Engineering
University of Ruhuna
Hapugala
Galle**

Vice Chancellor's Awards and Academic Sessions 2026

University of Ruhuna

4th March 2026, Faculty of Engineering, University of Ruhuna

Agenda

08:00 – 08:45	Refreshments and Registration
08:45 – 09:00	Ceremonial Procession
09:00 – 09:05	Lighting the Oil Lamp
09:05 – 09:10	University Anthem
09:10 – 09:20	Cultural Event
09:20 – 09:30	Welcome Address Prof. Sudhira De Silva Chairperson of the Vice Chancellor's Awards and Academic Sessions 2026
09:30 – 09:40	Best Presenter Awards – Vice Chancellor's Awards and Academic Sessions – 2025
09:40 – 10:10	Keynote Speech “Research in the Era of AI and Advanced Technologies: Bridging Disciplines and Putting Humans at the Centre” Senior Prof. Ruwan Gopura Faculty of Engineering, University of Moratuwa, Sri Lanka
10:10 – 10:20	Launching of E-Proceedings Editor-In-Chief Dr. Terrance M. Rengarasu
10:20 – 10:35	Vice Chancellors Awards
10:35 – 10:45	Cultural Event
10:45 – 10:55	UOR Tier 4 Star Awards
10:55 – 11:10	Address by Senior Prof. P.A. Jayantha Vice-Chancellor, University of Ruhuna
11:10 – 11:35	Oration “The Contribution of Pharmaceutical Pollutants in Sri Lankan Waters to Antibiotic Resistance” Prof. G. G. Tushara Chaminda Faculty of Engineering, University of Ruhuna
11:35 – 11:45	Conferment of Emeritus Professorship
11:45 – 11:55	Vote of Thanks Dr. Kumudu Seneviratna Secretary of the Vice Chancellor's Awards and Academic Sessions– 2026
11:55 – 12:00	National Anthem
12:00 – 13:00	Lunch
13:00 – 17:30	Technical Sessions – Oral/Poster Presentations
18:30 Onwards	Dinner

Conferment of Emeritus Professorship

Senior Professor (Ms.) K.A.P.W. Jayatilaka

Faculty of Medicine

Oration

Professor G.G. Tushara Chaminda
Faculty of Engineering

Recipients of the Vice Chancellor's Awards-2025

The Most outstanding scholar

Dr. K. G. Priyashantha
Faculty of Management and Finance

The Most Outstanding Young Researcher

Dr. K. L. Kushan Sudheera
Faculty of Engineering

The Most Outstanding Saff Inventor/Innovator

Professor Anoja P. Attanayake
Faculty of Medicine

UOR Tier 4 Star Awards

Senior Professor Ajith Nagahawatta
Faculty of Medicine

Senior Professor D. A. L. Leelamanie
Faculty of Agriculture

**Recipients of the Best Presenter Awards
Academic Sessions 2025
Technical Sessions**

Technical Session	Awardee
Agriculture, Environment, and Biological Sciences	Mr. H. K. M. S. Kumarasinghe Department of Crop Science Faculty of Agriculture
Engineering, Technology and Applied Sciences	Mr. R. Saahith Ahamed Department of Electrical and Information Engineering Faculty of Engineering
Education, Humanities and Social Sciences	Dr. Wijerathna Bohingamuwa Department of History and Archeology Faculty of Humanities and Social Sciences
Human Health, Pharmaceuticals and Medicine	Dr. H.W.A.S. Subasinghe Department of Pharmacy Faculty of Allied Health Sciences
Economics Finance and Management	Mrs. D.M.R. Deepika Department of Management and Entrepreneurship Faculty of Management and Finance

Recipients of the Best Presenter Awards

Academic Sessions 2025

Poster Sessions

Poster Session	Awardee
Agriculture, Environment, and Biological Sciences (Session 1)	Ms. M.D.H. Lakmali Department of Bio Systems Technology Faculty of Technology
Agriculture, Environment and Biological Sciences (Session 2)	Mr. A.M.K.C.J. Costa Department of Limnology and Water Technology Faculty of Fisheries and Marine Sciences & Technology
Engineering, Technology, and Applied Sciences (Session 3)	Dr. H.G.S. Mayuranga Department of Civil and Environmental Engineering Faculty of Engineering
Education, Humanities and Social Sciences	Mr. S.M.A.P. Rathnasiri Department of History & Archaeology Faculty of Humanities & Social Sciences
Human Health, Pharmaceuticals and Medicine	1. Mr. M.A.T. Hasanka Department of Pharmacy Faculty of Allied Health Sciences 2. Ms. T.P.G.A. Uthdesha Department of Pharmacy Faculty of Allied Health Sciences

Technical Session 1	: Agriculture, Environment and Biological Sciences
Venue	: LT 1
Chair	: Senior Prof. G.Y. Jayasinghe
Evaluators	: Prof. Indunil Pathirana Dr. S.S. Herath
Session Convener	: Dr. M.A.P. De P. Wickramaratne D.A.A.S. Fernando

