

14TH INTERNATIONAL RESEARCH CONFERENCE

“ Security, Stability and National Development in the New Normal ”

09TH - 10TH SEPTEMBER 2021

PROGRAMME BOOK





14TH INTERNATIONAL RESEARCH CONFERENCE

Security, Stability and National Development in the New Normal

Programme Book



General Sir John Kotelawala Defence University Ratmalana, Sri Lanka.

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INAUGURAL SESSION

9th September 2021

VENUE: Auditorium - Faculty of Graduate Studies (FGS)

0730 – 0830 Hrs	Registration
0845 – 0850 Hrs	Arrival of the Chief Guest
0850 – 0900 Hrs	Inauguration
0900 – 0915 Hrs	Welcome Address Major General Milinda Peiris RWP RSP VSV USP ndc psc MPhil (Ind) Vice Chancellor – General Sir John Kotelawala Defence University
0915 – 0935 Hrs	Introduction to the Chief Guest/Keynote Speaker Speech of the Chief Guest/Keynote Speaker Mr Lalith Weeratunga Principal Advisor to His Excellency the President of Sri Lanka
0935 – 0950 Hrs	Speech of the Secretary, Ministry of Defence General GDH Kamal Gunaratne (Retd) WWV RWP RSP USP ndc psc MPhil Secretary – Ministry of Defence
0950 – 1000 Hrs	Vote of Thanks Dr Harinda Vidanage Conference Chair – IRC 2021
1000 – 1015 Hrs	Group Portrait
1015 – 1030 Hrs	Refreshments

PLENARY SESSIONS

9th September 2021

DEFENCE AND STRATEGIC STUDIES – I

Theme: Security, Stability and National Development in the New Normal

Venue: Auditorium, Faculty of Graduate Studies

Chairperson	Professor Rohan Gunaratna Director General Institute of National Security Studies
1030 – 1035 Hrs	Introduction of the Chairperson
1035 – 1040 Hrs	Preliminary Remarks by the chairperson
1040 – 1055 Hrs	Professor Roger Kangas Dean, Near East South Asia Center for Strategic Studies, NDU, Washington DC. USA.
1055 – 1110 Hrs	Mr Nitin A Gokhale Senior Defence Analyst Editor – in Chief, Stratnewsglobal.com, India
1110 – 1125 Hrs	Dr Asma Shakir Khawaja Head, Department of Strategic Studies National Defence University, Pakistan
1125 – 1140 Hrs	Professor Shahab Enam Khan Professor in International Relations Jahangirnagar University, Bangladesh.
1140 – 1155 Hrs	Air Marshal D Choudhury AVSM VM VSM Commandant, National Defence College, India
1155 – 1210 Hrs	VADM Prof Dr Ir Amarulla Octavian ST MSc DESD Rector of the Republic of Indonesia Defense University
1210 – 1240 Hrs	Question and Answer Session
1240 – 1245 Hrs	Summing Up by the Session Chair
1245 – 1330 Hrs	Lunch

DEFENCE AND STRATEGIC STUDIES – II

Theme: Security, Stability and National Development in the New Normal

Venue: Main Auditorium, Academic Building

Chairperson	Amb (Retd.) Bernard Goonetilleke Chairman, Pathfinder Foundation
1330 – 1335 Hrs	Introduction of the Chairperson
1335 – 1340 Hrs	Preliminary Remarks by the chairperson
1340 – 1355 Hrs	Associate Professor Mohd Mizan Bin Mohammad Aslam Professor in Security Studies, Naif Arab University for Security Sciences, Saudi Arabia.
1355 – 1410 Hrs	Dr Rajeswari Pillai Rajagopalan Director of the Centre for Security, Strategy and Technology in Observer Research Foundation, India.
1410 – 1425 Hrs	Professor Girish Ram Kumar Department of Political Science, University of Kerala, India
1425 – 1440 Hrs	Associate Professor David B Des Roches Near East South Asia Center for Strategic Studies, National Defence University, Washington DC, USA.
1440 – 1455 Hrs	Assistant Professor Maria Saifuddin Effendi Department of Peace and Conflict Studies, National Defence University, Pakistan.
1455 – 1525 Hrs	Question and Answer Session
1525 – 1535 Hrs	Summing Up by the Session Chair
1535 – 1600 Hrs	Refreshments
1600 – 1700 Hrs	Evaluation of Poster Presentations

MEDICINE

Theme: Towards a Robust Healthcare Amidst Mitigating
Pandemic Challenges

Venue: Mini-Lecture Theatre, 4th Floor, Faculty of Medicine

Co - Chairperson	<p>Senior Professor Narada Warnasuriya Department of Clinical Sciences, Faculty of Medicine, General Sir John Kotelawala Defence University</p> <p>Senior Professor Mirani Weerasooriya Department of Paraclinical Sciences, Faculty of Medicine, General Sir John Kotelawala Defence University</p>
1400 – 1405 Hrs	Introduction of the Chairperson
1405 – 1430 Hrs	<p>Dr Chandima Jeewandara Director - Allergy, Immunology and Cell Biology Unit Faculty of Medicine, University of Sri Jayewardenapura</p>
1430 – 1455 Hrs	<p>Dr Thushan de Silva Senior Clinical Lecturer in Infectious Diseases, University of Sheffield, UK; Honorary Consultant Physician, South Yorkshire Regional Department of Infection and Tropical Medicine in Sheffield, UK</p>
1455 – 1520 Hrs	<p>Senior Professor Rohini Fernandopulle WHO National Consultant on Regulatory Functions to NMRA Sri Lanka; Senior Professor in Clinical Pharmacology and Therapeutics, General Sir John Kotelawala Defence University</p>
1520 – 1545 Hrs	<p>Dr Palitha Abeykoon WHO Director General's Special Envoy for COVID-19 for South East Asia, Advisor to the WHO Country Office and to the Regional Director of the WHO South East Asia Region</p>
1545 – 1550 Hrs	Questions and Answer Session
1550 - 1600 Hrs	Summing up by the Chair
1600 – 1630 Hrs	Refreshments
1630 – 1730 Hrs	Evaluation of Poster Presentations

ENGINEERING

Theme: Sustaining National Growth through Ingenuity and Innovation in the New Normal

Venue: FOE 6-1 – 6th floor, Faculty of Engineering

Chairperson	Professor Karm Veer Arya Department of Computer Science ABV-IIITM, India
1330 – 1335 Hrs	Introduction of the Chairperson
1335 – 1405 Hrs	Prof Muttucumaru Sivakumar School of Civil, Mining & Environmental Engineering Faculty of Engineering and Information Sciences University of Wollongong, Australia
1405 – 1435 Hrs	Prof Sisil Kumarawadu Department of Electrical, Electronic and Telecommunication Engineering General Sir John Kotelawala Defence University
1435 – 1505 Hrs	Prof AADAJ Perera Department of Civil Engineering University of Moratuwa
1505 – 1535 Hrs	Prof Ruwan Gopura Department of Mechanical Engineering University of Moratuwa
1535 – 1550 Hrs	Questions and Answer Session
1550 - 1600 Hrs	Summing up by the Chair
1600 – 1630 Hrs	Refreshments
1630 – 1730 Hrs	Evaluation of Poster Presentations

MANAGEMENT, SOCIAL SCIENCES AND HUMANITIES

Theme: Revisiting National Development in the New Normal

Venue: Mini Auditorium

Chairperson	Hon (Prof) Charitha Herath Professor of Philosophy Member of Parliament, Sri Lanka.
1400 – 1405 Hrs	Introduction of the Chairperson
1405 – 1430 Hrs	The Place of Accounting in the New Normal Dr Hendrik Vollmer Associate Professor of Accounting Warwick Business School, University of Warwick, UK.
1430 – 1455 Hrs	Changed Role of Higher Education for National Development Under new/next normal Dr Suren Raghavan Member of Parliament, Sri Lanka. Research Fellow at Oxford Centre for Buddhist Studies Canterbury, England, UK.
1455 – 1520 Hrs	Tiebout Sorting and Environmental Injustice. Professor Dakshina De Silva Professor of Economics, Department of Economics, Lancaster University, UK.
1520 – 1545 Hrs	Humanitarian Logistics in the New Normal Dr Thomas E. Fernandez Regional Coordinator - South East Asia, Humanitarian Logistics Association, Northants, UK.
1545 – 1610 Hrs	Language Teaching and Teacher Education in the New Normal Dr Bimali Indrarathne Lecturer in Applied Linguistics, Department of Education University of York, UK
1610 – 1615 Hrs	Questions and Answer Session
1615 - 1625 Hrs	Summing up by the Chair
1625 – 1755 Hrs	Refreshments

LAW

Theme: Challenges Faced by the Sri Lankan Legal System in the Context of
New Normal

Venue: Auditorium, Faculty of Graduate Studies

Chairperson	His Lordship Jayantha Jayasuriya PC Chief Justice
1405 – 1410 Hrs	Introduction of the Chairperson
1410 – 1425 Hrs	Hon Mohamed Ali Sabry PC Minister of Justice
1425 – 1440 Hrs	Hon Susil Premajayantha State Minister of Education Reforms, Open Universities & Distance Learning Promotion
1440 – 1455 Hrs	Hon Mohan Peiris PC Former Chief Justice and the Permanent Representative to the United Nations
1455 – 1510 Hrs	Farzana Jameel PC Senior Additional Solicitor General
1510 – 1525 Hrs	Dr Joe Silva Former Principal of Sri Lanka Law College
1525 – 1540 Hrs	Questions and Answer Session
1540 – 1545 Hrs	Summing up by the Chair
1545 – 1615 Hrs	Refreshments
1615 – 1715 Hrs	Evaluation of Poster Presentations

ALLIED HEALTH SCIENCES

Theme: Towards Healthcare Advancement and Sustainability under
Pandemic Challenges

