

# Programme Book



## 20<sup>th</sup> Academic Sessions and 19<sup>th</sup> Vice Chancellor's Awards Ceremony

*"Intellectual and Entrepreneurial Thrust for a Resilient and  
Progressive Society"*

**07<sup>th</sup> June 2023**

Faculty of Management and Finance  
University of Ruhuna  
Matara  
Sri Lanka

## 20<sup>th</sup> Academic Sessions and 19<sup>th</sup> Vice Chancellor's Awards Ceremony

### *Agenda*

<b>Time</b>	<b>Programme</b>
08.00-08.30	Registration
08.30-08.40	Ceremonial Procession
08.40-08.45	University Anthem
08.45-08.55	Lighting of Oil Lamp
08.55-09.00	Welcome Address Dr. A.C. Karunaratne Chairperson/20 <sup>th</sup> Academic Sessions and 19 <sup>th</sup> Vice Chancellor's Awards
09.00-09.15	Address by the Guest of Honour Prof. E.P. Saman Chandana Deputy Vice Chancellor, University of Ruhuna
09.15-09.45	Best Presenter Awards, 19 <sup>th</sup> Academic Sessions
09.45-10.25	Keynote Speech "Intellectual and Entrepreneurial Thrust for a Resilient and Progressive Society" Dr. Chandra Embuldeniya Founder Vice Chancellor, Uva Wellassa University
10.25-10.50	Vice Chancellor's Awards
10.50-11.00	Cultural Event
11.00-11.30	Oration "Unraveling the mystery in search of nephroprotective therapeutics from Sri Lankan flora" Dr. A.M.S.S. Amarasiri Faculty of Allied Health Sciences, University of Ruhuna
11.30-11.55	Awarding of Professor Emeritus
11.55-12.15	Address by the Chief Guest Senior Prof. Sujeewa Amarasena Vice Chancellor, University of Ruhuna
12.15-12.25	Vote of Thanks Ms. Onandi Wijayaratne Secretary/20 <sup>th</sup> Academic Sessions and 19 <sup>th</sup> Vice Chancellor's Awards
12.25-12.30	National Anthem

*Technical Sessions will commence at 01.00 p.m. at the  
Faculty of Management and Finance*