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-005	Global Perspectives on PFAS Contamination in Animal-Source Foods: Implications for Food Safety in Sri Lanka <i>H. Priyashantha</i>
13.15 – 13.30	ABS-010	Effect of Urea and Calcium Nitrate Application Timing as Top-Dressing Fertilizer on Texture Variation of Pickling Gherkin (<i>Cucumis sativus</i> L.) <i>W. M. H. H. Wijesuriya, H.K.M.S. Kumarasinghe, S. R. Amarasinghe, P. A. B. N. Perumpuli</i>
13.30 – 13.45	ABS-011	Evaluation of Pelletized Poultry Droppings Fertilizer as an Alternative Nitrogen Source for Curry Chili (<i>Capsicum annum</i>) Cultivation under Protected House Conditions <i>K.H.H.U. Sampath, H.K.M.S. Kumarasinghe, S.R. Amarasinghe, K.M.T.S.Bandara</i>
13.45 – 14.00	ABS-014	Development of Medium Chain Triglyceride Enriched Milkshake for Ketogenic Diet <i>M.M.D.P. Maheepala, K.N. Wijayasekara, K.M.W. Rajawatta</i>
14.00 – 14.15	ABS-023	Environmental Sensitivity of Talalla Coastal Beach: A Tourism Hotspot in Southern Sri Lanka <i>A.J.G.Z. Fernando, L.N. Wijewardene, H.B. Asanthi</i>

14.15 – 14.30	ABS-032	Formulation of Non-Fat Yoghurt Drink with Butternut Squash (<i>Cucurbita moschata</i>) Puree: Optimization Using Response Surface Methodology <i>N.G.D.T. Bandara, N.M.N.K. Narayana</i>
14.30 – 14.45	ABS-034	Physicochemical, Melissopalynological, and Antimicrobial Characterization of Natural Bee Honey from Diverse Agroecological Regions in Sri Lanka <i>E.G.Y.S. Gamage, R.M. Dharmadasa, D.M. Gamage</i>
14.45 – 15.00	ABS-036	Development and Evaluation of Biodegradable Nursery Cups Using Eggshell Waste Incorporated with Natural Binding Agents <i>J.M.M.R. Senavirathna, H.C.C. De Silva, K.M.W. Rajawatta</i>
15.00 – 15.15	ABS-042	Comparison of Polytunnel Structures on Agronomic and Economic Performances of Salad Cucumber (<i>Cucumis sativus</i> L.) Under Warm Humid Tropical Environment <i>L.D.N.C. Liyanage, M.K.D.K. Piyaratne, K.K.L.B. Adikaram, D. Ratnasekara, K.M.C. Fernando</i>
15.15 – 15.30	ABS-044	Development of a Small-Scale Extruder Machine and Evaluation with the Production of Jackfruit Seed Flour-Based Extruded Snack <i>S.M.M. Wijesinghe, K.M.W. Rajawatta, K.N. Wijayasekara</i>

Technical Session 2	: Agriculture, Environment and Biological Sciences
Venue	: LR 1
Chair	: Prof. R.A. Maithreepala
Evaluators	: Prof. Lanka Ranawake Dr. K.S.S. Atapaththu
Session Convener	: Dr. W.S. Weerakkody E.S. Mathangadeera

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-054	Effect of Storage Conditions on Staphylococcus aureus Found in Giant Freshwater Prawn <i>A.U. Kuragodage, K.H.M.A. Deepananda, H.H. Peiris, U.A.D.Jayasinghe, C. Jones</i>
13.15 – 13.30	ABS-058	Spatial Variability of Soil Organic Carbon Stocks in the Mangrove Ecosystem of Koggala Lagoon, Sri Lanka <i>S.D. Bandara, A.D. Heenkenda, T. K. Weerakoon, D.N. Kannangara</i>
13.30 – 13.45	ABS-059	Optimization of Coagulation Performance Using Bio-Coagulants from Banana and Pineapple Waste as an Alternative to Aluminium Alum <i>S.U. Hettiarachchi, P. Kaushana, D.N. Kannangara, K. Sanjaya</i>
13.45 – 14.00	ABS-061	Formulation and Quality Evaluation of a Value-Added Hot Sauce Incorporating Scotch Bonnet (Capsicum chinense) and Traditional Lime Pickle (Citrus aurantifolia) <i>R.G.G.S.M.B. Jothirathna, K.N. Wijayasekara, K.M.W. Rajawatta</i>

14.00 – 14.15	ABS-062	Fish Waste Valorization for Sustainable Animal Feed Production: A Comprehensive Review <i>K.N. Wijayasekara, D.N. Kannangara, K.H.T. Karunarathna, R. Dhanusha</i>
14.15 – 14.30	ABS-067	Uncovering Six New Rice MYB Orthologs Involved in Anthocyanin Pathways and Abiotic Stress-Responsive Regulatory Networks <i>N.V.T. Jayaprada, S. Geekiyanage</i>
14.30 – 14.45	ABS-079	Variation of Leaf Morphology of Selected Cinnamon Accessions in Two Agroecological Regions of Sri Lanka <i>V. Nithiyanjai, M.R. Prathibhani, P.K.D. Sandamini, R.A.A.K. Ranawaka, L. Jayasekara, S. Geekiyanage</i>
14.45 – 15.00	ABS-084	Eugenol and Benzyl Benzoate Chemotypes of Cinnamon (<i>Cinnamomum verum</i>) in Sri Lanka <i>M.R. Prathibhani, N.V.T. Jayaprada, R.A.A.K. Ranawaka, L. Jayasekara, H. Tamura, S.A. Ranaweera, G. Senanayake, S. Geekiyanage</i>
15.00 – 15.15	ABS-114	Assessing the Export Competitiveness and Market Potential of Coconut Kernel-Based Products in Sri Lanka <i>A.M.M. De Silva, W.N. De Silva, M.A.M.I. Perera, G.I. Wijayathilake, J. Galagedara</i>
15.15 – 15.30	ABS-125	Assessing Entrepreneurial Skills of Small-Scale Agro-Entrepreneurs: A Case Study in Galle District, Sri Lanka <i>A.D.R. Karunarathne, M.A.P.D.P. Wickramaratne, W.N. De Silva, M.U.N. Gunawardana</i>
15.30 – 15.45	ABS-137	Prevalence of Haemoparasites and Their Impact on Haematological Parameters of Dogs in Selected Sites in Matara District, Sri Lanka <i>H.M.N.P. Wijesinghe, K.A.M. Sudarshani, H.C.E. Wegiriya</i>

