Programme Book

20th Academic Sessions and
19th Vice Chancellor’s Awards Ceremony

“Intellectual and Entrepreneurial Thrust for a Resilient and Progressive Society”

07th June 2023

Faculty of Management and Finance
University of Ruhuna
Matara
Sri Lanka
**20th Academic Sessions and 19th Vice Chancellor’s Awards Ceremony**

*Agenda*

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

*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 19th 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

## 19th Academic Sessions 2022

### Technical Sessions

<table>
<thead>
<tr>
<th>Technical Session</th>
<th>Awardee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, Environmental and Biological Science</td>
<td>Dr. K.S.S. Atapaththu&lt;br&gt;Department of Limnology and Water Technology, Faculty of Fisheries and Marine Sciences &amp; Technology</td>
</tr>
<tr>
<td>Computer Science and Information Technology</td>
<td>Ms. C.R. Liyanage&lt;br&gt;Department of Information and Communication Technology, Faculty of Technology</td>
</tr>
<tr>
<td>Education, Humanities and Social Sciences</td>
<td>Ms. K.H. Lakmali&lt;br&gt;Department of Public Policy, Faculty of Humanities and Social Sciences</td>
</tr>
<tr>
<td>Engineering, Technology and Applied Sciences</td>
<td>Dr. K.J.C. Kumara&lt;br&gt;Department of Mechanical and Manufacturing Engineering, Faculty of Engineering</td>
</tr>
<tr>
<td>Covid-19 Issues and Solutions</td>
<td>Associate Prof. A. Karunananayake&lt;br&gt;Department of Physiology, Faculty of Medicine</td>
</tr>
<tr>
<td>Pure Science, Mathematics and Statistics</td>
<td>Prof. S. Wanniarachchi&lt;br&gt;Department of Chemistry, Faculty of Science</td>
</tr>
<tr>
<td>Economics, Finance and Management</td>
<td>Dr. B.L. Galhena&lt;br&gt;Department of Human Resource Management, Faculty of Management and Finance</td>
</tr>
<tr>
<td>Human Health, Pharmaceuticals and Medicine</td>
<td>T.D.K.S.C. Gunasekara&lt;br&gt;Department of Zoology, Faculty of Science</td>
</tr>
</tbody>
</table>
## Recipients of the Best Presenter Awards
### 19th Academic Sessions 2022
#### Poster Sessions

<table>
<thead>
<tr>
<th>Poster Session</th>
<th>Awardee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poster Session Panel- 01</td>
<td>D.K.D.G. Dissanayake</td>
</tr>
<tr>
<td>Agriculture, Environmental and Biological Science</td>
<td>Department of Chemistry, Faculty of Science</td>
</tr>
<tr>
<td>Poster Session Panel- 02</td>
<td>A.W.M.A. Jayarathna</td>
</tr>
<tr>
<td>Engineering, Technology and Applied Sciences</td>
<td>Department of Engineering Technology, Faculty of Technology</td>
</tr>
<tr>
<td>Poster Session Panel- 02</td>
<td>O.A.S.P.O. Arachi</td>
</tr>
<tr>
<td>Computer Science and Information Technology</td>
<td>Department of Electrical and Information Engineering, Faculty of Engineering</td>
</tr>
<tr>
<td>Poster Session Panel- 03</td>
<td>H.A.K.E. Prasadika</td>
</tr>
<tr>
<td>Engineering, Technology and Applied Sciences</td>
<td>Department of Limnology and Water Technology, Faculty of Fisheries and Marine Sciences &amp; Technology</td>
</tr>
<tr>
<td>Poster Session Panel- 03</td>
<td>A.A.R.P. Abeysinghe</td>
</tr>
<tr>
<td>Education, Humanities and Social Sciences</td>
<td>Department of Mathematics, Faculty of Science</td>
</tr>
<tr>
<td>Poster Session Panel- 03</td>
<td>P.T. Dayawansha</td>
</tr>
<tr>
<td>Human Health, Pharmaceuticals and Medicine</td>
<td>Department of Zoology, Faculty of Science</td>
</tr>
</tbody>
</table>
ORAL PRESENTATIONS
### Technical Session 1: Agriculture, Environment and Biological Sciences

