



PROGRAMME BOOK

ACADEMIC SESSIONS AND VICE CHANCELLOR'S AWARDS - 2024

*"Nurturing Excellence in Research: Boosting Empowerment-Oriented
Advances in Academic Productivity"*

20TH MARCH 2024

**FACULTY OF GRADUATE STUDIES AND LIBRARY
UNIVERSITY OF RUHUNA
MATARA
SRI LANKA**

Academic Sessions and Vice Chancellor's Awards – 2024
University of Ruhuna

Agenda

Time	Program
08.00 – 08.30	Refreshments and Registration
08.30 – 08.40	Ceremonial Procession
08.40 – 08.45	Guests to be seated
08.45 – 08.50	Lighting of Oil Lamp
08.50 – 08.55	University Anthem
08.55 – 09.00	Cultural Event
09.00 – 09.10	Welcome Address Snr. Prof. Mangala De Silva Chairperson of the Academic Sessions and Vice-Chancellor's Awards – 2024
09.10 – 09.20	Address by the Guest of Honor Snr. Prof. E.P.S. Chandana Deputy Vice-Chancellor, University of Ruhuna
09.20 – 09.30	Best Presenter Awards – 20th Academic Sessions
09.30 – 09.55	Keynote Speech “Role of Research in Higher Education and Career Development” Vidya Jyothi Prof. H. Janaka De Silva Emeritus Professor, University of Kelaniya
09.55 – 10.20	Vice Chancellor's Awards
10.20 – 10.25	Cultural Event
10.25 – 10.30	UOR Tier 4 Star Awards
10.30 – 10.45	Address by the Chief Guest Snr. Prof. Sujeewa Amarasena Vice-Chancellor, University of Ruhuna
10.45 – 11.10	Oration “Plant Responses to Elevated CO ₂ Concentrations: Understanding the Implications for Global Food and Nutrient Security” Prof. Saman Seneweera Faculty of Agriculture, University of Ruhuna
11.10 – 11.20	Awarding of Professor Emeritus
11.20 – 11.30	Vote of Thanks Mr. Nimal Hettiarachchi Secretary of the Academic Sessions and Vice-Chancellor's Awards – 2024
11.30 – 11.35	National Anthem
11.35 – 12.30	Lunch
13.00 – 16.00	Technical Sessions Faculty of Fisheries and Marine Sciences & Technology

Conferment of Emeritus Professorships

Senior Professor L.P. Jayatissa

Faculty of Science

Senior Professor S. Subasinghe

Faculty of Agriculture

Recipients of the Vice Chancellor's Awards - 2023

The Most Outstanding Scholar

Prof. G.G. Tushara Chaminda
Faculty of Engineering

The Most Outstanding Young Researcher

Dr. C.L. Fonseka
Faculty of Medicine

The Highest Recipients of Grants

Snr. Prof. G.Y. Jayasinghe
Faculty of Agriculture

The Most Outstanding Student Inventor/ Innovator

Mr. K.G. Samarathna
Faculty of Graduate Studies

The Most Outstanding Promoter of International Relations

Snr. Prof. G.Y. Jayasinghe
Faculty of Agriculture

Recipients of the UOR Tier 4 Star Award

Prof. Disna Rathnasekara
Faculty of Agriculture

Snr. Prof. P. Mangala C.S. De Silva
Faculty of Science

Prof. G.G. Tushara Chaminda
Faculty of Engineering

Snr. Prof. G.Y. Jayasinghe
Faculty of Agriculture

Prof. K. Masakorala
Faculty of Science

Recipients of the Best Presenter Awards
20th Academic Sessions 2023
Technical Sessions