Technical Session 3	: Computer Science and Information Technology
Venue	: NLH 2
Chair	: Prof. W.A. Indika
Evaluators	: Dr. K.D.C.G. Kapugama Mr. Aruna Lorensuhewa
Session Convener	: Ms. Dilini Jayarathna W.V.N. kularathna

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-006	Adaptive Prompting for Clinical Text Summarization: A Few-Shot Learning Approach Using Generative Large Language Models <i>D. Vithanage</i>
13.15 – 13.30	ABS-043	Machine Learning-Based Tumor Grade Classification Using ADC Maps in Breast MRI <i>G.A.D. Dewminda, W.M.K. De Silva, M.L. Jayathilake, A.D.S. Suranga, B.S. Weerakoon, S.M. Vijithananda, P.D.S.H. Upul</i>
13.30 – 13.45	ABS-049	A Global Bibliometric Mapping of Plagiarism Detection Research (1990–2024) <i>B.B.D.S. Abeykoon, H.M.C. Pushpakumara</i>
13.45 – 14.00	ABS-076	LinkShield: Integrating Blockchain, Cryptography, and Reinforcement Learning to Prevent Link Discovery Attacks in SDVN <i>P.A.D.S.N.Wijesekara, K. L. K. Sudheera, G. P. Wijesiri</i>
14.00 – 14.15	ABS-089	A Multi-Modal Emotion-Aware System for Workplace Wellness Using Emotion Recognition and an Empathetic Robot <i>P.K.S. Didulani, D.N.M. Wijesekara, T.D.R. Prashana, P.D. Dinuk, G.G.N. Sandamali</i>

14.15 – 14.30	ABS-118	AI-Assisted Autonomous Trading System for Volatile Cryptocurrency Tokens <i>P.K. Abeysekara, A.M.V.S. Adikari, G.W.B. Anjanaa, W.A.S.S. Weerasingha, T.N. Weerasinghe</i>
14.30 – 14.45	ABS-129	LLM-Based Banking System for Microfinance Companies in Rural Areas Using Blockchain and Artificial Intelligence <i>P.A.D.S.N. Wijesekara, P.G.R.V.D. Ariyaratna, K.D.P.H. Kandanage, M.H. Ketawala, A.P.P.S. Abeydeera</i>

Technical Session 4 : Economics, Finance & Management

Venue : NLH 1

Chair : Prof. T.S.L.W. Gunawardana

Evaluators : Dr. M.S. Nanayakkara
Dr. K.G. Priyashantha

Session Convener : Dr. Chirath Jeewantha
R.M.U.I.K. Rathnayaka

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-098	The Impact of Digital Financial Literacy on Performance of Small and Medium-Scale Enterprises in Matara District, Sri Lanka <i>D.M.R. Deepika, P.K.N.R. Kumarasiri</i>
13.15 – 13.30	ABS-102	Impact of Perceived Risk on Online Food Purchase Intention: Evidence from Food Ordering App Users in Sri Lanka <i>D.D.T.R. Poththawela, W.W.I. Madhavi, P.A.P. Samantha Kumara</i>
13.30 – 13.45	ABS-122	The Impact of Social Media on SMEs Growth in Rathnapura District <i>D.D.S.M. Wijesinghe, M.A.D. Hemali, D.M.R. Deepika</i>

Technical Session 5	: Education, Humanities and Social Sciences
Venue	: NCC
Chair	: Dr. S.G.S. Samaraweera
Evaluators	: Dr. N.A.D. Jayasinghe Dr. L.S. Karunarathna
Session Convener	: Dr. J.J.G. Arachchige R.D.O.D. Randeniya

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-020	Impact of Sleep Patterns on Attention Focus during Lectures: A Perception-Based Study of Undergraduate Students <i>S.N. Garusingarachchi, J.J.G. Arachchige</i>
13.15 – 13.30	ABS-022	ශ්‍රී ලංකාවේ දකුණු පළාතේ මහජන ප්‍රස්තකාලවල ක්‍රියාත්මක ළමා පාඨක සේවා පිළිබඳ විමර්ශනාත්මක අධ්‍යයනයක් <i>J.R. Wijerathna, J.J.G. Arachchige</i>
13.30 – 13.45	ABS-094	Assessing the Feasibility of WhatsApp-Based Digital Extension Services for Paddy Farmers in Sri Lanka: Evidence from Ampara District <i>A.G.A. Mohamed, M.A.P.D.P. Wickramaratne, M.W.K.K. Dilrukshi</i>
13.45 – 14.00	ABS-096	Interconnected Academic, Personal, Social, and Administrative Challenges: An Anonymous Digital Help Desk for Undergraduates at the Faculty of Agriculture, University of Ruhuna <i>M.W.K.K. Dilrukshi, S.M. Jayasinghe, G.C. Samaraweera, N. Gunaratne</i>
14.00 – 14.15	ABS-103	Collective War Memory and Ethnic Reconciliation in Contemporary Sri Lanka: Voices from the Eastern Province <i>S. Gunasekara, M.T.R. Farwin</i>