**Venue**: MFLT 2A  
**Chair**: Prof. Nalika Ranathunga  
**Evaluators**: Dr. Buddhika Perumpuli  
Dr. Dananjali Gamage

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 13.00-13.20 | 11          | Isolation of Natural Antioxidants: Gallic Acid, Quercetin, and Catechin from the Sri Lankan Endemic Plant, *Garcinia quaesita* Leaves  
* S. Kokilananthan, V.P. Bulugahapitiya, H. Manawadu, and C.S Gangabadage                                                                 |
| 13.20-13.40 | 47          | Allelopathic Effects of *Microcystis* sp. (Blue Green Algae) on *Scenedesmus* sp. (Green Algae)  
* S. Tharaka, L. Wijewardene, H.B. Asanthi, and K. Masakorala                                                                                      |
| 13.40-14.00 | 55          | Morphological and Biochemical Characterization of a Representative Collection of Cinnamomum verum J. Presl Germplasm in Sri Lanka  
| 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  
* L.G.I. Chathurika, I. Mandic-Mulec, E.P.Greenberg, G.Senanayake, and S.Geekiyanage                                                                     |
| 14.20-14.40 | 65          | Genomic Characterization and Identification of Virulence Associated Genes of Isolated *V. nigripulchritudo*  
* J.M.S.N. Rathnapala, H. Kondo, and I. Hirono                                                                                                           |
Technical Session 2: Agriculture, Environment and Biological Sciences

Venue: MFLT 2B

Chair: Dr. Chamila Wijekoon

Evaluators: Dr. Rajika Amarasinghe
Dr. Menaka Fernando

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 13.00-13.20 | 13          | Thermal safety margin for plant photosynthesis constrained by temperature variability at most locations across the globe. 
*Dushan Kumarathunge, Mingkai Jiang, and Chris Huntingford* |
| 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 
| 13.40-14.00 | 31          | Present Status, Challenges of Insect Pest and Market Opportunities of Mushroom Cultivations in Matara District Sri Lanka 
*K.N.S. Perera and H.C. Wegiriya* |
| 14.00-14.20 | 40          | Growth and Yield Performances of *Ipomea aquatica* (Water Spinach) as Affected by Different Liquid Fertilizers in Static Solution Culture 
| 14.20-14.40 | 69          | Effect of Artificial Light and Rate of Albert Fertilizer on Growth and Yield of Cabbage (*Brassica oleracea*) under the Controlled Environmental Condition 
| 14.40-15.00 | 85          | Farmers' Perception of Good Agricultural Practices (GAPs) and GAPs-based Guideline Model for Potato cultivation in Sri Lanka 
*A.T. Shanadi, G.C. Samaraweera, D.L. Wathugala, and W.A. Indika* |
### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 13.00-13.20| 49          | Data Gathering Optimization in Hybrid Software Defined Vehicular Networks  
*P.A.D.S.N Wijesekara, K.L.K. Sudheera, G.G.N. Sandamali, and P.H.J. Chong* |
*P.A.D.S.N Wijesekara, K.L.K. Sudheera, G.G.N. Sandamali, and P.H.J. Chong* |
| 13.40-14.00| 87          | Comparative Analysis of CNN Models to Diagnose Pneumonia  
*R.D.N. Shakya, R. Abeysekara, and R.P. Madhubhashani* |
| 14.00-14.20| 91          | A Review on Transfer Learning Methods Used for Skin Cancer Detection  
*W.M.S Bandara and W.A.R. De Mel* |
### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 13.00-13.20| 35          | Technology Undergraduates' Crowdfunding Fundraising Intention: Study of the UTAUT Model  
D.M.R. Deepika |
| 13.20-13.40| 94          | Does empathy enhance undergraduates' Pro-social behaviour? Mediating role of compassion  
G.K.H. Ganewatta, A.H. Isuru Chandradasa, A.P.R. Patabendi,  
S.H. Weediyagoda, and M.R.S. Ariyawansha |
| 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  
B.L. Galhena, A.H.I. Chandradasa, G.S.H.D. Kumari, D.M.V.P. Karunarathna, and K.W.A.S. Udayangani |
A.J. Jayasekara and I.G.S. Kumari |
**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