## **Conferment of Emeritus Professorships**

**Senior Professor L.M. Abeywickrama**

*Faculty of Agriculture*

**Senior Professor C.M. Navarathna**

*Faculty of Agriculture*

**Senior Professor E.A.G. Fonseka**

*Faculty of Humanities and Social Sciences*

**Senior Professor R.P. Dharmawathie**

*Faculty of Humanities and Social Sciences*

**Professor S.K.C. Wimalasundara**

*Faculty of Medicine*

## **Recipients of the 19<sup>th</sup> Vice Chancellor's Awards-2022**

### **The Most Outstanding Scholar**

Prof. Sudhira De Silva  
*Faculty of Engineering*

### **The Most Outstanding Young Researcher**

Mr. W.A.H.M. Karunarathna  
*Faculty of Technology*

### **The Most Outstanding Student Inventor/ Innovator**

Mr. A.G.P.D. Alahakoon  
*Faculty of Graduate Studies*

### **The Highest Recipients of Grants**

Prof. W.A. Indika  
*Faculty of Science*

### **The Most Outstanding Promoter of International Relations**

Prof. D.A.L. Leelamanie  
*Faculty of Agriculture*

## Recipients of the Best Presenter Awards

### 19<sup>th</sup> Academic Sessions 2022

#### Technical Sessions

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<b>Technical Session</b>	<b>Awardee</b>
Agriculture, Environmental and Biological Science	Dr. K.S.S. Atapaththu Department of Limnology and Water Technology, Faculty of Fisheries and Marine Sciences & Technology
Computer Science and Information Technology	Ms. C.R. Liyanage Department of Information and Communication Technology, Faculty of Technology
Education, Humanities and Social Sciences	Ms. K.H. Lakmali Department of Public Policy, Faculty of Humanities and Social Sciences
Engineering, Technology and Applied Sciences	Dr. K.J.C. Kumara Department of Mechanical and Manufacturing Engineering, Faculty of Engineering
Covid-19 Issues and Solutions	Associate Prof. A. Karunanayake Department of Physiology, Faculty of Medicine
Pure Science, Mathematics and Statistics	Prof. S. Wanniarachchi Department of Chemistry, Faculty of Science
Economics, Finance and Management	Dr. B.L. Galhena Department of Human Resource Management, Faculty of Management and Finance
Human Health, Pharmaceuticals and Medicine	T.D.K.S.C. Gunasekara Department of Zoology, Faculty of Science

## Recipients of the Best Presenter Awards

### 19<sup>th</sup> Academic Sessions 2022

#### Poster Sessions

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<b>Poster Session</b>	<b>Awardee</b>
Poster Session Panel- 01 Agriculture, Environmental and Biological Science	D.K.D.G. Dissanayake Department of Chemistry, Faculty of Science
Poster Session Panel- 02 Engineering, Technology and Applied Sciences	A.W.M.A. Jayarathna Department of Engineering Technology, Faculty of Technology
Poster Session Panel- 02 Computer Science and Information Technology	O.A.S.P.O. Arachi Department of Electrical and Information Engineering, Faculty of Engineering
Poster Session Panel- 03 Engineering, Technology and Applied Sciences	H.A.K.E. Prasadika Department of Limnology and Water Technology, Faculty of Fisheries and Marine Sciences & Technology
Poster Session Panel- 03 Education, Humanities and Social Sciences	A.A.R.P. Abeysinghe Department of Mathematics, Faculty of Science
Poster Session Panel- 03 Human Health, Pharmaceuticals and Medicine	P.T. Dayawansha Department of Zoology, Faculty of Science

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# **ORAL PRESENTATIONS**

**Technical Session 1: Agriculture, Environment and Biological Sciences****Venue** : MFLT 2A**Chair** : Prof. Nalika Ranathunga**Evaluators** : Dr. Buddhika Perumpuli  
Dr. Dananjali Gamage

Time	Abstract ID	Title and Author/s
13.00-13.20	11	Isolation of Natural Antioxidants: Gallic Acid, Quercetin, and Catechin from the Sri Lankan Endemic Plant, <i>Garcinia quaesita</i> Leaves <i>S. Kokilanthan, V.P. Bulugahapitiya, H. Manawadu, and C.S. Gangabadage</i>
13.20-13.40	47	Allelopathic Effects of <i>Microcystis</i> sp. (Blue Green Algae) on <i>Scenedesmus</i> sp. (Green Algae) <i>S. Tharaka, L. Wijewardene, H.B. Asanthi, and K. Masakorala</i>
13.40-14.00	55	Morphological and Biochemical Characterization of a Representative Collection of <i>Cinnamomum verum</i> J. Presl Germplasm in Sri Lanka <i>M.R. Prathibhani, R. Azad, R.A.A.K. Ranawaka, G. Senanayake, S. Ranaweera, L. Jayasekera, G.G. Jayasinghe, and S. Geekiyanage</i>
14.00-14.20	56	Characterization and Evaluation of Two Bacterial Isolates for their Plant Growth Promoting Abilities on Rice Grown under Selected Agro Ecological Regions of Low Country Wet Zone of Sri Lanka <i>L.G.I. Chathurika, I. Mandic-Mulec, E.P. Greenberg, G. Senanayake, and S. Geekiyanage</i>
14.20-14.40	65	Genomic Characterization and Identification of Virulence Associated Genes of Isolated <i>V. nigrispulchritudo</i> <i>J.M.S.N. Rathnapala, H. Kondo, and I. Hirono</i>