Technical Session	Awardee
Agriculture, Environment and Biological Sciences (Session 1)	Dr. J.M.S.N. Rathnapala <i>Department of Fisheries and Aquaculture, Faculty of Fisheries and Marine Sciences & Technology</i>
Agriculture, Environment and Biological Sciences (Session 2)	Dr. Dushan Kumarathunge <i>Department of Agricultural Biology, Faculty of Agriculture</i>
Computer Science, Information Technology and Physical Sciences	Mr. P.A.D.S.N. Wijesekara <i>Department of Electrical and Information Engineering, Faculty of Engineering</i>
Economics, Finance and Management	Dr. B.L. Galhena <i>Department of Human Resource Management, Faculty of Management and Finance</i>
Education, Humanities and Social Sciences	Dr. Wijerathne Bohingamuwa <i>Department of History and Archaeology, Faculty of Humanities & Social Sciences</i>
Engineering, Technology and Applied Sciences (Session 1)	Mr. B.G.V Sanjaya <i>Department of Civil and Environmental Engineering, Faculty of Engineering</i>
Engineering, Technology and Applied Sciences (Session 2)	Dr. N.W. Prins <i>Department of Electrical and Information Engineering, Faculty of Engineering</i>
Human Health, Pharmaceuticals and Medicine (Session 1)	Ms. W.N.D. De Silva <i>Department of Biochemistry, Faculty of Medicine</i>
	Prof. H. Harshini Peiris <i>Department of Medical Laboratory Science, Faculty of Allied Health Sciences</i>
Human Health, Pharmaceuticals and Medicine (Session 2)	Dr. T.D.K.S.C. Gunasekara <i>Faculty of Graduate Studies</i>

Recipients of the Best Presenter Awards

20th Academic Sessions 2023

Poster Sessions

Poster Session	Awardee
Agriculture, Environment and Biological Sciences	Ms. S.A.V. Pulsarie <i>Department of Chemistry, Faculty of Science</i>
Computer Science, Information Technology and Physical Sciences	Mr. H.K.I.R. Kalhara <i>Department of Electrical and Information Engineering, Faculty of Engineering</i>
Engineering, Technology and Applied Sciences	Ms. K.T.A.G. Somarathna <i>Department of Biosystems Technology, Faculty of Technology</i>
Human Health, Pharmaceuticals and Medicine	Ms. N.H.G. Isurika <i>Department of Pharmacy, Faculty of Allied Health Sciences</i>

ORAL PRESENTATIONS

Technical Session 1 : Agriculture, Environment and Biological Sciences

Venue : LT-1 FMST

Chair : Senior Prof. N.S.B.M. Atapattu

Panel Members : Senior Prof. W.T.S. Dhammini Premachandra
Senior Prof. Disna Ratnasekera
Prof. W.G. Deepthi Lakmini

Time	Abstract ID	Title and Author/s
13.00-13.15	08	Relationship among Cost of Production, Producer Price, and the Guaranteed Price of Paddy in Sri Lanka <i>S.M.S.P. Bandara, G.C. Samaraweera and T.S.L.W. Gunawardana</i>
13.15-13.30	27	Does Mowing and Plant Composition Alter the Activity of Litter Decomposition? - A Case Study on Solidago Stand Restoration Methods <i>P.C.D. Perera, I. Gruss and M. Szymura</i>
13.30-13.45	43	Analysing the Impact of Total Dry Matter on Plant Growth and Fibre Yield of Banana <i>I.C. Liyanage, S.R.W.M.C.J.K. Ranawana, H.A.S.L. Jayasinghe and P.E. Kaliyadasa</i>
13.45-14.00	50	Influence of Organic and Inorganic Soil Amendments on Temporal Improvement of Formation of Soil Aggregates in <i>Eleusine coracana</i> Cultivated Soil <i>I.S. Wijesingha and D.A.L. Leelamanie</i>
14.00-14.15	68	Healthy Ice Cream as an Alternative to Conventional Counterpart: A Conjoint Analysis of Consumer Preference <i>A.J.A.D. Amasha and N.M.N.K. Narayana</i>
14.15-14.30	05	Determination of Acute Toxicity of the Surfactant, Sodium Lauryl Sulfate on <i>Ostracod Stenocypris</i> sp. <i>S. Kajeewan, U.A.D. Jayasinghe, L. Wijewardene and H.B. Asanthi</i>
14.30-14.45	19	Evaluation of Protective Effect of <i>Poly-β-Hydroxybutyrate</i> Producing Halophilic Microorganisms on Vibrio-Challenged Artemia <i>K.A. Bandara, R. Santos and G. Van Stappen</i>
14.45-15.00	65	Preliminary study on evaluating the Possibility of starting a <i>Holothuria atra</i> farm in Point Pedro <i>J. Vaseekaran, K. Radampola and R.D.N. Wijesinghe</i>