Venue: LL1 – 4th Floor, Faculty of Medicine

Chairperson	Prof BMHSK Banneheka Department of Basic Sciences, Faculty of Dental Sciences, University of Peradeniya.
1400 – 1405 Hrs	Introduction of the Chairperson
1405 – 1425 Hrs	US Experience with the COVID-19 Pandemic Prof Steven M Albert Department of Behavioral and Community Health Sciences, Graduate School of Public Health, University of Pittsburgh, USA.
1425 – 1445 Hrs	The Use of Artificial Intelligence in Radiological Diagnosis Prof. Meng Liang School of Medical Imaging, Tianjin Medical University, China.
1445 – 1505 Hrs	Radiological Technologists' Role in Global Health for Covid-19 Pandemic Asst Prof Napapong Pongnapang Department of Radiological Technology, Faculty of Medical Technology, Mahidol University, Thailand.
1505 – 1525Hrs	Health Outcomes Concerning Vulnerable Groups - A European Perspective Prof Martin Persson Faculty of Health Sciences, Kristianstad University, Sweden.
1525 – 1545 Hrs	Anterior Cruciate Ligament (ACL) Rehabilitation and Outcomes. Asso Prof Gisela Sole School of Physiotherapy, University of Otago, New Zealand.
1545 – 1615 Hrs	Questions and Answer Session
1615 - 1620 Hrs	Summing up by the Chair
1620 – 1650 Hrs	Refreshments
1650 – 1750 Hrs	Evaluation of Poster Presentations

BUILT ENVIRONMENT AND SPATIAL SCIENCES

Theme: Rethinking Structures and Spatiality under New Normal
Transformations

Venue: LT01 - 3rdFloor, Faculty of Medicine

Chairperson	Prof Samitha Manawadu Senior Professor in Architecture Faculty of Architecture, University of Moratuwa
1400 – 1405 Hrs	Introduction of the Chairperson
1405 – 1425 Hrs	Dr Ravihansa Chandratilake Managing Director Canwill Holdings Ltd, Ministry of Finance, Sri Lanka
1425 – 1445 Hrs	Ch QS Prof (Mrs) Kanchana Perera Professor in Quantity Surveying Faculty of Architecture, University of Moratuwa
1445 – 1505 Hrs	Prof NP Ratnayake Professor in Geology Faculty of Engineering, University of Moratuwa
1505 – 1525 Hrs	Prof Siegfried K Yeboah Assistant Professor Faculty of Science and Engineering, University of Nottingham, Ningbo, China
1525 – 1535 Hrs	Questions and Answers Session
1535 – 1545 Hrs	Summing up by the Chair
1545 - 1615 Hrs	Refreshments
1615 – 1745 Hrs	Evaluation of Poster Presentations

COMPUTING

Theme: Digital Resilience and Innovation in the New Normal.

Venue: LT 03 - 3rdFloor, Faculty of Medicine

Chairperson	Senior Professor Asoka Karunananda Department of Computational Mathematics, Faculty of Information Technology, University of Moratuwa,
1400 – 1405 Hrs	Introduction of the Chairperson
1405 – 1430 Hrs	Multi-step-ahead Influenza Prediction using Machine Learning Models Prof Yukun Bao School of Management Huazhong University of Science and Technology
1430 – 1455 Hrs	Techno-Socio-Psycho Challenges of National Development in the New Normal Prof Tony Sahama Adjunct Associate Professor Health Information Science, University of Victoria, Canada
1455 – 1520 Hrs	Making University Education Smart in the New Normal Dr Shantha Fernando Department of Computer Science and Engineering, University of Moratuwa
1520 – 1545 Hrs	The Opportunity: ICT for a Sustainable Post-Covid Future in Sri Lanka Mr Diyath Ariyaratne General Manager, Pearson Lanka (Pvt) Ltd
1545 – 1610 Hrs	Use of Blockchain Proofs for Building Trust in Business Mr Dileepa Jayathilake Director, Research & Special Projects, 99x
1610 – 1615 Hrs	Questions and Answer Session
1615 - 1625 Hrs	Summing up by the Chair
1625 – 1655 Hrs	Refreshments
1655 – 1800 Hrs	Evaluation of Poster Presentations

BASIC AND APPLIED SCIENCES

Theme: Holistic Growth and National Development

Venue: LL3 – 4th Floor, Faculty of Medicine

Co – Chairpersons

Prof Ranil de Silva

Research Professor, KDU-CARE, Principal Investigator,
Neuro- Molecular Diagnostics and Neuro- BioBank

Prof George Dias

Professor in Clinical Anatomy & Biomaterials, Department
of Anatomy, School of Biomedical Sciences, University of
Otago, New Zealand

1400 – 1410 Hrs

Introduction of Co-Chairpersons

1410 – 1430 Hrs

Prof Toru Takeo

Professor, Center for Animal Resources & Development,
Kumamoto University, Japan

1430 – 1450 Hrs

Prof RMG Rajapakse

Senior Professor in Chemistry, University of Peradeniya, Sri
Lanka

1450 – 1510 Hrs

Dr Tracey Bradshaw

Assistant professor, School of Pharmacy, Faculty of Science,
University of Nottingham, UK

1510 – 1530 Hrs

Dr Vijay Pal Singh

Veterinarian and Assistant Professor, Council of Scientific
and Industrial (CSIR) Institute of Genomics and Integrative
Biology, India

1530 – 1550 Hrs

Prof Harry Steinbusch

Professor in Cellular and Translational Neuroscience,
Department of Cellular Neuroscience, Faculty of Health,
Medicine & Life Sciences, Maastricht University,
The Netherlands.

1550 – 1610 Hrs

Panel Discussion and Summing up by the Chair

1610 – 1630 Hrs

Refreshments

1630 – 1730 Hrs

Evaluation of Poster Presentations

ORAL PRESENTATIONS

10th September 2021

DEFENCE AND STRATEGIC STUDIES

Technical Session I: - Military Affairs

Venue: Auditorium, Faculty of Graduate Studies

Chairperson	Professor Emeritus Amal Jayawardane
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0845 Hrs	Preliminary Remarks by the Chair
0845– 0850 Hrs	Introducing Iron Man: Exoskeletons in Warfare N Nilanthan
0850 – 0900 Hrs	Nuclear Hazards of Sri Lanka: Myths and Realities KSC Silva and N Ranasingha
0900 – 0910 Hrs	Military Combating an Invisible Enemy: Securitizing the COVID-19 Threat in Sri Lanka T Bandara
0910 – 0920 Hrs	Is the German ‘Blitzkrieg’ Military Strategy a Feasible Tactic in Modern Day Warfare? RJ Pinto
0920 – 0930 Hrs	Automated Assassins: Utility of Drones as Suicide Carders in Modern Warfare DCN Hapuarachchi
0930 – 0940 Hrs	Civil Military Interdependency to Counter – Terrorism: A Case Study of Sri Lanka HS Wijesinghe and M Ajward
0940 – 1010 Hrs	Question and Answer Session
1010 – 1020 Hrs	Summing up by the Chair
1020 – 1050 Hrs	Refreshments

DEFENCE AND STRATEGIC STUDIES

Technical Session II: - Geopolitics & Strategic Groupings

Venue: Auditorium, Faculty of Graduate Studies

Chairperson	Senior Professor Nayani Melagoda
1100 – 1105 Hrs	Introduction of the Chair
1105 – 1110 Hrs	Preliminary Remarks by the Chair
1110 – 1120 Hrs	Clash of Strategies in the Indo-Pacific: Challenge of Preserving the Equilibrium R Joseph
1120 – 1140 Hrs	Reflecting on US-China Rivalries in Sri Lanka in a Post-COVID World G Wignaraja
1140 – 1150 Hrs	Security Implications of Quad and BRI in South Asia C Attanayake
1150 – 1200 Hrs	Effective Application of International Refugee Law: The Impact on Palestinians DGN Sanjeevani
1200 – 1210 Hrs	The Taiwan Issue: Exploring the Possible Standoff between QUAD and China ACT Peiris
1210 – 1220 Hrs	The Geopolitics of Russia: A Struggle Linked to Geography and Global Dominance A Senevirathna
1220 – 1250 Hrs	Question and Answer Session
1250 – 1300 Hrs	Summing up by the Chair
1300 – 1345 Hrs	Lunch

DEFENCE AND STRATEGIC STUDIES

Technical Session III: - Terrorism and Drivers of Violence

Venue: 4th Floor, Seminar Room 1, Faculty of Graduate Studies

Chairperson	Professor Shahab Enam Khan
1100 – 1105 Hrs	Introduction of the Chair
1105 – 1110 Hrs	Preliminary Remarks by the Chair
1110 – 1120 Hrs	Will ISIS resurrect the caliphate in Afghanistan? A Fuard
1120 – 1130 Hrs	Sole Representatives in Tamil Politics: A Case Study of the Tamil National Alliance (TNA) in Post-Conflict Sri Lanka S Satheesmohan
1130 – 1140 Hrs	Mawanella in the Balance: Roots of Indoctrination of Muslim Youth: Preliminary Results of a Field Study Z Imtiaz, R Kuruwita, N Nafeel and S Muttukrishna
1140 – 1150 Hrs	Lone Wolf Terrorism: Identifying Possible Future Threats in Sri Lanka KERL Fernando and R Fernando
1150 – 1200 Hrs	Countering Terrorism: Striking a Balance Between National Security and Human Rights CLCM Patabendige
1200 – 1230 Hrs	Question and Answer Session
1230 – 1240 Hrs	Summing up by the Chair
1240 – 1320 Hrs	Lunch