14.15 – 14.30	ABS-107	Systemic Dissonance in Higher Education: The Collapse of Cadre Norms Amidst Expansion and Austerity - Insights through the University of Ruhuna <i>K.K.L.B. Adikaram, P.A. Jayantha</i>
14.30 – 14.45	ABS-130	Green Innovation Intention among Engineering Undergraduates in Sri Lanka <i>R.L. Perera</i>
14.45 – 15.00	ABS-135	Can AI Boost the 3Rs? Exploring the Influence of AI-Based Learning Applications on Students' Information Processing Skills <i>H.E.P. Mayuri, J.A. Ajith</i>
15.00 – 15.15	ABS-136	AI Readiness in Academic Libraries: Usage Patterns, Barriers, and Training Needs at the University of Ruhuna <i>K.A.I.M. Amarasekara</i>
15.15 – 15.30	ABS-139	Approaches to Measuring and Modelling School Education Quality: A Systematic Review <i>E.V.D. Dilhani, H.L. Jayatileke, L. Jayasekara</i>
15.30 – 15.45	ABS-140	'ත්‍රිමිද ගලින හස්ති' යන්න භාෂා-සාහිත්‍ය සංකල්පයන්හි ලා විශද වන ආකාරය <i>Ven. M. Ariyawansa</i>

Technical Session 6	: Engineering, Technology and Applied Sciences
Venue	: Faculty Board Room
Chair	: Dr. Subodha Gunawardana
Evaluators	: Dr. L.K.T. Srimal Dr. Tharindu Gamage
Session Convener	: Dr. Geeth Priyankara L. Sharkeshan

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-004	Design of Hoisting System for Six Vertical Sliding Gates in Oliyamulla Stormwater Pumping Station <i>J.L.R.M. Kumara, K.K.G. Ranaweera</i>
13.15 – 13.30	ABS-016	Design and Development of a Low-Cost Multifunctional Medical Device with Integrated Syringe Pump and Remote Access <i>H.L. Subasinghe, G.G.G. Rajith Gihara, G.G.Y.C. Amarakoon, R.M.T.R. Rajakaruna, P.B.S. Wijerathna, R.G.I.S. Munasinghe</i>
13.30 – 13.45	ABS-021	Investigating Barriers to Sustainable Waste Material Adoption in Concrete Production: A Study in the Sri Lankan Construction Industry <i>D.H.A. Maduranga, W.W.P.A. Dhanushka, C.E. Kankanamge, J.M.R.S. Appuhamy, W.M.K.R.T.W. Bandara</i>
13.45 – 14.00	ABS-030	Development of Virtual Environment for Swing-Up of Rotary Double Inverted Pendulum for Engineering Education <i>A.W.B.I. Annasiwaththa, S.M.S. Dinendra</i>

14.00 – 14.15	ABS-035	IMU Sensor-Based Gait Analysis System for Stroke Risk Identification in Older Adults <i>W.A.D.S. Malinge, K.D.S. Yashodana, D.M.C.M.B. Dissanayake, H.G.C. Nimnathara, J.W.A. Madushika, K.K.D.C.S. Weeraratne</i>
14.15 – 14.30	ABS-046	Development of a Low-Cost Smart Medical Bed with mmWave Radar-Based Non-Contact Monitoring and Bilingual Voice Control System <i>H.L. Subasinghe, H.A.I. Madusankha, D.M.K.I. Dissanayake, M.N. Sewwandi, J.G.C. Teshan, W.A.R.D. Wimalarathna, R.E.P.S. Mayadunna</i>
14.30 – 14.45	ABS-053	Hydrodynamic Dam Breach Modelling of Ancient Earthen Embankment Dams in Sri Lanka: A Case Study <i>G.K.P. Wickramasinghe, S.W. Seneviratne, A.G. Jayasinghe</i>
14.45 – 15.00	ABS-065	Mitigation of Atmospheric Duct Interference (ADI) in LTE-TDD Networks: A Machine Learning-Based Approach <i>K.W.H. Roshani, C. Agakar, T. Laksayan, J. Mathushagan, B.G.S.U. Wijesinghe, L.I.M. Liyanagamage, T.N. Weerasinghe, W.N.B.A.G. Priyankara, C.K.W. Senevirathne</i>
15.00 – 15.15	ABS-071	AI-Based Real-Time Multi-Agent Depression Detection and Therapy System <i>H.P.P.P. Hettiarachchi, P.P. Kavindya, D.M.S.N. Jayasinghe, L.I.N. Kumarasiri, G.G.N. Sandamali</i>
15.15 – 15.30	ABS-073	High-Volume Automated MCQ Marking: An Image Processing Approach for Enhanced Efficiency and Accuracy <i>S.H.K.K. Gunawikrama, U.G.R.S. Bandara, D.M.S.C. Dissanayaka, D.M.M.I.T. Dissanayake, H.L.D.U.G. Perera</i>

15.30 – 15.45	ABS-074	AI Aided Abnormal Events Detection in Multi-Camera Surveillance Systems <i>S.S.K.K. Gunawikrama, R.M.P.A. Weerasinghe, R.W.R.L. Welikumbura, L.L.C. Sewwandi, W.M.N.S. Weerasingha</i>
15.45 – 16.00	ABS-082	Implementation of a GPS Guided Remote Controlled Surveillance Rescue Boat <i>M.G.D. Shakthi, A.M. Ajward, D.M.K.I. Dissanayake, T.V.H. Hewa, M.K.T. Prabhaswara, S.D.A.S. Prasanna</i>
16.00 – 16.15	ABS-083	Nm Index: A Percentile-Based Metric Accounting for Author Contribution, Sequence, Influential Self-Citations, Career Stage, and Field Norms for Assessing Global Scholarly Impact <i>P.A.D.S.N. Wijesekara</i>