Technical Session 2 : Education, Humanities and Social Sciences

Venue : LT-2 FMST

Chair : Prof. G.P.T. Sampath Hemakumara

**Panel Members : Ven. Dr. Koggalle Wijitha
Ven. Dr. Moragalle Ariyawansa**

Time	Abstract ID	Title and Author/s
13.00-13.15	22	A Study of "Kavadi" Dance Performance in Devinuwara Perahera Ceremony <i>L. Gamage and H.K. Pabasara</i>
13.15-13.30	41	දළදා පෙරහැරෙහි හස්ති වස්ත්‍රාභරණකරණයෙහි වන අන්‍යන්‍ය ලක්ෂණ පිළිබඳ ගවේශනාත්මක අධ්‍යයනයක් <i>පී. එස්. ගොඩකන්ද සහ එච්. පී. විමලසිරි</i>
13.30-13.45	59	Returned Female Migrant Workers: Challenges Towards Reintegration <i>K.D.D. Silva and P.R. Ekanayake</i>
13.45-14.00	63	Effectiveness of Formative Assessments for Undergraduates in Geography through Student-Centred Community-Based Studies <i>H.I.G.C. Kumara</i>
14.00-14.15	64	අලි-මිනිස් ගැටුම කෙරෙහි බලපාන ශ්‍රාමීය සමාජ, ආර්ථික හා දේශපාලන බල ව්‍යුහය සාධක <i>කේ. ජයවර්ධන, එස්. අමරසිංහ සහ එන්.වී.පී.ඒ. හේමන්ත කුමාර</i>
14.15-14.30	66	A Comparative Study of the Buddhist Attitude towards Humanistic Approach <i>A.A.R. Priyanka</i>
14.30-14.45	67	Political Literacy of Undergraduates with Special Reference to Faculty of Humanities and Social Sciences in the University of Ruhuna <i>K.T.N. De Silva and A.J. Jayasekara</i>
14.45-15.00	58	Factors Influencing LIS Academic Migration Decisions to Workplace Mobility and Overseas Departure <i>H.E.P. Mayuri and J.A. Ajith</i>

Technical Session 3 : Human Health, Pharmaceuticals and Medicine

Venue : Lecture Theatre - Department of Oceanography and Marine Geology

Chair : Prof. Thishan Channa Yahathugoda

Panel Members : Prof. E.I. Waidyaratne
Dr. Shubodha Wickramasingha

Time	Abstract ID	Title and Author/s
13.00-13.15	01	Validation of the Sinhala version of the Comprehensive Needs Assessment Tool for Informal Cancer Caregivers (S-CNAT-ICs) in Sri Lanka <i>E. Weeratunga, S. Goonewardena and L. Meegoda</i>
13.15-13.30	18	Standardization, Release Kinetics, Acute Toxicity Assessment of Nanoencapsulated Aqueous Extract of <i>Coccinia grandis</i> L. (Ivy Gourd) <i>N.D. De Silva, A.P. Attanayake, L.D.A.M. Arawwawala and K.A.P.W. Jayatilaka</i>
13.30-13.45	21	Nano-Hydroxyapatite-Enhanced PLA Microspheres - Osteogenic Potential for Bone Repair Applications <i>H.M.C.S. Wijerathne and H. Yingchao</i>
13.45-14.00	62	Prevalence of Albuminuria and Its Association with Demographic Factors in Type 2 Diabetes Mellitus Patients Attending Teaching Hospital Karapitiya <i>P.A.T.L. Sathsarani, R.M.T.M. Ramanayake and J.A.N. Sandamali</i>
14.00-14.15	20	Effectiveness and Residual Effect of <i>Bacillus thuringiensis israelensis</i> for the Control of Aedes species (<i>Diptera: Culicidae</i>) under Laboratory Condition <i>C.S. Kariyawasam and H.C.E. Wegiriya</i>
14.15-14.30	42	Differentiation of Glioma Tumor Types Using Texture Feature Analysis in MRI <i>D.L.D.T. Madushani, W.M.K. De Silva, M. Jayathilake, S.M. Vijithananda, H. Upul and T.L.A.N. Chandrasiri</i>