DEFENCE AND STRATEGIC STUDIES

Technical Session IV: - Techno-Strategic communication

Venue: Auditorium, Faculty of Graduate Studies

Chairperson	Dr Chanaka Thalpahewa
1400 – 1405 Hrs	Introduction of the Chair
1405 – 1410 Hrs	Preliminary Remarks by the Chair
1410 – 1420 Hrs	Building a Virtual Military Force for National Security, Stability and Development of Sri Lanka PADACS Jayathilaka and RMS Veronika
1420 – 1430 Hrs	Digital Minds into National Security: Artificial Intelligence for Threat Analysis BJ Perera
1430 – 1440 Hrs	Non-Kinetic Next Generation Terrorism in Post Conflict Sri Lanka: Importance of Countering Double Front Propaganda from LTTE and ISIS SUW Jayaratne
1440 – 1450 Hrs	Use of Visual Media by LTTE Front Organisations to Influence Post-War Sri Lanka A Ariyapperuma
1450 – 1500 Hrs	Effects of Digital Technologies on Health Service Delivery and Quality Management in Sri Lankan Health Care Systems RMS Veronika and PADACS Jayathilaka
1500 – 1530 Hrs	Question and Answer Session
1530 – 1540 Hrs	Summing up by the Chair
1540 – 1610 Hrs	Refreshments

DEFENCE AND STRATEGIC STUDIES

Technical Session V: - Maritime Affairs

Venue: 4th Floor, Seminar Room 1, Faculty of Graduate Studies

Chairperson	Dr Ganeshan Wignaraja
1400 – 1405 Hrs	Introduction of the Chair
1405 – 1410 Hrs	Preliminary Remarks by the Chair
1410 – 1420 Hrs	Pragmatic Response for Maritime-Air Security, A Way Forward: Conceptual Framework from a Strategic Aerial Perspective N Wanasinghe and K Wijetunge
1420 – 1430 Hrs	Maritime Terrorism in South East Asia: An Assessment PKBI Premarathna
1430 – 1440 Hrs	Conceptualising an Air Diplomacy Framework for Air Strategy of Small Air Forces to Strengthen Foreign Policy Aspirations: Sri Lankan Perspective and Way Forward MADCK Wijetunge and HWN Wanasinghe
1440 – 1450 Hrs	The Port Policy of Small Island Powers: Sri Lankan Perspective SACR Kulatunga and AKJS Kumara
1450 – 1520 Hrs	Question and Answer Session
1520 – 1530 Hrs	Summing up by the Chair
1530 – 1600 Hrs	Refreshments

MEDICINE

Technical Session I

Venue: Mini-Lecture Theatre, 4th Floor, Faculty of Medicine

Chairperson	Prof Ishani Rodrigo/ Dr Nishantha Kumarasinghe
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0855 Hrs	Demography and Disease Related Factors Affecting Pruritus among Patients with Chronic Plaque Psoriasis Attending Tertiary Care Dermatology Unit in Sri Lanka: A pilot study PLAN Liyanage, PLGC Liyanage, PV De Silva, J Akarawita, C Gunasekera, S Imafuku and S Lekamwasam
0855 – 0910 Hrs	Prescription of Statins in Patients with Type 2 Diabetes Mellitus: Are We Following the guidelines? AT Matthias, PDJ Kaushalya, G Somathilake and C Garusinghe
0910 – 0925 Hrs	Descriptive Cross-Sectional Study of the Dietary Patterns, Physical Activity and Co-morbidities of Obese Patients Attending the Medical Nutrition Clinic - UHKDU SAC Dalpatadu, UD Hiripitiya, NK Edirisinghe and R Jayatissa
0925 – 0940 Hrs	Adverse Events Following ChAdOx1nCoV-19 Vaccine in the First Phase of Vaccine Roll Out in Sri Lanka DS Govindapala, WMID Nakkawita, UTN Senaratne, W Wijenayake, RMUS Senarath, TD Wijewardena, P Kawyangana, AD De Silva and NS Fernando
0940 – 0955 Hrs	Impact of Parenting Style on Borderline Personality Disorder in Young Females in Sri Lanka: A Review of Cases K Hettigoda
0955 – 1010 Hrs	Psychometric Properties of Sinhala Version of Burden Scale for Family Caregivers' Short Form (BSFC-s); A Validation study in Sri Lanka N Rathnayake, T Abeygunasekara, W De Zoysa, D Palangasingha and S Lekamwasam
1010 – 1015 Hrs	Summing up by the Chair
1015 – 1045 Hrs	Refreshments

MEDICINE

Technical Session II

Venue: Mini-Lecture Theatre, 4th Floor, Faculty of Medicine

Chairperson	Dr Ranga Perera/ Dr Dumitha Govindapala
1045 – 1050 Hrs	Introduction of the Chair
1050 – 1055 Hrs	Preliminary Remarks by the Chair
1055 – 1110 Hrs	Investigating the Clinical Data and Their Correlation with Carcinoembryonic Antigen Levels in a Cohort of Patients with Colorectal Cancer FT Muhinudeen, AJIS Rathnayake, SL Malaviarachchi and WMMS Bandara
1110 – 1125 Hrs	Explanatory Models of Cancer among Sri Lankans: An Interim Analysis TH Solomons, S Malaviarachchi, J Balawardane and S Manjuka
1125 – 1140 Hrs	Early Detection Saves Lives: Diagnosed Stage at the Time of Presentation of Breast Cancer, Time Taken to Seek Treatments and Factors Associated with Treatment Delay in Female Patients at Apeksha Hospital and University Hospital of Kotelawala Defence University WA Rashmi, TPS Perera, RYBM Perera, DND Perera, KRCI Perera, LWD Prasad, PLDR Prabath, ARM Rifkaan and WDD de Silva
1140 – 1155 Hrs	Multi-Drug Resistance in Bacteria Isolated from Respiratory Specimens of COVID-19 Pneumonia Patients Admitted to a Tertiary Care Hospital in Sri Lanka WMID Nakkawita, T Senaratne and S Weerasinghe
1155 – 1210 Hrs	Evaluating Bioequivalence of Two Formulations of Clarithromycin Immediate Release Film Coated Tablets in Healthy Sri Lankan Subjects under Fasting Conditions US Kulasekara, O Nayanathara, A Ranasinghe, P Gamage, RY Ramasinghe, J Munasinghe, AD De Silva, PH Premaratne, HS Jayasinghearachchi and R Fernandopulle
1210 – 1225 Hrs	Prevalence of Staphylococcus and Candida species in the Oral Cavities of the Patients with Cleft Lip and Palate (CLP) Prior to Reconstructive Surgery HK Wedage, JAMS Jayatilake and WMPK Wijekoon
1225 – 1230 Hrs	Summing up by the Chair
1230 – 1330 Hrs	Lunch

MEDICINE

Technical Session III

Venue: Mini-Lecture Theatre, 4th Floor, Faculty of Medicine

Chairperson	Dr Indika Mudalige/ Dr Nayana Fernando
1330 – 1335 Hrs	Introduction of the Chair
1335 – 1340 Hrs	Preliminary Remarks by the Chair
1340 – 1355 Hrs	Prevalence of Home Accidents among Children Aged 1-4 and its Association of Knowledge, Attitude and First Aid Practices of Mothers in Sri Lanka A Balasuriya and UC Gangodawila
1355 – 1410 Hrs	Attitude on COVID-19 among Health Care Workers in Selected Hospitals in Sri Lanka MMPT Jayasekera, AU Gamage and R De A Seneviratne
1410 – 1425 Hrs	Knowledge and Attitudes Regarding Human Immunodeficiency Virus (HIV) and Their Associated Factors among Adult Patients Attending Outpatient Department in Colombo South Teaching hospital MUW Gunaratne, DAYV Gunawardhane, SM Jeewarathne, YW Kodikara, HS Munasinghe, B Fernandopulle and CSE Goonewardena
1425 – 1440 Hrs	Parental Stress, Economic Burden and Associated Factors among Parents of Thalassemia Patients in Kurunagala District, Sri Lanka UC Jayasekara, C Wijesundara and KO Bandaranayaka
1440 – 1455 Hrs	Knowledge on HIV/AIDS and Attitude towards People Living with HIV/AIDS among Healthcare Workers at District General Hospital Kalutara LTDS Amaratunga, SAC Dalpatadu, WASS Bandara, MRDP Bandara, MHM Amjad, M Aarish, DS Ariyasinghe, PAR Abegunawardana, S Abdullah and A Balasuriya
1455 – 1510 Hrs	Knowledge on COVID19 among Health Care Support Personnel in a Tertiary Care Hospital in Colombo, Sri Lanka TS Dissanayake, D Dolkar, M Aarish and MMPT Jayasekera
1510 – 1515 Hrs	Summing up by the Chair
1515 – 1530 Hrs	Refreshments

MEDICINE

Technical Session IV

Venue: Mini-Lecture Theatre, 4th Floor, Faculty of Medicine

Chairperson	Dr Varuna Navaratne/ Lt Col (Dr) Manoj Bandara
1530 – 1535 Hrs	Introduction of the Chair
1535 – 1540 Hrs	Preliminary Remarks by the Chair
1540 – 1555 Hrs	<i>In vitro</i> Study to Identify Effects of Fetal Haemoglobin Inducing Agents on Primary Human Erythroid Cells of Beta-thalassaemia Major Patients N Yasara, A Manamperi and S Mettananda
1555 – 1610 Hrs	Detection of Variably Present Genotypes, <i>bimA_{BP}/bimA_{BM}</i>, <i>fhaB3</i> YLF/BTFC and LPSA in Sri Lankan Clinical Isolates of <i>Burkholderia pseudomallei</i> Using Real-Time PCR based Molecular Assay K Jayaratne, HS Jayasinghearachchi, E Corea, J Masakorala and A D De Silva
1610 – 1625 Hrs	Conservation of <i>in-silico</i> Predicted Epitopes of SARS-CoV-2 and Other Native Corona Viruses from Different Geographic Regions ATAD Karunathilake, NPDS Lasanthi, CL Goonasekara and SS Seneviratne
1625 – 1640 Hrs	Molecular Characterization and Phylogenetic Relationship of SARS-CoV-2 Strains Infecting a NAVY Cohort During the First Wave of the COVID-19 in Sri Lanka HS Jayasinghearachchi, DS Govindapala, WMID Nakkawita, PH Premaratne, CL Goonasekara, DGP Kawyangana, KWT Chathuranga, US Kulasekara and AD De Silva
1640 – 1655 Hrs	Identification of New Variant of SARS CoV-2 Virus of C-36 lineage with L452R Mutation at University Hospital KDU (UHKDU) Sri Lanka H Abeygoonawardena, UTN Senaratne, MMPT Jayasekera, WMID Nakkawita, FN Mubarak, US Kulasekera, DGP Kawyangana, DS Govindapala and AD De Silva
1655 – 1710 Hrs	Unravelling the Genetic Diversity of <i>Burkholderia pseudomallei</i> in Sri Lanka using Multilocus Sequence Typing K Jayaratne, HS Jayasinghearachchi, E Corea, A Fonseka, T Muthugama, J Masakorala and AD De Silva
1710 – 1715 Hrs	Summing up by the Chair
1715 – 1720 Hrs	Certificate Awarding Ceremony