Technical Session 7	: Engineering, Technology and Applied Sciences
Venue	: Seminar Room
Chair	: Dr. Prabhath Weerasinghe
Evaluators	: Dr. Kaveen Liyanage Dr. Charaka Rasanga
Session Convener	: Ms. Ranjika Perera B. Abhishek

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-086	IoT-Enabled Multi-Modal AI System for Detecting and Predicting the Freshness and Ripeness of Produce <i>A.S.A. Dhahlan, A.J.A. Shahmi, M.M. Imran, K.T. Malith, K.L.K. Sudheera, G.G.N. Sandamali</i>
13.15 – 13.30	ABS-090	An Optimization-Driven Energy and Throughput-Aware Stable Multipath Flow Routing Scheme Considering Flow Interactions for Software-Defined Vehicular Networks <i>D.I. Vihan, P.A.D.S.N. Wijesekara, D.M.I. Umayangana, K.D.L. Navoda, H.W.S.H. Vidusanka</i>
13.30 – 13.45	ABS-093	A Multimodal AI Framework for Automated Grading of Digital and Text-Based Handwritten Exams <i>M.Y. Virajani, K.D.S. Udayanthika, W.A.S. Wahalathanthri, K.N. Poornima, G.G.N. Sandamali</i>
13.45 – 14.00	ABS-099	Agentic AI-Powered Workflow Automation System <i>E.A.N.H. Ediriwickrama, N.M.A.C. Nipun, R.P.H. Prabuddhika, K.A.C.H. Vindyani, T.N. Weerasinghe</i>
14.00 – 14.15	ABS-115	Smart Home Energy Management System with Integrated PV and Battery Storage <i>N.P. Kulasena, M.G.D. Dhanushika, P.D. Sanjuka, C.P. Mallawarachchi, K.M.I.U. Ranaweera</i>

14.15 – 14.30	ABS-116	Design and Prototyping of a Grid-Forming Inverter for a Microgrid <i>P.D.C. Perera, M.R.M. Mushrif, U.H.M. Nuwandara, H.A.M.I.C. Senevirathne, B.M.I.P. Rathnayaka, L. De Silva</i>
14.30 – 14.45	ABS-119	Balancing an Inverted Pendulum on a Two-Wheeled Cart Under Low Sensor Sample Rate <i>A.W.B.I. Annasiwaththa, R.M.A.S. Wijerathna, S.M.S. Dinendra</i>
14.45 – 15.00	ABS-123	Aero Sense Phase II — AI-Enhanced ELF Radio Receiver for Unmanned Aerial System Detection and Localization <i>R.R. Hapuarachchi, R.D.A.D. Rathnayaka, K.A.T. Virajith, D.K. Wickramasuriya, C. Seneviratne, A. Madanayake</i>
15.00 – 15.15	ABS-124	AI-Driven Driver Assistance for Electric Vehicles <i>S.M. Asam, R. Himosh, N.M. Infas, A.H.M. Arshad, K.L.K. Sudheera, G.G. Dayarathna</i>
15.15 – 15.30	ABS-126	Factors Influencing Thermal Comfort and Occupant Well-Being in Naturally Ventilated Buildings and Their Level of Impact <i>M.M.L. Pemachandra, B.L.D.K. Liyanage, S.N. Malkanthi</i>
15.30 – 15.45	ABS-128	Effect of Particle Size and Shape on the Breakage Characteristics of Ballast Aggregates Used in Sri Lankan Railway Tracks <i>P.V.S.M. Nayanajith, J.P. Tharaka, H.G.S. Mayuranga</i>
15.45 – 16.00	ABS-133	Mixed Reality Based Immersive Communication Platform for Enabling Telepresence <i>U. Jathusan, N.D.P.A. Naulla, M.G.R.M. Rusham, K. Risinath, K.L.K. Sudheera</i>

16.00-16.15	ABS-134	Doctracer: Intelligent Document Information Extraction and Processing Toolkit for Sri Lankan Extraordinary Gazettes <i>A.U. Amarasinghe, R.N.C. De Zoysa, P.K.H.D. De Silva, K.D. Ranaweera, K.L.K. Sudheera, V. Abeykoon</i>
16.15-16.30	ABS-138	Stormwater Quality Assessment of Urban and Rural Road: A Comparative Analysis of Runoff and Dust Sampling Methods <i>R. Kethuja, D.M.A.E. Jayasinghe, D.M.G.K.P. Dasanayake, W.M.K.R.T.W. Bandara, B.M.L.A. Basnayake, T.M. Rengarasu</i>
16.30-16.45	ABS-029	Design and Implementation of a Fixed-Wing VTOL UAV Utilizing Conventional Control Surfaces for Automatic Vertical Take-Off and Horizontal Transition <i>A.W.B.I. Annasiwaththa, R.M.A.S. Wijerathna, W.M.D.B. Wijethunga, A.V.K. Croos, R.M.S.S. Bandara</i>

Technical Session 8	: Human Health, Pharmaceuticals and Medicine
Venue	: LT 2
Chair	: Prof. H.H. Peiris
Evaluators	: Prof. G.E.D. De Zoysa Dr. Pramuduka Kariyawasam
Session Convener	: Dr. Kalani B. Gunawardana W.P.I.A. Sirimanna