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.00-13.20</td>
<td>06</td>
<td>නෑවවරොද සිසු නිසා වන පළූය නවකම් විශේෂ: ප්‍රමාණය ශිල්පිණීමයේ මීටරකම නවකම් ප්‍රමාණයේ මීටරකම් වසමකමේද ප්‍රමාණයන්.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>උ.ස්. ආංශ්‍යන්, අ.ම.ම.මන්, සැ.ස්.මි.මන්, ය.ම.ය.ම්.මන්, අ.ම.ම්.මන්.</td>
</tr>
<tr>
<td>13.20-13.40</td>
<td>20</td>
<td>Impact of Staff Assistance of Readers’ Services Section on the Patrons’ Satisfaction with the University of Ruhuna Library</td>
</tr>
<tr>
<td></td>
<td></td>
<td>J.A. Ajith</td>
</tr>
<tr>
<td>13.40-14.00</td>
<td>52</td>
<td>Greta Thunberg Phenomenon and Contemporary Behaviour of Capitalism</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H.I.G.C. Kumara and R.A.W.D. Jayawardhana</td>
</tr>
<tr>
<td>14.00-14.20</td>
<td>60</td>
<td>The Plurality of Governance as a Threat to Citizenship Rights: An Investigation on Hill Country Tamils in Sri Lanka</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S. Udayanga and H.L.S. De Zoysa</td>
</tr>
<tr>
<td>14.20-14.40</td>
<td>76</td>
<td>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</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A. Karunananayake, I.A. Lokunarangodage, and D.M.Y. Amarasinghe</td>
</tr>
<tr>
<td>14.40-15.00</td>
<td>78</td>
<td>The Dumbara Craft Tradition and the Craftsmen (Kinnaras): An Ethnoarchaeological Investigation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wijerathne Bohingamuwa</td>
</tr>
<tr>
<td>15.00-15.20</td>
<td>86</td>
<td>ප්‍රමාණයක් අරමුෂයේ ප්‍රමාණයක් විශේෂ: ප්‍රමාණය අරමුෂයක් කාලයක් විශේෂ.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ආමුරීසිය විශේෂ ප්‍රමාණයක් අරමුෂයක්.</td>
</tr>
<tr>
<td>15.20-15.40</td>
<td>90</td>
<td>Undergraduates’ Perception on Counselling: A Case of Faculty of Agriculture, University of Ruhuna</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G.C. Samaraweera, A. Liyanage, and K.M.C. Tharupath</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 13.00-13.20   | 01          | Use of Hybrid Conjoint Model to Elicit User Preference Towards Colombo Light Rail Transit  
*T.M. Rengarasu and M.S.C. Gunasekara* |
| 13.20-13.40   | 17          | Effect of Size and Shape of Soil-Cement Specimens on Compressive Strength  
*A.Yoganathan and N.H.Priyankara* |
| 13.40-14.00   | 36          | Review of Soil-Bentonite (SB) Cutoff Walls to Control Seepage Through Earth Dams  
*A.I. Liyanage and N.H. Priyankara* |
| 14.00-14.20   | 44          | Experimental Investigation to Evaluate the Mechanical Behaviour of Concrete Containing Waste Tire Steel Fibres  
| 14.20-14.40   | 54          | Review of Load Sharing Mechanism of Piled Raft Foundation  
*D.A.P. Prasad and N.H. Priyankara* |
| 14.40-15.00   | 61          | The Behaviour of Recycled PET fibres in Cementitious Concrete: A Review  
*S.M.D.V.Suraweera, Sudhira De Silva, Champika Ellawala, and Chamila Gunasekara* |
| 15.00-15.20   | 82          | Acid Resistance and Sulphur Resistance of Rubberized Concrete- A Review  
Technical Session 7: Engineering, Technology and Applied Sciences
Venue: MFLT 3B
Chair: Prof. Chaminda Karunasena
Evaluators: Dr. Geeth Priyankara, Mr. Saman De Silva

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
*S.H. Gunawardena, W.A.R.S. Chularathna, S.D.L.K. Dissanayake, and J.G.M. Ariyadasa* |
| 13.20-13.40| 46          | Experimental Setup of Computer Assisted Stroke Rehabilitation  
*S.M.M. Mazar, M.B. Wijerathne, L.B.S. Hasarangi, R.A.E. Maduwanthi, K.D. Pathirana, and N.W. Prins* |
| 13.40-14.00| 48          | Return to Zero Patchwork Method in the Audio Watermarking System  
*T.H. Nagahawaththa, C.K.W. Senevirathne, N.M. Wagarachchi, and R. Withanawasam* |
| 14.00-14.20| 68          | Athlete Workload Evaluation Platform using Wearable Sensor Network  
*I.A.P.J Illangakone, T.D Kalupahana, G.G.N. Madhushan, S.H. Gunawardena, and N.W. Prins* |
| 14.20-14.40| 71          | Designing and Testing of an Optical Tube Assembly for Commercial-grade Reflector Telescopes  
*N.S.D. Withanage, K.G. Samararathna, H.D.S. Amaradasa, K.V.S. Prasad, and G.D.K. Mahanama* |
| 14.40-15.00| 83          | Concentrated Solar Power Water Heater with Evacuated Tube Receiver for Domestic Applications  
*N.K. Hettiarachchi, D.D.S.J. Bandara, A.C.P.D. Gunasekara, G.M.S. Weerasekara, and S. Witharana* |
| 15.00-15.20| 89          | A Brief Comparison of the Different Bioprinting Techniques  
*J.G. Varuna Priyanka, Sumith Baduge, U.I.K. Galappaththi, and Sameera Samarakoon* |
| 15.20-15.40| 93          | Power Extraction of a Solar PV Module using Photocurrent Based RBF Neural Network  
*K.J.C. Kumara, K.M.I.U. Ranaweera, and M.H.M.R.S. Dilhani* |
## Technical Session 8: Human Health, Pharmaceuticals and Medicine