## Technical Session 2: Agriculture, Environment and Biological Sciences

**Venue** : MFLT 2B

**Chair** : Dr. Chamila Wijekoon

**Evaluators** : Dr. Rajika Amarasinghe

Dr. Menaka Fernando

Time	Abstract ID	Title and Author/s
13.00-13.20	13	Thermal safety margin for plant photosynthesis constrained by temperature variability at most locations across the globe. <i>Dushan Kumarathunge, Mingkai Jiang, and Chris Huntingford</i>
13.20-13.40	28	Effect of Artificial Light Supplementation and Rate of Albert Fertilizer on Growth and Yield of Salad Cucumber Grown in Automated Protected Houses <i>U.D.T. Perera, B.C.S. Ranasinghe, S. Subasinghe, K.K.L.B. Adikaram, H.K.M.S. Kumarasinghe, and M.K.D.K. Piyaratne</i>
13.40-14.00	31	Present Status, Challenges of Insect Pest and Market Opportunities of Mushroom Cultivations in Matara District Sri Lanka <i>K.N.S. Perera and H.C.E. Wegiriya</i>
14.00-14.20	40	Growth and Yield Performances of <i>Ipomea aquatica</i> (Water Spinach) as Affected by Different Liquid Fertilizers in Static Solution Culture <i>S.W.A.M. Upamalika, S.I.S. De Silva, M.S. Jayathilaka, K.M.W. Rajawatta, W.H.N.Y. Hewage, and K.T.A.G. Ranasinghe</i>
14.20-14.40	69	Effect of Artificial Light and Rate of Albert Fertilizer on Growth and Yield of Cabbage ( <i>Brassica oleracea</i> ) under the Controlled Environmental Condition <i>U.D.T.Perera, S.Subasinghe, H.K.M.S. Kumarasinghe, K.K.L.B. Adikaram, M.K.D.K. Piyaratne, and B.C.S. Ranasinghe</i>
14.40-15.00	85	Farmers' Perception of Good Agricultural Practices (GAPs) and GAPs-based Guideline Model for Potato cultivation in Sri Lanka <i>A.T. Shanadi, G.C. Samaraweera, D.L. Wathugala, and W.A. Indika</i>

**Technical Session 3: Computer Science, Information Technology and Physical Sciences****Venue** : MFLT 5**Chair** : Prof. Leslie Jayasekara**Evaluators** : Prof. W.A. Indika  
Dr. Thilina Weerasinghe

<b>Time</b>	<b>Abstract ID</b>	<b>Title and Author/s</b>
13.00-13.20	49	Data Gathering Optimization in Hybrid Software Defined Vehicular Networks <i><u>P.A.D.S.N.Wijesekara</u>, K.L.K. Sudheera, G.G.N. Sandamali, and P.H.J. Chong</i>
13.20-13.40	50	Machine Learning based Link Stability Prediction for Routing in Software Defined Vehicular Networks <i><u>P.A.D.S.N. Wijesekara</u>, K.L.K. Sudheera, G.G.N. Sandamali, and P.H.J. Chong</i>
13.40-14.00	87	Comparative Analysis of CNN Models to Diagnose Pneumonia <i><u>R.D.N. Shakya</u>, R. Abeysekara, and R.P. Madhubhashani</i>
14.00-14.20	91	A Review on Transfer Learning Methods Used for Skin Cancer Detection <i><u>W.M.D.D.B. Wijesundara</u>, C.T. Wannige, M.K.S. Madushika, and Achala Liyanage</i>
14.20-14.40	34	ARIMA-Neural Hybrid Estimates of Inflationary Expectations: Some Evidence from Sri Lanka <i><u>W.M.S Bandara</u> and W.A.R. De Mel</i>

**Technical Session 4: Economics, Finance and Management****Venue** : New Board Room**Chair** : Dr. Chandra Embuldeniya**Evaluators** : Prof. P.A.P. Samantha Kumara