ENGINEERING

Technical Session I: Parallel Session I

Theme: Confronting Challenges and Uncovering Solutions in Marine Engineering in New Normal

Venue: FOE 4-2 – 4th floor, Faculty of Engineering

Chairperson	Dr TA Piyasiri
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0850 Hrs	Verifying of ‘Orifice Plate’ Connecting Duct Lengths to Validate Performance of a ‘Vent Test Rig’ at Australian Maritime College’ by Computational Fluid Dynamics (CFD) as Part of the Oscillation Water Column Power Take Off MCP Dissanayake
0850 – 0900 Hrs	A Hybrid Diesel Engine Simulator as a Skill Development Tool for Marine Engineering Undergraduates MCP Dissanayake, KGC Pathmal and VADJV Perera
0900 – 0910 Hrs	Design Approach to Optimize Waterjet Performance: A Case Study of Coastal Patrol Craft, Sri Lanka Navy DS Bogahawatte, LAKR Athukorala
0910 – 0920 Hrs	Chronic Kidney Disease of Unknown Aetiology in Sri Lanka: An Implication of Optimizing Recovery Ratio of Brackish Water Reverse Osmosis Plant MCP Dissanayake, RS Ginige, KKN Fernando, SD Silva
0920 – 0950 Hrs	Questions and Answer Session
0950 – 1020 Hrs	Refreshments

ENGINEERING

Technical Session I: Parallel Session II

Theme: Fostering Sustainable Research in Mechanical Engineering in the New Normal

Venue: FOE 6-1 – 6th floor, Faculty of Engineering

Chairperson	Prof Nirosh Jayaweera
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0850 Hrs	Finite Element Model of PAAm Hydrogel to Assess Optimum Thickness for Cushioning Applications under Foot RMRC Udayanandana, KMTD Gunasekara, and P Silva
0850 – 0900 Hrs	Design and Development of Plastic Waste Recycling Apparatus SHMNS Herath, RJ Wimalasiri, S Udawattha
0900 – 0910 Hrs	Performance Analysis of a Photovoltaic System under Different Configurations FBYS De Silva, RMPS Bandara, RA Attalage
0910 – 0920 Hrs	Review on the Impact of Auxiliary Engine Loads on the Fuel Economy of Light Duty Vehicles D Casseer, V Athukorale, and S Gajanayake
0920 – 0950 Hrs	Questions and Answer Session
0950 – 1020 Hrs	Refreshments

ENGINEERING

Technical Session II: Parallel Session I

Theme: Confronting Challenges and Uncovering Solutions in Marine Engineering in New Normals

Venue: FOE 4-2 – 4th floor, Faculty of Engineering

Chairperson	Dr TA Piyasiri
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1050 Hrs	Development of a Robust Fire Boat to Operate at Fishery Harbours MCP Dissanayake, PMKC Chandimal
1050 – 1100 Hrs	Developing an Explosive Laden Unmanned Waterborne Vehicle to Eliminate Liberation Tamil Tiger Elam (LTTE) Suicide Boat Attacks at Sea MCP Dissanayake
1100 – 1110 Hrs	Inductively Coupled Plasma Optical Emission Spectrometry in Effective Condition Based Maintenance Engineering Plan DMPM Dasanayaka, EN Fernando
1110 – 1120 Hrs	Cost Effective Method to Analyse Lubrication Oil TNA Rathnayake
1120 – 1150 Hrs	Questions and Answer Session
1150 – 1300 Hrs	Lunch

ENGINEERING

Technical Session II: Parallel Session II

Theme: Fostering Sustainable Research in Mechanical Engineering in the New Normal

Venue: FOE 6-1 – 6th floor, Faculty of Engineering

Chairperson	Dr Ruminda Wimalasiri
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1050 Hrs	Optimization of Industrial Manipulation Tasks Using Parallel Manipulators IM Akarawita, BGMS Senadheera, HSG Samarasinghe, and WSP Fernando
1050 – 1100 Hrs	Auto Balancing Ambulance Stretcher with Active Control to Mitigate the Discomfort of the Patient KKVPM Kalyanapriya, CON Ratnayake, AMAB Adikari, WSP Fernando and KDPR Jayatilaka
1100 – 1110 Hrs	Design of a Magnetostrictive Bimorph for Micromanipulation KNM Perera, HAGC Premachandra, and YWR Amarasinghe
1110 – 1120 Hrs	Framework for Aviation Safety Cost Optimization through Risk Mitigation Tolerance Analysis WTS Rodrigo and WDT Fernando
1120 – 1150 Hrs	Questions and Answer Session
1150 – 1300 Hrs	Lunch

ENGINEERING

Technical Session III: Parallel Session I

Theme: Rising to the Challenges of the New Normal through Innovative Civil Engineering Practices

Venue: FOE 4-2 – 4th floor, Faculty of Engineering

Chairperson	Prof UP Nawagamuwa
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1320 Hrs	Impacts of Changing Rainfall Patterns on Hydropower Generation: A Case Study of Kehelgamu Oya Sub-basin RWMNT Lokubandara and WCDK Fernando
1320 – 1330 Hrs	Identifying Current Trends in Source Selection of Household Water Use in Pohaddaramulla, Kalutara ETD Ediriweera and NK Gunasekara
1330 – 1340 Hrs	Impact of COVID-19 Lockdowns on Air Quality in the South Asian Region MT Gunasekara and VS Waraketiya
1340 – 1410 Hrs	Questions and Answer Session
1410 – 1500 Hrs	Refreshments

ENGINEERING

Technical Session III: Parallel Session II

Theme: Emerging Trends and Technologies for New Normal in Engineering Sciences

Venue: FOE 6-1 – 6th floor, Faculty of Engineering

Chairperson	Dr NW Prins
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1320 Hrs	Indigenously Designed and Developed Control System for Sri Lankan Naval Vessels “Naval Propulsion & Steering Control” System K Bombugalage, AB Arachchi
1320 – 1330 Hrs	A Methodological Literature Review on Non-Invasive Blood Group Detection MDVAG Jayawardena
1330 – 1340 Hrs	Supersaturation Controlled Wet Synthesis of Nanohydroxyapatite for Biological Applications GS Dhananjaya, TGD Madusanka and SU Adikary
1340 – 1350 Hrs	Analysis of Binarization Techniques in Morphology-Based Scatterer Calculation U Dayarathne, MS Bandara, WLPK Wijesinghe and D Hewadikaram
1350 – 1420 Hrs	Questions and Answer Session
1420 – 1500 Hrs	Refreshments

MANAGEMENT SOCIAL SCIENCES AND HUMANITIES

Technical Session I: Management and Finance

Venue: FDSS Conference Hall

Chairperson **Prof PHT Kumara**

0830 – 0835 Hrs Introduction of the Chair

0835 – 0840 Hrs Preliminary Remarks by the Chair

0840 – 0850 Hrs **Competitive Edge Through Automation: A Study on the Sri Lankan Apparel Industry**

A De Silva, S Gunathilake, H Munaweera, D Perera and L Gunathilake

0850 – 0900 Hrs **A Study on the Relationship Between Employee Perceived Autonomy and Job Satisfaction of Remote Employees**

PD Karunarathne

0900 – 0910 Hrs **Fuelling the Start-Ups: Nexus of Crowdfunding Awareness, Parental Influence, and Internet Familiarity on Start-Up Intention**

SAMTP Siriwardhana and WDNSM Tennakoon

0910 – 0920 Hrs **University Students' Intention of Continuous Use of Zoom for e- Learning**

AHI Chandradasa and BL Galhena

0920 – 0930 Hrs **Flexible Working Arrangements and Job Satisfaction of Public Sector Employees: With Reference to Post COVID-19 Situation in Sri Lanka**

DH Abeysinghe, S Ranasinghe, D Mendis and L Gunathilake

0930 – 1000 Hrs Questions and Answer Session

1000 – 1030 Hrs Refreshments

MANAGEMENT SOCIAL SCIENCES AND HUMANITIES

Technical Session II: Management and Finance

Venue: FDSS Conference Hall

Chairperson	Prof Amila Jayarathne
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1050 Hrs	Exploratory Study in Conceptualizing Individual Work Performance (IWP) Construct in Three Different Industries in Sri Lanka GGTY Gunathilake
1050 – 1100 Hrs	The Impact of Supply Chain Visibility on Consumers' Purchase Intention of Organic Food MA Supun, FMH Sigirige, PCDU De Silva, TD Meepagala and W Premarathne
1100 – 1110 Hrs	Studying the Issues Faced in Commercial Bank Branch Operational Related Fraud Management NS Akurugoda
1110 – 1120 Hrs	The Impact of Gender and Location on Career Indecision: Special Reference to Sri Lankan State Universities MN Maduwanthi
1120 – 1130 Hrs	The Role of Environmental and Psychological Factors in Assisting Sustainable Entrepreneurial Performance (SEP) of Women-Led Micro Firms: A Study Based in Kandy District GHK Fonseka, RMAM Rathnayake, DU Kasthuriarachchi, PMTR De Silva and KR Ambepitiya
1130 – 1200 Hrs	Questions and Answer Session
1200 – 1330 Hrs	Lunch