Technical Session 4 : Economics, Finance and Management**Venue** : Mini Lecture Theatre - Department of Fisheries & Aquaculture**Chair** : Prof. H.S.C. Perera**Panel Members** : Prof. P.A.P. Samantha Kumara
Prof. Manjula Wanniarachchige

Time	Abstract ID	Title and Author/s
13.00-13.15	24	Relationship between the factors affecting on Green Purchase Intention and Consumers' Green purchasing behavior: A study of Online Shoppers at Keells Supermarkets in Sri Lanka <i>E.K. Jayampathi and N.D. Abeynayake</i>
13.15-13.30	44	Digital Banking Practices on Customer Satisfaction. A Study of Digital Banking Practices in Bank of Ceylon in Southern Province in Sri Lanka <i>W.K.S. Dilrukshi and T.S.L.W. Gunawardana</i>
13.30-13.45	53	Influencing factors of Internet banking adoption: Reference to customers from Rathnapura District <i>E.D.I. Ishan and T.S.L.W. Gunawardana</i>
13.45-14.00	54	Consumer Awareness and Attitudes Towards Fishery By-Products <i>T.R. Wijesinghe, R.D.N. Wijesinghe and R.G. Sanuja</i>
14.00-14.15	57	The Status of E-Government Adoption: A Bibliometric Analysis <i>B.B.D.S. Abeykoon and A.B. Sirisena</i>

Technical Session 5 : Engineering, Technology and Applied Sciences

Venue : Lecture Theatre - Department of Limnology & Water Technology

Chair : Prof. G.G. Tushara Chaminda

Panel Members : Dr. Chandana Perera
Dr. Sumith Baduge

Time	Abstract ID	Title and Author/s
13.00-13.15	16	Effect of Aqua-Thermally Treated Rubber Aggregate and Waste Tire Steel Fiber on the Mechanical Properties of Rubberized Concrete <i>B.G.V Sanjaya, J.M.R.S. Appuhamy, W.M.K.R.T.W. Bandara, S. Venkatesan and R.J. Gravina</i>
13.15-13.30	28	Soil and Water Assessment Tool Applications for Hydro-environmental Assessments in Sri Lanka: A Review <i>D.M.K.P. Dissanayake, T.N. Wickramaarachchi and A.G. Jayasinghe</i>
13.30-13.45	32	Simplified Macro Modelling Approaches Simulating In-plane and Out-of-plane Interaction of Masonry-infilled Frames: A Review <i>P.W.P.B. Kumarasiri, J.M.R.S. Appuhamy and G.H.M.J.S. De Silva</i>
13.45-14.00	34	Pervious Concrete Pavements for Sustainable Stormwater Management: A Review <i>W.M.S.U. Wanasinghe, S. De Silva and L. Rajapakshe</i>
14.00-14.15	35	Benchmarking of Dam Safety Guidelines for Sri Lanka <i>G.K.P. Wickramasinghe, A. P. N. P. Chandrasena, A.G. Jayasinghe and S.W. Seneviratne</i>
14.15-14.30	60	Interaction of Digital Twin Technology to the Safety of Construction Industry: A Review <i>P.H.T. Maduranga, G.H.M.J.S. De Silva and R. Edirisinghe</i>

POSTER PRESENTATIONS

Technical Session 6 : **Poster Session - 1**
Venue : **Auditorium - FMST**
Panel Members : Prof. Chinthaka Sanath Gangabadage
 Prof. N.V.G.A. Hemantha Kumara
 Dr. Nandasiri Keembiyahetti
 Dr. Sugandima Vidanagamachchi