Dr. Thedushika De Silva

<b>Time</b>	<b>Abstract ID</b>	<b>Title and Author/s</b>
13.00-13.20	35	Technology Undergraduates' Crowdfunding Fundraising Intention: Study of the UTAUT Model <i>D.M.R. Deepika</i>
13.20-13.40	94	Does empathy enhance undergraduates' Pro-social behaviour? Mediating role of compassion <i>G.K.H. Ganewatta, A.H. Isuru Chandradasa, A.P.R. Patabendi, S.H. Weedyagoda, and M.R.S. Ariyawansha</i>
13.40-14.00	95	Drivers of AI-Based Voice Robots Adoption in Higher Education: A Perspective of Extended Unified Theory of Acceptance and Use of Technology <i>B.L. Galhena, A.H.I. Chandradasa, G.S.H.D. Kumari, D.M.V.P. Karunarathna, and K.W.A.S. Udayangani</i>
14.00-14.20	96	Impact of Workplace Spirituality and Organizational Citizenship Behaviour on Employees' Job Performance: With Special Reference to ABC (Pvt) Ltd, Sri Lanka. <i>J. Ramawickrama, S.V.H. Silva, A.H.I. Chandradasa, and T.D.I.J.C. Somarathna</i>
14.20-14.40	43	Waste Management Behaviour of Tea Manufacturing Industry: A Case Study of Low Country Sri Lanka <i>A.J. Jayasekara and I.G.S. Kumari</i>

**Technical Session 5: Education, Humanities and Social Sciences****Venue** : MKT Board Room**Chair** : Prof. G.P.T.S. Hemakumara**Evaluators** : Prof. Ven. Beligalle Dhammajothi  
Dr. Ven. Ariyawansa Morakandegoda

Time	Abstract ID	Title and Author/s
13.00-13.20	06	ශ්‍රී ලංකාවේ නිශ්චල වාරි උරුම සංරක්ෂණය හා කළමනාකරණය: වර්තමාන වාරි උරුම ප්‍රතිසංස්කරණ වෘත්තිකයන්ගේ දෘෂ්ඨිය පිළිබඳ අධ්‍යයනයක් <i>ඩී.සී. වික්‍රානන්ද, එස්.චාච්චගේ, ජී.සී.එල්. ගමගේ, කේ.එම්.ඒ. කපුකොටුව, එම්.පී. පෙරේරා</i>
13.20-13.40	20	Impact of Staff Assistance of Readers' Services Section on the Patrons' Satisfaction with the University of Ruhuna Library <i>J.A. Ajith</i>
13.40-14.00	52	Greta Thunberg Phenomenon and Contemporary Behaviour of Capitalism <i>H.I.G.C. Kumara and R.A.W.D. Jayawardhana</i>
14.00-14.20	60	The Plurality of Governance as a Threat to Citizenship Rights: An Investigation on Hill Country Tamils in Sri Lanka <i>S. Udayanga and H.L.S. De Zoysa</i>
14.20-14.40	76	The Perception of Physiology Hybrid Viva Voce Examination among the Medical Students sat for the Second MBBS Examination at the Faculty of Medicine, University of Ruhuna <i>A. Karunanayake, I.A. Lokunarangodage, and D.M.Y. Amarasinghe</i>
14.40-15.00	78	The Dumbara Craft Tradition and the Craftsmen (Kinnaras): An Ethnoarchaeological Investigation <i>Wijerathne Bohingamuwa</i>
15.00-15.20	86	බුද්ධකච්චුක්ඛන්ධකයෙන් ප්‍රකට වන තන්කාලීන සමාජ පසුබිම පිළිබඳ අධ්‍යයනයක් <i>පුජ්‍ය ඕපනායක උපේක්ෂා ධම්මධීරා මෙහෙණිය</i>
15.20-15.40	90	Undergraduates' Perception on Counselling: A Case of Faculty of Agriculture, University of Ruhuna <i>G.C. Samaraweera, A. Liyanage, and K.M.C. Tharupath</i>

**Technical Session 6: Engineering, Technology and Applied Sciences****Venue** : MFLT 3A**Chair** : Prof. G.G. Chaminda Tushara**Evaluators** : Dr. T.N. Wickramaarachchi  
Dr. S.N. Malkanthi