MANAGEMENT SOCIAL SCIENCES AND HUMANITIES

Technical Session I: – Language and Education

Venue: Mini Auditorium

Chairperson	Prof Lalith Ananda
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0855 Hrs	An Investigation on the Constraints Encountered by Lower Secondary Learners with Reference to the Bilingual Education Policy in Sri Lanka DGK Amunugama, EMAN Ekanayake, NN Welgama and NP Wickramage and DU Wickramasinghe.
0855 – 0910 Hrs	The Impact of the Socio-Political Tenacity on Language Usage in Sri Lankan English Journalistic Writings PDDD Wickramasinghe and HR Tharanga
0910 – 0925 Hrs	Despondency of English Language Teaching Departments: Factors Impinging upon the Struggle to Enhance English Language Skills of Undergraduates R Gunawardane, S Chandradasa and HH Senevirathne
0925 – 0940 Hrs	An Investigation on the Implementation of the Right to Participation in the Teaching-Learning Process at the Senior Secondary School Level SN Jayasinghe
0940 – 0955 Hrs	Perception of Teacher Trainees Regarding the Implementation of Continuous Assessment in National Colleges of Education in Sri Lanka WAMGK Wanasinghe
0955 - 1000 Hrs	Questions and Answer Session
1000 – 1030 Hrs	Refreshments

MANAGEMENT SOCIAL SCIENCES AND HUMANITIES

Technical Session II: – Language and Education

Venue: Mini Auditorium

Chairperson	Dr Bimali Indrarathne
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1055 Hrs	Attitudes of Tertiary-Level English Learners in Sri Lanka towards Online Learning: A Study Conducted During the Covid-19 Pandemic SR Dilhara, N Herath and R Kavindi
1055 – 1110 Hrs	Assessing the e-Learner Autonomy among ESL (English as a Second Language) Learners in Higher Education Institutes, Sri Lanka WS Sudusinghe and WGC Kumara
1110 – 1125 Hrs	Adopting Synchronous Teaching Technologies in Online ELT Classrooms During the COVID-19 Pandemic at Technological Education Institutes RVARK Pathirana
1125 – 1140 Hrs	Preliminary Findings of an Analysis of the COVID-19 English Terminology Used in Electronic News Media in Sri Lanka W Abeyawickrama and K Amaratunga
1140 – 1155 Hrs	A Participatory Survey on Effective Utilization of Teacher-Student and Student-Peer Interaction on Online Platforms in Second Language Teaching Pedagogy HP Alahakoon, NWSC Wijewantha, HR Tharanga and WE Dahanayake
1155 – 1200 Hrs	Questions and Answer Session
1200 – 1330 Hrs	Lunch

MANAGEMENT SOCIAL SCIENCES AND HUMANITIES

Technical Session I: Social Sciences

Venue: Mini Auditorium

Chairperson	Dr Dayani Panagoda
1330 – 1335 Hrs	Introduction of the Chair
1335 – 1340 Hrs	Preliminary Remarks by the Chair
1340 – 1355 Hrs	Does Working from Home Affect Work-Life Balance? A Look into the Factors that Affect Work-Life Balance D Rathnaweera and R Jayathilaka
1355 – 1410 Hrs	In a Home with No Home Feeling: Psycho-Social Encounters of Female Children Living under Institutional Care WAS Thilanka
1410 – 1425 Hrs	Replanting Tea Lands of Smallholding Sector in Sri Lanka: A Case Study in Galle District PNMM Wijerathna and GC Samaraweera
1425 – 1440 Hrs	An Operational Model of Managing Vocational Training for Persons with Visual Impairment and Blindness T Suraweera, S Thelijjagoda, R Jayathilaka and C Wickramaarachchi
1440 – 1450 Hrs	Questions and Answer Session
1450 – 1520 Hrs	Refreshments

MANAGEMENT SOCIAL SCIENCES AND HUMANITIES

Technical Session II: Social Sciences

Venue: Mini Auditorium

Chairperson	Dr Kamalika Jayathilaka
1520 – 1525 Hrs	Introduction of the Chair
1525 – 1530 Hrs	Preliminary Remarks by the Chair
1530 – 1545 Hrs	Economic Sensitivity of Non-Working Females for Wage Differential Compensation: Empirical Evidence from Sri Lanka WMPM Wijayawardhana and DRJ Siriwardhane
1545 – 1600Hrs	From ‘Frying Pan to Fire’: Unprecedented Challenges of Covid-19 on Blind People in Sri Lanka T Suraweera, S Thelijjagoda, R Jayathilaka, S Bandara, S Hasintha and S Gunasekara
1600 – 1615 Hrs	Factors Affecting on Shifting from Current Cultivation to Hot Pepper Cultivation along with Contract Farming Practices: A Case Study in Minuwangoda, Sri Lanka HSW Gunasekara, GC. Samaraweera and G Jayasundara
1615 – 1620 Hrs	Questions and Answer Session
1620 – 1650 Hrs	Certificate Awarding Ceremony

LAW

Technical Session I – Challenges to the National Security in the Post-pandemic Era: Legal Perspectives

Venue: Main Auditorium, Academic Building

Chairperson	Kalinga Indatissa, PC
0815 – 0820 Hrs	Introduction of the Chair
0820 – 0825 Hrs	Preliminary Remarks by the Chair
0825 – 0835 Hrs	Scales of Natural Justice in a Military Summary Trial: A Critical Analysis with Special Reference to Sri Lanka KAAN Thilakarathna and HSD Mendis
0835 – 0845 Hrs	Exploration on Principles of Uniformity, Impartiality and Relevancy Based on the Applicability of Law of Evidence within the Process of Administration of Justice in Sri Lanka DND Kannangara and BANM Balachandra
0845 – 0855 Hrs	Freedom of Expression in Cyber Space: Protecting Right to Privacy and Public Security in Sri Lanka M Gunathilake
0855 – 0905 Hrs	Criminal Proceedings of Drunk Driving Cases in Sri Lanka: An Analysis of Law and Practice KC Munasinghe
0905 – 0915 Hrs	Statutory Commissions and Their Consequences in Sri Lanka: A Legal Perspective SMAG Senevirathne
0915 – 0930 Hrs	Questions and Answer Session
0930 – 1000 Hrs	Refreshments

LAW

Technical Session II – Novel Trends Emanating from the New Normal and Legal Response by the Corporate Sector

Venue: Main Auditorium, Academic Building

Chairperson	K Kanag-Isvaran, PC
1000 – 1005 Hrs	Introduction of the Chair
1005 – 1010 Hrs	Preliminary Remarks by the Chair
1010 – 1020 Hrs	The Role of Business in Achieving Sustainable Development Goals amid the COVID-19 Pandemic: The Legal Perspectives AS Samarakoon, KM Wijayaratne and PS Matharage
1020 – 1030 Hrs	Theoretical Foundation and Contemporary Application of the Concept of "Social Engineering" to Intellectual Property (Amendment) Act, No 08 of 2021. SASP Hansitha and DPDN Kularathna
1030 – 1040 Hrs	A Review of Tobacco Taxation and Packaging Laws in Sri Lanka: Suggestions for Development. SGT Indika
1040 – 1050 Hrs	Do Companies Commit Felonies? A Legal Analysis on Corporate Criminal Liability. AP Rathnayake
1050 – 1100 Hrs	Challenges of Law Related to Indigenous Medical Research for Drug Innovation in Sri Lanka in the Context of the New Normal: A Critical Analysis KPIA Kiriella
1100 – 1115 Hrs	Questions and Answer Session
1115 – 1300 Hrs	Lunch

LAW

Technical Session III - Advancing the Frontiers of International Law in the Context of a Worldwide Pandemic

Venue: Main Auditorium, Academic Building

Chairperson	Dr Nihal Jayawickrama
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1320 Hrs	Development and Rights of Indigenous Communities: A Comparative Analysis of Sri Lankan Law and International Standards BRSL Boraluwa, DMNS Dissanayake and RMMY Ranaweera
1320 – 1330 Hrs	Personal Data Protection in the Context of Employment: A Discussion of Law in Sri Lanka in the Light of the GDPR RLW Rajapakse
1330 – 1340 Hrs	Right to Internet Access for the Development of Online Education in Sri Lanka during Covid-19: A Comparative Analysis of Finland, France and India AS Samarakoon, VP Liyanage and VP Liyanage
1340 – 1350 Hrs	Puzzling out the Issue of Obesity under the Human Rights-Based Approach MKG Jeewanthi and MDK Kaneshika
1350 – 1400 Hrs	Legislating the Principle of Best Interest of the Child: The Sri Lankan Standpoint IK Munasinghe
1400 – 1415 Hrs	Questions and Answer Session
1415 – 1430 Hrs	Refreshments

LAW

Technical Session IV - Constraints in Public Law in Responding to an Unexpected Natural Hazard of Biological Origin

Venue: Main Auditorium, Academic Building

Chairperson	Suhada Gamlath, PC
1430 – 1435 Hrs	Introduction of the Chair
1435 – 1440 Hrs	Preliminary Remarks by the Chair
1440 – 1450 Hrs	Environmental Damage Caused by Shipwrecks in Sri Lanka: A Legal Analysis S Hansani
1450 – 1500 Hrs	“Will Poseidon Meet Artimes?” An Analysis of the Applicability of Eco-Feminism in Achieving Environmental Justice in Sri Lanka H Rathnamalala and P Wijesooriya
1500 – 1510 Hrs	For Reincarnation: An Analysis of the Application of the Polluter Pays Principle for Environmental Restoration in Sri Lanka NKK Mudalige and AA Edirisinghe
1510 – 1520 Hrs	Striking a Balance between COVID-19 Regulatory Responses and the Fundamental Rights of Citizens in Sri Lanka within the New Normal TD Walgama
1520 – 1530 Hrs	Apps: Driven Uncertainty of Welfare of Gig Workers. DAM Supunika and VP Liyanage
1530 – 1545 Hrs	Questions and Answer Session
1545 – 1615 Hrs	Certificate Award Ceremony