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-007	Factors Associated with Electrolyte Disturbances among Diabetic Nephropathy Patients Attending the Diabetes Clinics at National Hospital Galle <i>P.D.T.U. Rajapaksha, R.M.T.M. Ramanayake, M. Weerakkody</i>
13.15 – 13.30	ABS-027	An Exploratory Psychometric Assessment of the Clinical Learning Environment and Supervision Evaluation Scale (CLESES) for Nursing Undergraduates in Sri Lanka <i>U.S.N. Yatawara, N.K.G. Manodya, S.M.E.B. Weeratinga, B.I. Wickramarachchi</i>
13.30 – 13.45	ABS-050	Impact of Pre-Fracture Sarcopenia on Short-term Mortality of Hip Fracture Patients Admitted to a Tertiary Care Center in Southern Sri Lanka <i>M.P.H.K. Dias, N. Rathnayake, T.U.W. Abeygunasekara, S. Lekamwasam</i>
13.45 – 14.00	ABS-069	The Health-Related Quality of Life among the Informal Family Caregivers of Older Adults with Disabilities in Gampaha District <i>K.K.D.W.Y. Kannangara, N. Rathnayake</i>

14.00 – 14.15	ABS-070	Comparative Study of Cell Permeability and Cell Viability of Desferrioxamine Incorporated Chitosan/Polyethylene Oxide/Ethyl Cellulose Nanocomposite in Caco-2 and HeLa Cells <i>A.K.D.V.K. Wimalasiri, P. Kalansuriya, B.P. Espósito, K. Siriwardhana, M. Mohotti, J.C. Godevithana, T.A. Pereira</i>
14.15 – 14.30	ABS-072	Evaluation of Selected Sri Lankan Medicinal Plants for Selective Anticandidal Properties: Implications for Herbal Oral Care Formulations <i>D.N. Wanigasekara, S.S. Wickramasinghe, G.B. Wijayaratne, M.T. Napagoda</i>
14.30 – 14.45	ABS-081	Knowledge, Attitudes and Practices towards Psychotropic Medications among Undergraduates: A Cross-sectional Study at University of Ruhuna, Sri Lanka <i>A.V.H. Herath, S.S. Amarasiri</i>

Technical Session 9	: Human Health, Pharmaceuticals and Medicine
Venue	: LR 2
Chair	: Senior Prof. Manjula Hettiarachchi
Evaluators	: Prof. E.I. Waidyaratne Dr. E.H. Silva
Session Convener	: Dr. Nayomi D. De Silva M.G.O.V. Weerasinghe

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-091	Pharmaceutical Pricing and Governance in Sri Lanka and LMICs: From Price Ceilings to Adaptive Accountability <i>M. Jayasinghe, A. Rush, A. Wilson</i>
13.15 – 13.30	ABS-092	Pharmaceutical Manufacturing in Sri Lanka: Production and Formulation Challenges <i>M.A.S.U. Manimendra, H.W.A.S. Subasinghe, M. Jayasinghe</i>
13.30 – 13.45	ABS-100	Hepatic steatosis and its associated factors among patients with psoriasis receiving methotrexate <i>A. Liyanage, G. Liyanage, S. De Zoysa, B. Wijenayake, B. Yapa, M. Pushparani, V. De Silva, S. Imafuku, S. Lekamwasam</i>
13.45 – 14.00	ABS-101	Availability and Acceptability of Hormone Replacement Therapy for Menopause in Sri Lanka: Insights of Pharmacists <i>V.M. Pathiraja, H.K.J. Dhanarisi, T. Mudalige, L. Dassanayake, N. Rathnayake, P. Phiri, S. Elneil, G. Delanerolle</i>

14.00 – 14.15	ABS-105	Self-Medication Practices and Awareness among Mothers of 3-5 Year Old Children in Matara Municipality Area <i>A.V.S. Sathsarani, W.V.R.T.D.G. Bandara, S. Gunawardena</i>
14.15 – 14.30	ABS-106	Polypharmacy among Patients with Diabetes Mellitus Attending the Diabetic Clinic, National Hospital, Galle <i>D.M.K. Lakshika, K.B. Gunawardana, S.A. Mendis, P.L.G.C. Liyanage</i>
14.30 – 14.45	ABS-113	Optimization and Validation of a UV Spectrophotometric Assay for Empagliflozin: A Cost-Effective Approach for Pharmaceutical Quality Control <i>M.A.L.D. Malwatta, P.W.D. Wasana, S. Gunawardena</i>

Technical Session 10	: Pure Sciences, Mathematics & Statistics
Venue	: NLH 3
Chair	: Dr. G.I.P. Perera
Evaluators	: Prof. B.G.A.S. Pradeep Dr. N.M. Wagarachchi
Session Convener	: Dr. T.G. Dayananda K.A.V. Madhushan

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-003	Digital Image Security on Elliptic Curve using Visual Cryptography <i>D.M.S. Bandara, W.A.D.L. Kumara</i>
13.15 – 13.30	ABS-017	Modeling Conditional Value-at-Risk Using Tukey's g-and-h Family of Distributions with Maximum Approximated Likelihood Estimation <i>S.M. Abeygunasekara, W.A.R. De Mel</i>
13.30 – 13.45	ABS-018	Forecasting Green Tea Production in Sri Lanka: A Time Series Analysis <i>S.H.C.B. De Silva, S.D.M. Dilshani</i>
13.45-14.00	ABS-045	Deriving the Density Form Factor for the Strongly Interacting ($c \rightarrow \infty$) 1D-Bosons in Lieb-Liniger Model <i>E.J.K.P. Nandani, Xi-Wen Guan</i>