<b>Time</b>	<b>Abstract ID</b>	<b>Title and Author/s</b>
13.00-13.20	01	Use of Hybrid Conjoint Model to Elicit User Preference Towards Colombo Light Rail Transit <i>T. M. Rengarasu and M.S.C. Gunasekara</i>
13.20-13.40	17	Effect of Size and Shape of Soil-Cement Specimens on Compressive Strength <i>A.Yoganathan and N.H.Priyankara</i>
13.40-14.00	36	Review of Soil-Bentonite (SB) Cutoff Walls to Control Seepage Through Earth Dams <i>A.I. Liyanage and N.H. Priyankara</i>
14.00-14.20	44	Experimental Investigation to Evaluate the Mechanical Behaviour of Concrete Containing Waste Tire Steel Fibres <i>B.G.V.Sanjaya, J.M.R.S. Appuhamy, W.M.K.R.T.W. Bandara, S.Venkatesan, and R.J. Gravina</i>
14.20-14.40	54	Review of Load Sharing Mechanism of Piled Raft Foundation <i>D.A.P. Prasad and N.H. Priyankara</i>
14.40-15.00	61	The Behaviour of Recycled PET fibres in Cementitious Concrete: A Review <i>S.M.D.V.Suraweera, Sudhira De Silva, Champika Ellawala, and Chamila Gunasekara</i>
15.00-15.20	82	Acid Resistance and Sulphur Resistance of Rubberized Concrete- A Review <i>D.H.A. Maduranga, J.M.R.S. Appuhamy, W.M.K.R.T.W. Bandara, and T.M. Bandula Heva</i>

**Technical Session 7: Engineering, Technology and Applied Sciences****Venue** : MFLT 3B**Chair** : Prof. Chaminda Karunasena**Evaluators** : Dr. Geeth Priyankara

Mr. Saman De Silva

<b>Time</b>	<b>Abstract ID</b>	<b>Title and Author/s</b>
13.00-13.20	45	Implementation of Remote Access Capability for an Upper Limb Exoskeleton Rehabilitation Robot <i><u>S.H. Gunawardena</u>, W.A.R.S. Chularathna, S.D.L.K. Dissanayake, and J.G.M. Ariyadasa</i>
13.20-13.40	46	Experimental Setup of Computer Assisted Stroke Rehabilitation <i>S.M.M. Mazar, M.B. Wijerathne, L.B.S. Hasarangi, R.A.E. Maduwanthi, K.D. Pathirana, and <u>N.W. Prins</u></i>
13.40-14.00	48	Return to Zero Patchwork Method in the Audio Watermarking System <i><u>T.H. Nagahawaththa</u>, C.K.W. Senevirathne, N.M. Wagarachchi, and R. Withanawasam</i>
14.00-14.20	68	Athlete Workload Evaluation Platform using Wearable Sensor Network <i>I.A.P.J Illangakone, T.D Kalupahana, G.G.N. Madhushan, S.H. Gunawardena, and <u>N.W. Prins</u></i>
14.20-14.40	71	Designing and Testing of an Optical Tube Assembly for Commercial-grade Reflector Telescopes <i>N.S.D. Withanage, <u>K.G. Samarathna</u>, H.D.S. Amaradasa, K.V.S. Prasadh, and G.D.K. Mahanama</i>
14.40-15.00	83	Concentrated Solar Power Water Heater with Evacuated Tube Receiver for Domestic Applications <i>N.K. Hettiarachchi, D.D.S.J. Bandara, A.C.P.D. Gunasekara, G.M.S. Weerasekara, and S. Witharana</i>
15.00-15.20	89	A Brief Comparison of the Different Bioprinting Techniques <i><u>J.G. Varuna Priyanka</u>, Sumith Baduge, U.I.K. Galappaththi, and Sameera Samarakoon</i>
15.20-15.40	93	Power Extraction of a Solar PV Module using Photocurrent Based RBF Neural Network <i>K.J.C. Kumara, K.M.I.U. Ranaweera, and M.H.M.R.S. Dilhani</i>

**Technical Session 8: Human Health, Pharmaceuticals and Medicine****Venue** : MFLT 7A**Chair** : Prof. E.I. Waidyarathne**Evaluators** : Prof. Manjula Hettiarachchi