ALLIED HEALTH SCIENCES

Technical Session I: Parallel Session I – Radiography/Radiotherapy

Venue: LL1 – 4th Floor, Faculty of Medicine

Chairperson	Dr Jayantha Balawardana
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0850 Hrs	Classification of Patients with Epilepsy and Healthy Subjects Using Structural MRI; A Tensor-Based Morphometry Study WADH Piyumali, GDYB Jayasinghe, S Egodage and WM Ediri Arachchi
0850 – 0900 Hrs	Brachytherapy in Cervical Cancer: Accuracy in Point Dose Demarcation MS Gulawita, MPOT Kumari, SL Rasnayake, KMGS Jayasuriya and V Ramanathan
0900 – 0910 Hrs	Age and Gender-related Variations of Adult Human Ocular Volumes in Sri Lankan Population: An Evaluation using Magnetic Resonance Imaging HEH Jayasinghe, ASS Rathnayake, WMIS Wickramasinghe and AS Pallewatte
0910 – 0920 Hrs	Evaluation of Radiomics Analysis as a Tool in Differentiating Benign and Malignant Breast Masses Compared to Conventional Magnetic Resonance Imaging HNSU Wickramasinghe, WMTI Weerakoon, MS Bandara and AS Pallewatte
0920 – 0930 Hrs	Determination of the Scatter Dose Received by Thyroid Region During Chest Wall Irradiation among Breast Cancer Patients Who Received Adjuvant Two-dimensional Conventional Radiotherapy WAIU Kumara, LPM Sawandi, WMAKB Weerakoon, V Ramanathan, N Jeyakumaran and R Tudugala
0930 – 0940 Hrs	Classification of Patients with Mild Depression and Healthy Controls Using Nodal Brain Network Topology WADH Piyumali, GDYB Jayasinghe and WM Ediri Arachchi
0940 – 1000 Hrs	Questions and Answer Session
1000 – 1030 Hrs	Refreshments

ALLIED HEALTH SCIENCES

Technical Session I: Parallel Session II – Medical Laboratory Sciences

Venue: LL2 – 4th Floor, Faculty of Medicine

Chairperson	Dr KMN Kumarasinghe
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0850 Hrs	Prevalence of Microalbuminuria in Rheumatoid Arthritis Patients Attending the Rheumatology and Rehabilitation Clinic at National Hospital Sri Lanka GGRL De Silva, PCK Dodanwela, SBWMRD Samaradiwakara, IVV Madhubash, RD Widanagamage and G Katulanda
0850 – 0900 Hrs	Detection of the Minimum Inhibitory Concentrations for Meropenem in Resistant Coliform Isolates at National Cancer Institute Maharagama CSK Welagedara, WGMCH Perera, MRS Costa, NDL Kalinga, V Navaratne, S P Gunasekara and UTN Senaratne
0900 – 0910 Hrs	The Association of High sensitive C-Reactive Protein and Microalbuminuria with HbA1c Level among Type 2 Diabetes Patients in National Hospital of Sri Lanka KKT Nirmanika, HMKSD Marasinghe, BC Warnakulasooriya, AA Vithanage, WAC Karunarathna, JKMB Jayasekara, M Sumanatilleke, G Katulanda and L Thilakarathna
0910 – 0920 Hrs	Simple Reliable Alternative Methods to Detect Plasma Hemoglobin in Red Cell Concentrates for Calculating Percentage Hemolysis at Peripheral Blood Banks CA Fernando, UI Hewamana, DMDT Dissanayake, S Rathnaweera, WA Samanthilake, R Tudugala, KKS Kuruppu and JKMB Jayasekara
0920 – 0930 Hrs	An Attempt to Detection of Iron Overload and Its Complications in Beta Thalassemia Major Patients at Thalassemia Unit Kurunegala by Investigating Some of the Laboratory Parameters AASR Adikari, NHIA Nawarathna, KMI Fernando, BMPPM Abeypala, DU Kottahachchi and S Gunathilaka
0930 – 0940 Hrs	Effect of Haemolytic Interference on Lactate Dehydrogenase Activity in Pooled Normal Serum RMLS Karunathilake, S Balakumar, V Kesavan, R Surenthirakumaran and B Jaikrishna
0940 – 1000 Hrs	Questions and Answer Session
1000 – 1030 Hrs	Refreshments

ALLIED HEALTH SCIENCES

Technical Session II: Parallel Session I – Physiotherapy

Venue: LL1 – 4th Floor, Faculty of Medicine

Chairperson	Prof Charitha Goonasekara
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1050 Hrs	The Relationship Between Early Physiotherapy Intervention and Shoulder Joint Mobility among Breast Cancer Survivors in Sri Lanka BOK Weeraratne, VGG Samudika, AM Arunakanthi, HPM Dabare and SL Malaviarachchi
1050 – 1100 Hrs	Comparison of Lower Extremity Intrinsic Factors Between Non-Contact Anterior Cruciate Ligament Injured and Non-Injured Elite Football Players of the Super League in Sri Lanka JS Keshara, MRBP Wijerathne, PAPM Rodrigo, ADP Perera and HPM Dabare
1100 – 1110 Hrs	Relationship Between Craniovertebral Angle with the Long-Term Usage of Electronic Devices among Undergraduates of General Sir John Kotelawala Defence Univesrity ALNK Perera, RKNK De Silva, NS Ariyaratne and VS Thuduwege
1110 – 1120 Hrs	The Correlation Between Incidence of Falls and Quadriceps Muscle Strength among Patients with COPD from Two Selected Government Hospitals in Colombo District DGS Malsri, LA Gordon, VR Wijesiriwardane and GAD Perera
1120 – 1130 Hrs	Level of Physical Activity and Changes in Lifestyle-Related Behaviour during COVID-19 Pandemic, among Undergraduate Medical Students of Faculty of Medicine, University of Colombo, Sri Lanka: A Cross-sectional study MDS Pramodini, AH Wettasinghe and AWS Madusanka
1130 – 1140 Hrs	Prevalence of Evidence Based Physiotherapy Interventions for Children with Cerebral Palsy in Colombo District, Sri lanka: A Cross Sectional Study THESJ De Silva, T Praveena, GDI Rodrigo, MKTRS Bandara, MABL Athukorala and GDRS Fernando
1140 – 1200 Hrs	Questions and Answer Session
1200 – 1300 Hrs	Lunch

ALLIED HEALTH SCIENCES

Technical Session II: Parallel Session II – Nursing

Venue: LL2 – 4th Floor, Faculty of Medicine

Chairperson	Prof Namal Wijesinghe
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1050 Hrs	Quality of Life and Its Related Factors among Patients with Stroke in Selected Tertiary Care Hospitals in Sri Lanka LKMEWSMU Ellepola, KN Nadeesha, ERAI Jayawickrama, WMAI Wijesundara, RDN Karunathilaka and MMPT Jayasekara
1050 – 1100 Hrs	An Exploration of Mothers' Experience of Children with Thalassemia Depending on Iron Chelation Therapy in Thalassemia Centre of Provincial General Hospital Badulla NHT Doole, DMS Shantha, WMDNK Wijesekara, KMTD Abeywardhana, CDMP Karunathilaka and BSS De Silva
1100 – 1110 Hrs	Assessment of Treatment Adherence Behaviours and their Predictors among Patients Receiving Haemodialysis in Kurunegala Teaching Hospital, Sri Lanka TLC Lasanthika, JKP Wanigasuriya, UPK Hettiaratchi, AATD Amarasekara and CSE Goonewardena
1110 – 1120 Hrs	Relationship between Hypothyroidism and Non-alcoholic Fatty Liver Disease among Patients Attending the Endocrinology Clinic, Colombo South Teaching Hospital, Sri Lanka HA Kodikara, EMB Ekanayake, KKN Sewwandi, ISW Ponnampereuma, WA Epa, U Bulugahapitiya and JMKB Jayasekara
1120 – 1130 Hrs	Medication Practices in the Management of Upper Respiratory Tract Infections among Undergraduates of University of Jaffna, Sri Lanka N Thanusika, P Kalki and PAD Coonghe
1130 – 1140 Hrs	A Counselling Intervention to Improve Treatment Adherence of Ischemic Heart Disease Patients: The Development of a Protocol WGC Kumara, PT De Zoysa, A Balasuriya and NFJ Fernando
1140 – 1200 Hrs	Questions and Answer Session
1200 – 1300 Hrs	Lunch

ALLIED HEALTH SCIENCES

Technical Session III: Parallel Session I – Pharmacy

Venue: LL1 – 4th Floor, Faculty of Medicine

Chairperson	Dr DU Kottahachchi
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1320 Hrs	Knowledge, Attitudes, and Practices on E-health Literacy among FAHS Undergraduates of KDU WON De Silva, RAN Hansamali, BDJ Carmel, SU Kankanamge and UTN Senaratne
1320 – 1330 Hrs	Evaluation of <i>In Vitro</i> Antibacterial Activity and Anti-inflammatory Activity of <i>Artocarpus Nobilis</i> Thw. (Bedi del/Wal del) SPNN Senadeera, KSK Fernando, WLLN Wickramasekara, MYS Fernando and ARN Silva
1330 – 1340 Hrs	Determination of Duration of Consistency of the Antacid Activity in Aqueous, Ethanolic, Hexane Extracts and Quantitative Determination of Flavonoids and Polyphenols of <i>Evolvulus alsinoides</i> (L.) L TIS Ruberu, WJANBN Jayasuriya, LDAM Arawwawala, TS Suresh, L Palliyaguru, and PM Jayaweera
1340 – 1350 Hrs	Host-Guest Complexation Behaviour of NSAIDs with β-Cyclodextrin; A Molecular Dynamics Study NRM Nelumdeniya and RJKU Ranatunga
1350 – 1400 Hrs	Quality and <i>In vitro</i> Equivalence Testing of Chloroquine Phosphate 250 mg USP Tablets in Sri Lanka RHMPD Madahasa, SMSR Wijeratne, UPGS Undugoda, NRM Nelumdeniya and MBR Fernandopulle
1400 – 1410 Hrs	Photoprotective and Antioxidant Activities of Leaf, Fruit, and Seed Extracts of <i>Cynometra Cauliflora</i>: A Comparative Study BLC Samanmali, RN Pathirana and HIC De Silva
1410 – 1430 Hrs	Questions and Answer Session
1430 – 1500 Hrs	Refreshments