Technical Session 11	: Poster Session - 1
Venue	: Auditorium
Chair	: Prof. W.G.D. Lakmini
Evaluators	: Prof. W.V.R.T.D.G. Bandara Prof. P.A.B.N. Perumpuli
Session Convener	: Dr. Iresha Udayanganie O.D. Kodagoda

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-008	Knowledge and Awareness on Long-Acting Reversible Contraceptive Methods among Women in Childbearing Age: A Cross-sectional Study in Ampara District, Sri Lanka <i>I.M.F. Sasy, H.W.A.S. Subasinghe, K.A.K.D. Wijesekera</i>
13.15 – 13.30	ABS-025	Ethnobotanical Survey of Medicinal Plants Used for the Management of Inflammatory Bowel Disease by Ayurveda and Traditional Medicine Practitioners in Matara District <i>M.K.T. Witaranage, N.D. De Silva, A.P. Attanayake</i>
13.30 – 13.45	ABS-026	Synthesis of Chitosan/Alginate Nanoparticles from the Aqueous extract of Asparagus falcatus L. with enhanced anti-inflammatory activity <i>N.D. De Silva, S.N. Garusingarachchi, A.P. Attanayake</i>
13.45 – 14.00	ABS-063	A Cost-Effective Capillary Tube Method for Gram Staining: A Comparative Study with Conventional Slide Technique <i>D.G.G. Apsara, H.H. Peiris</i>
14.00 – 14.15	ABS-080	Synergistic Antioxidant Interactions Between Solanum melongena and Solanum virginianum: Implications for Ayurvedic Polyherbal Formulations <i>S. Dissanayaka, P.W.D. Wasana</i>

14.15 – 14.30	ABS-088	Prescribing Patterns and Costs of Antihypertensive Medications in Secondary Care Hospitals of Galle District, Sri Lanka <i>G.D.S.H. Wickramasinghe, P.W.D. Wasana</i>
14.30 – 14.45	ABS-028	Exploring Marketing Constraints and Potential Opportunities for Coconut-Based Products: Evidence from Batticaloa, Sri Lanka <i>G.C. Samaraweera, M.H.F.N. Samha, T. Geretharan</i>
14.45 – 15.00	ABS-055	Carbon Dioxide Emissions from Model Soil Aggregates Incorporated with Organic Amendments: Effects of Organic Matter and Water Repellency <i>T.D.P. Liyanage, D.A.L. Leelamanie, T.L.S.P. Lekamge</i>
15.00 – 15.15	ABS-056	Effects of Different Plant and Residue-Derived Ashes on Ameliorating Soil Acidity in Paddy Soils of the Low Country Wet Zone, Sri Lanka <i>H.H.G.P. Maheshani, M.G.N. Rupasinghe, S.R. Amarasinghe</i>
15.15 – 15.30	ABS-111	Effects of Water Repellent Levels of Different Organic Amendments on Water Retaining Ability and Floating of Model Soil Aggregates <i>B.M.I.G. Balasooriya, U.I. Samarawickrama, T.D.P. Liyanage, D.A.L. Leelamanie</i>
15.30 – 15.45	ABS-031	ශ්‍රී ලංකාවේ කිතුනු සාහිත්‍ය කලාවේ අභිවර්ධනය වෙනුවෙන් ජාතෝමේ ගොන්සාල්ස්වෙස් පියතුමාගේ දායකත්වය පිළිබඳව ඓතිහාසික අධ්‍යයනයක් <i>L.L.L. Madhuwnathi, L. Gamage</i>
15.45 – 16.00	ABS-097	Assessing the Need for a Digital, Anonymous Students' Help Desk (SHD) at the Faculty of Agriculture, University of Ruhuna <i>S.M. Jayasinghe, M.W.K.K. Dilrukshi, G.C. Samaraweera, N. Gunaratne</i>
16.00 – 16.15	ABS-120	Pedagogical Versus Andragogical Learning Patterns Reflected in Artificial Intelligence Use Among Allied Health Undergraduates at the University of Ruhuna, Sri Lanka <i>K.D.T. Tharuka, A. Karunanayake, V.M. Pathiraja</i>

Technical Session 12 : Poster Session - 2

Venue : DO 1

Chair : Dr. Chathura Senevirathne

Evaluators : Dr. T.M. De Silva
Dr. N.K. Hettiarachchi
Dr. Iromi Ranaweera

Session Convener : Mr. Neel Karunasena
S.R. Kalansooriya

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-039	Classification of pCR and non-pCR in HR+/HER2+ Breast Cancer Subtype Using ADC Maps and Machine Learning Models <i>M.H.S. Kavindi, W.M.K. De Silva, M.L. Jayathilake, A.D.S.S. Sanjeewa, B.S. Weerakoon, S.M. Vijithananda, P.D.S.H. Upul</i>
13.15 – 13.30	ABS-040	Deep Learning-Based Tumor Grade Classification Using ADC Maps in Breast MRI <i>S.B.I.P. Jinadasa, W.M.K. De Silva, M. Jayatilake, A.D.S.S. Sanjeewa, B.S. Weerakoon, S.M. Vijithananda, P.D.S.H. Upul</i>
13.30 – 13.45	ABS-064	AutoGradePro: An Automated Grading System for Short-Answer Assessments Using Rule-Based Methods and Large Language Models <i>G.S.J.Venujana, M.F.A. Munsif, V. Dinojan, T. Jegan, G.G.N. Sandamali</i>
13.45 – 14.00	ABS-095	Artificial Intelligence Framework for Automated Creation of Customized Business Agents for Small Enterprises <i>P.A.D.S.N. Wijesekara, W.P.P. Kumara, P.K. Dissanayake, D.T.N. Diyunugalage, E.M.S.D. Ekanayake, R.D.K.S. Rajapaksha</i>