Dr. L.B. Lahiru Prabodha

Time	Abstract ID	Title and Author/s
13.00-13.20	07	A Conformationally constrained Peptide binder against Human Cytotoxic T-lymphocyte Antigen-4 (CTLA-4) <i>Ramanayake Mudiyansele, T.M.R., Daisuke, F., Sugiura, K., and Fujii, I.</i>
13.20-13.40	23	<i>In vitro</i> Release of Polyphenols from Different Extracts of <i>Coccinia grandis</i> L. Encapsulated Alginate Nanoparticles <i>W.N.D. De Silva, A.P. Attanayake, L.D.A.M. Arawwawala, D.N. Karunaratne, and G.K. Pamunuwa</i>
13.40-14.00	38	Herbal Extracts Encapsulated Gelatin Nanoparticles as Potential Glucose-Lowering Agents <i>A.S.D. Wickramasinghe, A.P. Attanayake, and P. Kalansuriya</i>
14.00-14.20	39	Impact of Tumour Infiltrating Lymphocytes on the Recurrence Free Survival of Breast Cancer Patients; a Cohort Study <i>G.S. Hettiarachchi, H.H. Peiris, and L.K.B. Mudduwa</i>
14.20-14.40	72	Antibiotic Sensitivity of Multidrug Resistant Bacteria isolated among Patients Admitted to a Tertiary Care Centre in Southern Sri Lanka <i>S. S. Wickramasinghe, H. Wickramasuriya, D. L. B. Piyasiri, P. T. A. Thilakarathna, A.de S. Nagahawatte, G. B. Wijayaratne, N. P. Weerasinghe, S. Gunasena, and H. Thabrew</i>
14.40-15.00	77	In-vitro Virucidal and Anti-adsorption Activities of Dried Flowers Extract of <i>Aegle marmelos</i> against Dengue Virus Type 1 <i>K.G. Jayasekara, S.S.S.B.D.P. Soysa, T.S. Suresh, C.L. Goonasekara, and K.M. Gunasekera</i>

**Technical Session 9: Human Health, Pharmaceuticals and Medicine****Venue** : MFLT 7B**Chair** : Prof. R.S. Janaka Lenora**Evaluators** : Prof. Channa Yahathugoda  
Dr. B.I. Wickramarachchi

Time	Abstract ID	Title and Author/s
13.00-13.20	14	Does Environmental Heat Exposure during Outdoor Sports Practices Affect Kidney Health of School Students? <i>T.D.K.S.C. Gunasekara, P. Mangala C.S. De Silva, E.P.S. Chandana, S.S. Jayasinghe, C. Herath, S. Siribaddana, and N. Jayasundara</i>
13.20-13.40	15	Comparative Analysis of Urinary Fluoride Excretion and Kidney Health among Children in Rural Sri Lanka. A Cross-Sectional Study <i>P.M.M.A. Sandamini, P.M.C.S. De Silva, E.P.S. Chandana, S.S. Jayasinghe, C. Herath, and E.S. Wijewickrama</i>
13.40-14.00	37	Real-World Use of Trans-Radial Protheses and Their Involvement in Activities of Daily Living Among Upper Limb Amputees in Sri Lanka: A Pilot Study <i>N.C. Gunarathne, N. Marshall, and B. Panagamuwa</i>
14.00-14.20	74	Demographic and Clinical Factors Associated with Oral Candidiasis among Patients with Cancer at Teaching Hospital, Karapitiya <i>D.N. Wanigasekara, S.S. Wickramasinghe, G.B. Wijyaratne, and M.T. Napagoda</i>
14.20-14.40	88	Effectiveness of an Educational Intervention on Knowledge and Attitudes towards COVID-19 Vaccination: An Interventional Survey in Faculty of Allied Health Sciences, University of Ruhuna <i>T.L.I. Srilal, H.W.A.S. Subasinghe, W.S.S. Madushika, H.K.J. Dhanarisi, and V.M. Pathiraja</i>