ALLIED HEALTH SCIENCES

Technical Session III: Parallel Session II – Nursing

Venue: LL2 – 4th Floor, Faculty of Medicine

Chairperson	Prof Athula Sumathipala
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1320 Hrs	Does Institutionalization Influence Negatively on the Quality of Life of Elders? A comparative Cross-sectional Study in Galle, Sri Lanka DA Wickramasinghe, MWK Gamage, B Perera
1320 – 1330 Hrs	Knowledge and Practices Regarding Antibiotics and Antibiotic Resistance of Mothers with Pre-school Children in Selected Child Welfare Clinics of Piliyandala MOH area WMSD Bandara, RHSP Perera, PSS Panawala, MP Udayangani, KIH Gunathilake, RDUP Sugathapala and TMR Perera
1330 – 1340 Hrs	Knowledge, Attitudes, and Practices Regarding Secondhand Smoking among Pregnant Mothers in Selected Peri-urban Areas in Colombo District AM Kuruwita, WHDC Perera, KPS Paramika, IMDCB Keerthisinghe, RWKC Rajasekara, HMP Herath and MS Fernando
1340 – 1350 Hrs	An Analysis of Changes in Patterns of Substance Usage among Substance Users during the COVID-19 Pandemic Period in Gampaha, Ampara, Mannar, Anuradhapura, Badulla, Vavuniya and Kandy Districts, Sri Lanka RMS Thilokshika, AHFS Harlik, WMID Dissanayake, WSK Dedunupitiya, V Nithushan, AS Niroshan, KMLB Abeyrathna, A Ranasingha, SDS Ruwanmali and GND Guruge
1350 – 1400 Hrs	Adolescent Mental Wellbeing, Substance Use and Chronic Pain: A Population-Based Cross-Sectional Study in Vavuniya District of Sri Lanka FS Jabir, L Dissanayake, T Shepherd, T Helliwell, L Selvaratnam, K Jayaweera, N Abeysinghe, C Mallen and A Sumathipala
1400 – 1410 Hrs	Effect of Smoking Cessation Interventions on Adult Tobacco Smokers in Colombo District, Sri Lanka HMP Herath, SW Wimalasekara, AATD Amarasekara, MS Fernando and S Turale
1410 – 1430 Hrs	Questions and Answer Session
1430 – 1500 Hrs	Refreshments
1500 – 1530 Hrs	Certificate Awarding Ceremony

BUILT ENVIRONMENT AND SPATIAL SCIENCES

Technical Session I - Spatial Sciences

Venue: LT01 - 3rdFloor, Faculty of Medicine

Chairperson	Dr HMI Prasanna
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0855 Hrs	Accuracy Analysis for Total Station Based on the Reflectorless Distance Measurement Using ANOVA PRR Dissanyaka and DS Munasinghe
0855 – 0910 Hrs	Detecting Urban Expansion Trends in Weligama Urban Council using Remote Sensing and GIS KSLS Hasara, JPC Singhawansa and NV Wickramathilaka
0910 – 0925 Hrs	Severity Classification of the Forest Fired Area by Utilizing Remote Sensing and GIS: A Case Study in Ella Sri Lanka KAM Chathuranga, KUJ Sandamali and AR Rupasinghe
0925 – 0940 Hrs	Analysis of Sediment Accumulation and Decumulation Pattern by Means of Bathymetric Surveys: A Case Study in Beruwala Fishery Harbor TBMA Prabasara, H Weligodapitiya and GP Gunasinghe
0940 – 1000 Hrs	Discussion and Summing up the Session
1000 – 1030 Hrs	Refreshments

BUILT ENVIRONMENT AND SPATIAL SCIENCES

Technical Session II - Quantity Surveying

Venue: LT01 - 3rdFloor, Faculty of Medicine

Chairperson	Prof (Mrs) Yasangika Sandanayake
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1055 Hrs	The Impact of Cost Reduction Methods on Cost Overruns in the Sri Lankan Construction Industry WN Kawmudi, SD Jayasooriya, TC Kathriarachchi and AH Lakmal
1055 – 1110 Hrs	Augmented Reality for Construction Project Monitoring: Challenges and Strategies for Adoption in Sri Lanka WKGS Lakmal, KATO Ranadewa, NMGH Sandagomika and JKDDT Jayanetti
1110 – 1125 Hrs	An Overview of Various Techniques and Approaches of Concurrent Delay Analysis in the Sri Lankan Construction Industry MNA Pushpakumari, C Hadiwattege and KT Withanage
1125 – 1140 Hrs	Contractor-related Cost Overrun Causes, Controlling Tools and Techniques: Study on Selected Building Construction Projects in Colombo District KKK Hansika, GPMCM Bandara and AP Karunaratne
1140 – 1200 Hrs	Discussion and Summing up the Session
1200 – 1300 Hrs	Lunch

BUILT ENVIRONMENT AND SPATIAL SCIENCES

Technical Session III - Architecture

Venue: LT01 - 3rdFloor, Faculty of Medicine

Chairperson	Dr Ravihansa Chandratilake
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1325 Hrs	Effectiveness of Online Architectural Design Teaching: Perspectives of Students and Teachers KNK Pathirana, WAPS Kumara, T Mendis and KDHJ Premarathne
1325 – 1340 Hrs	Assessing the Impact of Urban Block Typologies on Solar and Photovoltaic Potential in the Tropical Urban City of Colombo, Sri Lanka T Mendis
1340 – 1355 Hrs	Utilization of Cocowood for Affordable Engineered Wood Flooring in Sri Lanka HDS Asoka, DWK Gayantha, HT Rupasinghe
1355 – 1410 Hrs	Perceptions of Civil Engineering Undergraduates on Using Learning Management System (LMS) and Zoom Platform for Online Design Studio Teaching FR Arooz, MPWP Abeyrathna, A Gunawardana, R Jayasinghe, and RU Halwathura
1410 – 1500 Hrs	Refreshments

BUILT ENVIRONMENT AND SPATIAL SCIENCES

Technical Session IV - Multidisciplinary

Venue: LT01 - 3rdFloor, Faculty of Medicine

Chairperson	Dr Ravihansa Chandratilake
1500 – 1505 Hrs	Introduction of the Chair
1505 – 1510 Hrs	Preliminary Remarks by the Chair
1510 – 1525 Hrs	Study on Development and Implementation of Safety Inspection Drones with Machine Learning Algorithms to Improve Construction Safety in Sri Lanka DMNCT Dissanayake and NDI Vithana
1525 – 1540 Hrs	An Analysis of Professional Participation of Registered Licensed Surveyors in Land Partition CP Ranawaka, RMNM Weerasinghe and TC Kathriarachchi
1540 – 1555 Hrs	Addressing Barriers to Integrate Social Sustainability in Construction Industry UM Samarathne, SD Jayasooriya and AARK Amaratunga
1555 – 1610 Hrs	Mitigating the Effects of E-learning in Higher Education Sector in Sri Lanka during the COVID-19 Pandemic JMO Jayamanne and PDDD Wickramasinghe
1610 – 1630 Hrs	Discussion and Summing up the Session
1630 – 1645 Hrs	Certificate Awarding Ceremony

COMPUTING

Technical Session I: Parallel Session I - Challenges in Information Systems in the New Normal

Venue: LT 02, 3rd Floor, Faculty of Medicine

Chairperson	Dr Damith Wickramanayake
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0852 Hrs	Sinhala Chatbot with Recommendation System for Sri Lankan Traditional Dancers JAWT Chandrasena, ADAI Gunasekara and GAI Uwanthika
0852 – 0904 Hrs	Classification of Software Frameworks Utilised in Water Resource Management Modelling RMM Pradeep and A Edirisuriya
0904 – 0916 Hrs	Information Management for Sri Lankan Vegetable Farmers: Effectiveness of ICT Applications SI Baddegamage, LNC De Silva and MDJS Goonetillake
0916 – 0928 Hrs	Effort Estimation in Agile Software Development: An Empirical Study in the Sri Lankan Context JAN Erangika, GACA Herath, and RMKT Rathnayake
0928 – 0940 Hrs	The Role of Workplace Cyber Incivility and Personality Traits on Employee Knowledge Sharing Behaviour PRD Wijesingha and RPS Kathriarachchi
0940 – 0955 Hrs	Question and Answer Session
0955 – 1000 Hrs	Summing up by the Chair
1000 – 1030 Hrs	Refreshments

COMPUTING

Technical Session I: Parallel Session II - Artificial Intelligence and Data Science for Smart Integration of the Technology for New Normal

Venue: LT 03 - 3rd Floor, Faculty of Medicine

Chairperson	Dr (Ms) DDM Ranasinghe
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0852 Hrs	Hatred Comments Detection in Twitter using Deep Learning KR Hingurage and DS Vithanage
0852 – 0904 Hrs	Binary and Multi - Class Classification Using Supervised Machine Learning Algorithms and Ensemble Model H Asela
0904 – 0916 Hrs	Communication Platform for Sri Lankan Board Game Nerenchi ABTMAS Bandaranaike and B Hettige
0916 – 0928 Hrs	Artificial Intelligence in the Criminal Justice System: A Literature Review and a Survey NA Wickramarathna and EATA Edirisuriya
0928 – 0945 Hrs	Question and Answer Session
0945 – 1000 Hrs	Summing up by the Chair
1000 - 1030 Hrs	Refreshments