14.00 – 14.15	ABS-009	Performance Evaluation of a Newly Invented Vertical Axis Wind Turbine with Deflectable Blades <i>G.R.I. Galapatha, A. Koswatta</i>
14.15 – 14.30	ABS-013	Design and Development of an Automated Bead Laying System Using a Three-Axis Gantry Platform <i>K.M.T.A. Bogamuwa, H.T.U.C. De Silva, C.S. Wickramathanthri, H.A.C. Viduranga, H.M.S. Sanjaya, K.J.C. Kumara, K.C. Wickramasinghe</i>
14.30 – 14.45	ABS-015	Development of an Air Quality Monitoring and Treatment System for Biomass Heat Generators <i>S.C.A. Sooriyaarachchi, J.A.P.H. Jayaweera, K.M.B. Sandika, D.M.I.D. Gunathunga, B.H.C.S. Thilakarathna, K.K.D.C.S. Weeraratne, Y.M.A.L.W. Yapa</i>
14.45 – 15.00	ABS-024	Real-Time Traffic Violation Detection and Analysis Using YOLO-Based Computer Vision Models <i>D.S. De Silva, N.K. Mallikarachchi, U.V.S. Manahara, M.M.T.S. Manchanayaka, D.S. Manjula</i>
15.00 – 15.15	ABS-033	A Scalable IoT-Driven Framework for Predictive Maintenance Using Big Data Analytics and Machine Learning <i>D.S. De Silva, A.P.B. Gunathilake, S.T. Jayaweera, B.M.P.B. Pemsiri, K.K.S. Madushan</i>
15.15 – 15.30	ABS-037	Tuition Class and Student Management System <i>S. Silva, M. Wijerathna, B. Rathnayake, S. Tashina, D. Randula</i>

Technical Session 13 : Poster Session - 3

Venue : DO 2

Chair : Dr. Thissa Karunarathna

Evaluators : Prof. S.N. Malkanthi
Dr. Ruwan Weerasooriya

Session Convener : Dr. Chandana Pushpakumara
M.I.M. Ilham

Time	Abstract ID	Title and Author/s
13.00 – 13.15	ABS-060	Integrated Health Monitoring System for Preventive Care and Doctor-Patient Interaction <i>K.A.S.D. Kaluarachchi, S.U. Senanayaka, S.M.K.H.T. Senevirathne, G.G.N. Sandamali</i>
13.15 – 13.30	ABS-075	Analysis of Suitability of Composite Materials under Marine Conditions <i>J.M.S.T. Jayaweera, P.P.M. Arachchi, I.P.P. Chanika, A.I. Abeywickrama, T.K.K.S. Pathmasiri, K.T.K.M. De Silva</i>
13.30 – 13.45	ABS-085	ShieldBlackhole: A Blockchain and Cryptography-based Credible Scheme to Mitigate Blackhole Attacks in SDVN <i>T.M.N.G.S. Karunarathna, P.A.D.S.N. Wijesekara, G.H.N. Lankesha, N.M.K.M. Bandara, B.K.K.N. Rodrigo</i>
13.45 – 14.00	ABS-087	IoT Network Traffic Analysis for User Behavior Mapping and Adaptive Privacy Risk Mitigation <i>T.D. Dissanayake, S.A.D.S. Fernando, J. Duwarahavidyan, W.M.T.H. Bandara, K.L.K. Sudheera</i>
14.00 – 14.15	ABS-104	Enhancing Autonomous Vehicle Safety and Efficiency: Implementation of ANN Models on an Existing Scaled Testbed <i>M.R. Batuwatta, G.Y.R. Gangabodarachchi, D.P. Ariyawansa, T.P.S. Samaranayake, W.N.B.A.G. Priyankara</i>

14.15 – 14.30	ABS-110	Design and Development of a Semi-Automated Machine for Foaming Biodegradable Grow Cups from Banana Pseudostems <i>M.K.R. Navanjana, M.S. Tharaka, P.H.P.D. Kularathna, W.M.H.N. Muhandiram, S.F. Sara, J.W.A. Madushika</i>
14.30 – 14.45	ABS-112	Design and Development of an Electrolysis Stack to Generate Green Hydrogen Using Solar Power <i>H.K.D.C.H. Kularathna, M.P.S.I. Ranaweera, W.A.D. Rangana, W.P. Madhusankha, Y.S.K. De Silva</i>
14.45 – 15.00	ABS-117	Maximum Wind Power Harvesting Using Interior Type Permanent-Magnet Synchronous Generator <i>P.D.C. Perera, D.L. Athapaththu, T.C. Sendanayaka, A.A.G.M. Amarathunga, D.H. Abeywickrama</i>
15.00 – 15.15	ABS-121	Modelling Temperature Distribution Analysis in a Data Center Using CFD-Transient Analysis for Cooling Layout Optimization <i>S.P.N.C. Croos, S. Sharan, Y.M.U.I. Yapa, V.H.P. Vitharana</i>
15.15 – 15.30	ABS-132	AI-Based Code Generator and Code Reviewer <i>R.P.R.T.N. Samaraweera, A.P.D. Malisha, G.U.T.N.C. Jayarathne, U.G.R.D. Maithreepala, K.L.K. Sudheera, L. Sandeepa, H. Wijayatilake</i>