# **POSTER PRESENTATIONS**

## Technical Session 1: Agriculture, Environment and Biological Sciences

**Venue** : will be notified (at the premises of the FMF)

**Evaluators** : Prof. Deepthi Lakmini Wathugala  
Dr. Amani Mannakkara

Abstract ID	Title and Author/s
04	Comparison of Two Male Morphs of <i>Asymmetricata humeralis</i> Walker (Coleoptera: Lampyridae) from a mangrove associated habitat in Galle, Southern, Sri Lanka <i>Wijekoon W.M.C.D. and Wegiriya H.C.E</i>
16	Species Composition, Diversity, and Distribution of Mosquitoes (Diptera: Culicidae) in Kalutara District, Sri Lanka <i>C.S. Kariyawasam and H.C.E.Wegiriya</i>
26	Screening and Evaluation of Endophytic Fungi from Selected Invasive Plants and Their Potential Applications in Biotransformation and Biodegradation <i>S.A.V. Pulsarie, V.P. Bulugahapitiya, K.A.S. Kodikara, and H.C. Manawadu</i>
32	Development of Rhizomes of <i>Nymphaea</i> spp. as Functional Foods to be used as Health Beneficiary Products <i>H.D. Jayasekara, L.T.D. Jayasekara, and V.P. Bulugahapitiya</i>
63	Rooting of Salad Cucumber ( <i>Cucumis sativus</i> L.) Cuttings as Affected by Cutting Position and Growing Media <i>U. D. T. Perera, S. Subasinghe, K.K.L.B. Adikaram, M.K.D.K. Piyaratne, and H.K.M.S. Kumarasinghe</i>
64	Effect of Plant Growth Regulators on Growth and Yield of Soybean ( <i>Glycine max</i> ) <i>H.K.M.S. Kumarasinghe and P.G.W.M. Amarawansa</i>
66	Metazoan Gill Parasites of <i>Etroplus suratensis</i> In Two Selected Lagoons in Southern Province of Sri Lanka: a Preliminary Study <i>B.M.K.M.T. Siriwardane, K.A.M. Sudarshanie, and K.B.S. Gunawickrama</i>
67	Effects of Exposure to Ibuprofen and Acetaminophen Mixtures in <i>Oreochromis niloticus</i> Juveniles <i>A.R.O.G. Athauda, S.H.N.P. Gunawickrama, and K.B.S. Gunawickrama</i>
97	Antibiotic Resistance of Bacteria in Water from Ornamental Fish Farms and Aquariums, Matara, Sri Lanka <i>R.M.U.A.D. Rathnayake, E.G.K.Y.C. Bandara, and K.H.M.A. Deepananda</i>

**Technical Session 2: Computer Science, Information Technology and Physical Sciences****Venue** : will be notified (at the premises of the FMF)**Evaluators** : Prof. B.G.S.A. Pradeep  
Dr. C.T. Wannige

<b>Abstract ID</b>	<b>Title and Author/s</b>
19	Deep Learning based Sinhala Virtual Assistant <i>L.R.L.D. Siwurathna, H.K.I.R. Kalhara, M.D.A. Perera, K.L. Kushan Sudheera, W.G.C.A. Sankalpa, and J.C.S Kadupitiya</i>
27	Identifying Less Quality Burnt Clay Bricks using Image Processing <i><u>K.K.C. Lakmali</u> and W.A.M. Prabuddhi</i>
73	Deep Learning Based Plant Nutrition Deficiency Identification in Hydroponic Garden <i><u>R.D.N. Shaky</u>a and K.P.C.T. Pathirana</i>
75	Enhancing the Safety and Security of Digital Identities in Crisis Situations through Digital Pass Generator and Authenticator <i><u>K.K.P.M. Ranasinghe</u>, H.M.P. Bandara, S.B.N.M. Sabaragamuwa, S.D.H.C. Gunawardhana, K.L.K. Sudheera, and D. Wasana</i>
81	TickBid: A Web Application to Sell, Buy or Bid on Event Tickets <i><u>P.M.S.L Pathiraja</u>, P.M. Amarasingha, T.M.R.N. Thennakoon, W.M.A. Wanigasundara, K.L.K. Sudheera, and D. Wasana</i>