**Venue**: MFLT 7A  
**Chair**: Prof. E.I. Waidyaratne  
**Evaluators**: Prof. Manjula Hettiarchchi, Dr. L.B. Lahiru Prabodha

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 13.00-13.20 | 14          | Does Environmental Heat Exposure during Outdoor Sports Practices Affect Kidney Health of School Students?  
*P.M.M.A. Sandamini, P.M.C.S. De Silva, E.P.S. Chandana, S.S. Jayasinghe, C. Herath, and E.S. Wijewickrama* |
| 13.40-14.00 | 37          | Real-World Use of Trans-Radial Prostheses and Their Involvement in Activities of Daily Living Among Upper Limb Amputees in Sri Lanka: A Pilot Study  
*N.C. Gunarathne, N. Marshall, and B. Panagamuwa* |
| 14.00-14.20 | 74          | Demographic and Clinical Factors Associated with Oral Candidiasis among Patients with Cancer at Teaching Hospital, Karapitiya  
*D.N. Wanigasekara, S.S. Wickramasinghe, G.B. Wijayarathne, and M.T. Napagoda* |
| 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  
*T.L.I. Srilal, H.W.A.S. Subasinghe, W.S.S. Madushika, H.K.J. Dhanarisi, and V.M. Pathiraja* |
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

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

<table>
<thead>
<tr>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 19          | Deep Learning based Sinhala Virtual Assistant  
| 27          | Identifying Less Quality Burnt Clay Bricks using Image Processing  
K.K.C. Lakmali and W.A.M. Prabuddhi |
| 73          | Deep Learning Based Plant Nutrition Deficiency Identification in Hydroponic Garden  
R.D.N. Shakya and K.P.C.T. Pathirana |
| 75          | Enhancing the Safety and Security of Digital Identities in Crisis Situations through Digital Pass Generator and Authenticator  
| 81          | TickBid: A Web Application to Sell, Buy or Bid on Event Tickets  
P.M.S.L. Pathiraja, P.M. Amarasingha, T.M.R.N. Thennakoon, W.M.A. Wanigasundara, K.L.K. Sudheera, and D. Wasana |
### Technical Session 3: Engineering, Technology and Applied Sciences

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

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

<table>
<thead>
<tr>
<th>Abstract ID</th>
<th>Title and Author/s</th>
</tr>
</thead>
</table>
| 09 | Design a Small-Scale Ecology Unit for Domestic Purposes  
| 18 | Treatment of used Metal Working Fluids for Environment-Friendly Disposing  
*G.I.P. Perera, V. De Silva, W.A.W. Prasad, U.A.D.N. Lakmali, and M.A.K.J. Weerasuriya* |
| 24 | Palm Oil as an Engine Oil in Single Cylinder Tractor  
| 33 | Investigation of Physical Properties of Silver Nanoparticles Grown on Glass Substrate using Physical Vapor Deposition  
*R.K. Yahathugoda and H.A.D.S.D. Perera* |
| 41 | Modelling and Three-Dimensional Flight Dynamics Simulation of the 'V' Shape Boomerang  
*R. Ratheesan, B. Annasiwatta, K.J.C Kumara, and B. Sumith* |
| 51 | Effect of Oscillating the Camera in a VSLAM-guided Robot Travelling on a Circular Path  
*H.M. Supun Sanjaya* |
| 58 | Developing a Methodology for the Utilization of Thread Wastes for Carpet Manufacturing  
*I.H.K.N. Priyantha, D.N.Liyanage, M.B.A.Deemantha, and N.V.P.M Erandaka* |
| 80 | Screening In vitro Antimicrobial Activity and Green Synthesis of Silver Nanoparticles from the Selected Crude Extractions of the Sri Lankan Medicinal Plant ‘Vernonia zeylanica’  
**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

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