Time	Abstract ID	Title and Author/s
13.00-13.10	37	"GradesGo" - A Comprehensive Practical Framework for Calculating Grade One Admission Marks <i>G.S.S.S. Ganegoda, D.S. Jayakody, M.A.K. Isuranda and G. Priyankara</i>
13.10-13.20	49	පහතරට නර්තන සම්ප්‍රදායේ කපු පත්තිනිවරයෙකු ලෙස මවු බැසීමේදී සිදු කරන වාරිත්‍ර විධි පිළිබඳ විමර්ශනාත්මක අධ්‍යයනයක් <i>ජේ. ද සිල්වා සහ එස්.එම්.ඒ.පී. රත්නසිරි</i>
13.20-13.30	31	Enhancing Disaster Resilience: A Systematic Review and Integrated Framework for Sustainable Disaster Risk Reduction <i>H.A.T.N. Perera and G.Y. Jayasinghe</i>
13.30-13.40	33	Morphological Variations and Biochemical Properties of Mandarin (<i>Citrus reticulata</i>) Varieties in Sri Lanka <i>E.A.A.I.K. Edirisinghe, N. Dahanayake and R.M. Dharamadasa</i>
13.40-13.50	40	Comparative Identification of Morphological Variation of Locally Available Selected Leafy Vegetables in Low Country Intermediate Zone <i>J.O. Kaushalya, N. Dahanayake, R. Hafeel and B. Perumpuli</i>
13.50-14.00	12	Designing a Semi-Automated Mushroom poly bag filling Machine <i>A.M.M.C. Adhikari, L.N.W. Kumarathunga, B.L.M. Sandaruwan, H.M.H.P Herath, B.H.C.S. Thilakarathna, J.W.A. Madushika and K.M.W. Rajawatta</i>
14.00-14.10	11	Deep Learning-Based Optimization of Dietary Plans for Effective Weight Loss Management <i>L.R.W. Mohottala and W.A.M. Prabuddhi</i>
14.10-14.20	45	Deep Learning Based Virtual Assistant for Sinhala Speakers <i>H.M.P. Bandara, W.M.U.W. Kalyanarathne, K.K.P.M. Ranasinghe, K.L.K. Sudheera and J.C.S. Kadupitiya</i>

Technical Session 7 : Poster Session - 2

Venue : Auditorium - FMST

Panel Members : Prof. W.A. Indika
Dr. Ruwan Gallage
Dr. Thilina Weerasinghe

Time	Abstract ID	Title and Author/s
14.30-14.40	06	Mechanical Characterization of Partially Bio-degradable Coir Fiber-Reinforced Polyester Composites <i>H.M.D.S. Herath, L.E.K.M. Waruni, K.T.K.M. De Silva and M.T.T. Ranjan</i>
14.40-14.50	07	Design and Development of Water Absorptivity Measuring Instrument <i>K.C.M. Dayananda, R.A.I.S. Rajapaksha, H.M.Y.G.V.S. Senevirathne, E.G.S.S. Wanasingha and K.T.K.M. De Silva</i>
14.50-15.00	14	Application of VSLAM to a Robot Arm <i>H.M.S. Sanjaya</i>
15.00-15.10	17	Development of a Fast-Time Flight Plan Simulation Tool <i>M.A.E.M. Marasinghe, D.L.S.B. Liyanage, H.M.S. Mihihansi, G.W.G. Sahan and G.G.N. Sandamali</i>
15.10-15.20	30	Development of a Low-Cost Vehicular Communication Testbed <i>D.A.D.H.P. Dematawaarachchi, D.M.M.B. Dissananyake, K.B.S.L. Indrasiri, K.L.K. Sudheera and P.H.J. Chong</i>
15.20-15.30	38	Design and Fabrication of Maize on cob Tray Dryer <i>D.M.T.A.L. Dissanayaka, S.M. Marasinghe, P.K.M. Rajapaksha, R.M.E.C. Sandeepa, T.K.K.S. Pathmasiri and K.T.K.M. De Silva</i>
15.30-15.40	39	Performance of Rubberized Concrete When Replacing Coarse Aggregate with Chip Rubber at Lower Replacement Levels <i>H.K.P.C. Lal, B.G.V. Sanjaya and J.M.R.S. Appuhamy</i>
15.40-15.50	51	A Smart Scheduler for Combining Wi-Fi and Mobile Data for Improved Internet Speed <i>G.P. Wijesiri, N.P.P. Narangoda, M.L. Moyura and W.C.N. Dayarathna</i>
15.50-16.00	52	User-Centric Security Monitoring for IoT Devices <i>G.A.R.S. Ediriweera, E.W.T.K. Wickramadhara, R.A.A.G. Wickramasinghe and K.L.K. Sudheera</i>