### Technical Session 3: Engineering, Technology and Applied Sciences

**Venue** : will be notified (at the premises of the FMF)

**Evaluators** : Dr. Ruwan Gallage  
Dr. Wathsala Rajawatta

Abstract ID	Title and Author/s
09	Design a Small-Scale Ecology Unit for Domestic Purposes <i>B.A.C.L. Dharmasena, J.G.P. Devindi, R.C.I. Silva, and K.T.K.M. De Silva</i>
18	Treatment of used Metal Working Fluids for Environment-Friendly Disposing <i>G.I.P. Perera, V. De Silva, W.A.W. Prasad, U.A.D.N. Lakmali, and M.A.K.J. Weerasuriya</i>
24	Palm Oil as an Engine Oil in Single Cylinder Tractor <i>N.M.C.H. Bandara, D.V.G. Maduranga, B.M.J.S. Balasooriya, T.K.K.S. Pathmasiri, and G.I.P. Perera</i>
33	Investigation of Physical Properties of Silver Nanoparticles Grown on Glass Substrate using Physical Vapor Deposition <i>R.K. Yahathugoda and H.A.D.S.D. Perera</i>
41	Modelling and Three-Dimensional Flight Dynamics Simulation of the 'V' Shape Boomerang <i>R. Ratheesan, B. Annasiwatta, K.J.C Kumara, and B. Sumith</i>
51	Effect of Oscillating the Camera in a VSLAM-guided Robot Travelling on a Circular Path <i>H.M. Supun Sanjaya</i>
58	Developing a Methodology for the Utilization of Thread Wastes for Carpet Manufacturing <i>I.H.K.N. Priyantha, D.N.Liyanage, M.B.A.Deemantha, and N.V.P.M.Erandaka</i>
80	Screening <i>In vitro</i> Antimicrobial Activity and Green Synthesis of Silver Nanoparticles from the Selected Crude Extractions of the Sri Lankan Medicinal Plant ' <i>Vernonia zeylanica</i> ' <i>K.T.A.G. Somarathna, Tharshigah Kanagarajah, M.N Ranaweera, A.P. Henagamage, K.H.T. Karunarathna, W.K.S. Wadduwage, S.H. Thewarapperuma, M.M.D.P. Maheepala, K.G.A.A.T.S. Gunarathna, R.M.H.L. Rathnayaka, N.A.U.K. Gunasekara, K.S. Kavindya, R.M.T. Sewwandi, and W.S.W. Sewwandi</i>

**Technical Session 4:** Human Health, Pharmaceuticals and Medicine

**Venue** : will be notified (at the premises of the FMF)

**Evaluators** : Prof. Amaranath Karunanayake  
Prof. Harshini Peris

<b>Abstract ID</b>	<b>Title and Author/s</b>
21	Perception and Practices towards Storage, Disposal and Misuse of Pharmaceutical Waste in Households amongst the Staff Working at Dhakshinapaya Ministry Complex, Galle <i><u>N.K.P.G. Chandrasena</u>, K.D.S.V. Karunanayaka, and S. Gunewardena</i>
29	Determination of in-vitro antimicrobial efficacy of commercially available generic and branded oral antibiotic suspensions in Galle, Sri Lanka against selected pathogens <i><u>R.S.B. Karunaratna</u>, K.D.S.V. Karunanayaka, and W.M.D.G.B. Wijyaratne</i>
59	Serum Aldosterone Levels in the Patients with Chronic Kidney Disease of Uncertain Etiology <i><u>W.B.N.T. Fernando</u>, H.G.N. Erandika, and N. Nanayakkara</i>
70	Household Storage Methods and the Stability of Medicines in Tropical Countries: A Narrative Review <i><u>N.H.G. Isurika</u>, M. Jayasinghe, and A.S. Dissanayake</i>
84	Relationship between the Price & Quality of Medicines: Narrative Review <i><u>A.A.D.S. Jithma</u>, M. Jayasinghe, and A.S. Dissanayake</i>