COMPUTING

Technical Session II: Parallel Session I - IT for Disruptive Innovations

Venue: LT 02 - 3rd Floor, Faculty of Medicine

Chairperson	Dr (Mrs) JA Jeewani
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1052 Hrs	A Novel Personalized Mobile Application for Systematically Monitoring Cash Transactions PWJC Withana, GAI Uwanthika and IA Wijethunge
1052 – 1104 Hrs	Implementation of Smart Pet Care Applications in an IoT Based Environment WLSV Liyanage and N Wedasinghe
1104 – 1116 Hrs	Optimum Waste Collection System with Smart Mobile Application KPMK Leelarathne, RT Niroshan and LP Kalansooriya
1116 – 1128 Hrs	Mobile-Based Feedback System for Undergraduates, Academic and Administrative Staff of Higher Education Institutes in Sri Lanka S Mendis, S Wickramasinghe and S Hettiarachchi
1128 – 1140 Hrs	Automated Software Bug Management System for Small-Scale Organization SMKH Hemali and TGI Udayangi
1140 – 1155 Hrs	Question and Answer Session
1155 – 1200 Hrs	Summing up by the Chair
1200 – 1300 Hrs	Lunch

COMPUTING

Technical Session II: Parallel Session II - Role of E-Learning and Cyber Security in the New Normal

Venue: LT 03 - 3rd Floor, Faculty of Medicine

Chairperson	Professor S Vasanthapriyan
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1052 Hrs	Investor oriented Stock Market Portfolio Management and Stock Prices Prediction Platform for Colombo Stock Exchange of Sri Lanka VSS Nanayakkara, DU Vidanagama and WAAM Wanniarachchi
1052 – 1104 Hrs	Factors Causing Less Student-Teacher Interaction in Virtual Classrooms & Video Conferencing in Distance Learning: A Review AHT lakshan, TGI Udayangi and WMSRB Wijayarathna
1104 – 1116 Hrs	An E-Learning Platform for Hearing Impaired Children MMK Rowel, ADAI Gunasekara, GAI Uwanthika and DB Wijesinghe
1116 – 1128 Hrs	An Experimental Study on Computer Based Virtual Classroom Learning and Its Impact on Student Performance Based on Sri Lankan University Students RMS Veronika and PADACS Jayathilaka
1128 – 1140 Hrs	Student Activitiy Detecting and Reporting System for Online Learning Platforms AHT lakshan and TGI Udayangi
1140 – 1155 Hrs	Question and Answer Session
1155 – 1200 Hrs	Summing up by the Chair
1200 – 1300 Hrs	Lunch

COMPUTING

Technical Session III: Parallel Session I - IoT and Networking for Smart Society

Venue: LT 02, 3rd Floor, Faculty of Medicine

Chairperson	Dr DAS Atukorale
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1322 Hrs	Comparison of Trilateration and Supervised Learning Techniques for BLE Based Indoor Localization MWP Maduranga, D Ganepola and RPS Kathriarachchi
1322 – 1334 Hrs	An Approach to Design a Smart Helmet using Kansei Engineering TA Gamage, WNS Dabarera, EMNM Ekanayake, PJMSG Jayasinghe, AMPDS Chathuranga, RLBJS Jayawardhana and P Kalansooriya
1334 – 1346 Hrs	Mobile Applications for Precision Agriculture Practices: A Review JSANW Premachandra and PPNV Kumara
1346 – 1358 Hrs	Mobile-Based Animal Vaccination System for Sri Lanka P Senanayake, S Wickramasinghe and S Hettiarachchi
1358 – 1410 Hrs	Network Infrastructure Monitoring Tool for Small and Medium Scale Enterprises. HPAI Pathirana, VB Godagama, HKSH Premadasa and RLW Koggalage
1410 – 1430 Hrs	Question and Answer Session
1430 – 1500 Hrs	Summing up by the Chair
1500 – 1530 Hrs	Refreshments

COMPUTING

Technical Session III: Parallel Session II - Machine Learning for Smart Integration of Technology

Venue: LT 03 - 3rd Floor, Faculty of Medicine

Chairperson	Professor RM Kapila Tharanga Rathnayaka
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1322 Hrs	Sound Events Recognition and Classification Using Machine Learning Techniques SBK Karunaratna and MWP Maduranga
1322 – 1334 Hrs	A Machine Learning Approach for Detecting Credit Card Fraudulent Transaction RMSM Nimashini, RMKT Rathnayake and WU Wickramaarachchi
1334 – 1346 Hrs	Neural Network Based Weight Prediction System for Bariatric Patients WMCDK Weerakoon and WPJ Pamarathne
1346 – 1358 Hrs	Special Event Item Prediction System for Retails – Using Machine Learning Approach WHTM Alwis and WPJ Pamarathne
1358 – 1410 Hrs	Prevention of Cyber Bullying using Machine Learning Techniques GMSN Gunawardana and WMKS Ilmini
1410 – 1430 Hrs	Question and Answer Session
1430 – 1500 Hrs	Summing up by the Chair
1500 – 1530 Hrs	Refreshments

COMPUTING

Technical Session IV: Parallel Session I- Smart Integration of ICT for Health care

Venue: LT 02, 3rd Floor, Faculty of Medicine

Chairperson	Dr Ruwan Wickramarachchi
1500 – 1505 Hrs	Introduction of the Chair
1505 – 1510 Hrs	Preliminary Remarks by the Chair
1510 – 1522 Hrs	Automated Hospital Clinic Management System for Private Hospitals WAN Malshani and WAAM Wanniarachchi
1522 – 1534 Hrs	Cloud-Based Realtime Emergency Medical Service Platform KL Siriwardena, TL Weerawardane and GAI Uwanthika
1534 – 1546 Hrs	Finding the Best Feature Selection Method for Dengue Diagnosis Predictions R Lathesparan, RMKT Rathnayaka, and WU Wickramaarachchi
1546 – 1558 Hrs	A Mobile Application for Blood Transfusion in Sri Lanka for Emergency Cases Based on Government Hospitals KCM de Alwis, EMSK Ekanayake, MMNH Bandara and D Ganepola
1558 – 1610 Hrs	Smart Hospital Diabetic Clinic Patient Management System MADL Madushika, GAI Uwanthika and WPJ Premarathna
1610 – 1622 Hrs	ETU Management and Patient Tracking System NHLC Yapa and WPJ Pamarathne
1622 – 1640 Hrs	Question and Answer Session
1640 – 1645 Hrs	Summing up by the Chair

COMPUTING

Technical Session IV: Parallel Session II - Natural Language Processing for Sustainability in the New Normal

Venue: LT 03, 3rd Floor, Faculty of Medicine

Chairperson	Eng Associate Prof Sanath Jayasena
1500 – 1505 Hrs	Introduction of the Chair
1505 – 1510 Hrs	Preliminary Remarks by the Chair
1510 – 1522 Hrs	Image Captioning in Tamil Language with Merge Architecture G Rajalingam and WU Wickramaarachchi
1522 – 1534 Hrs	Comparison of Machine Learning Classifiers for Sentiment Analysis in Hotel Reviews PLU Kaushalya and WU Wickramaarachchi
1534 – 1546 Hrs	Three Address Code Based Semantic Processor for Sinhala IWMHD Bandara, B Hettige, DDM Ranasinghe
1546 – 1558 Hrs	A Review of Agent-Based Frameworks for Information Retrieval G Gayamini and NT Jayathilaka
1558 – 1610 Hrs	Building a Sinhala-English Parallel Corpus for Neural Machine Translation Based on Exam Questions MRM Rilfi, UGYM Gunawansha, KAC Prasandika and KGA Chandrani
1610 – 1630 Hrs	Question and Answer Session
1630 – 1645 Hrs	Summing up by the Chair
1645 – 1700 Hrs	Announcement of Best Oral and Poster Awards

BASIC AND APPLIED SCIENCES

Technical Session: Life Sciences I

Venue: LL3 – 4th Floor, Faculty of Medicine

Chairperson	Prof PB Galhena Professor, Department of Biochemistry & Clinical Chemistry, Faculty of Medicine, University of Kelaniya
0830 – 0835 Hrs	Introduction of the Chair
0835 – 0840 Hrs	Preliminary Remarks by the Chair
0840 – 0855 Hrs	Gene Expression Analysis of Human Breast Adenocarcinoma (MCF-7) Cells Treated with a Sri Lankan Red Seaweed <i>Gracillaria edulis</i> (Gmelin) Silva MDTL Gunathilaka, KW Samarakoon, P Ranasinghe, LCD Peries
0855 – 0910 Hrs	Molecular Docking Analysis of Novel Angiotensin-I Converting Enzyme (ACE) Inhibitory Peptides Isolated from Cultured Marine Microalga, <i>Nannochloropsis oculata</i> KW Samarakoon, YJ Jeon
0910 – 0925 Hrs	Insights from Computational Approach to Predict the Inhibitory Efficacy of the HDAC Inhibitor on HDLP Enzyme R Dushanan, MSS Weerasinghe, DP Dissanayake, R Senthilnithy
0925 – 0940 Hrs	Targeting HER2 Positive Breast Cancer Cells by Affibody Labelled, Gefitinib Loaded Apoferritin Nanoparticles AI Kuruppu, L Zhang, L Turyanska, N Thomas, TD Bradshaw
0940 – 0955 Hrs	Determine the Reference Intervals of Selected Tumor Markers Using Selected Healthy Adult Population in Sri Lanka DRM Panagoda, GHRE Karunaratne, V Abeysuriya and L Chandrasena
0955 – 1010 Hrs	Summing up by the Session Chair
1010 – 1030 Hrs	Refreshments

BASIC AND APPLIED SCIENCES

Technical Session: Life Sciences II

Venue: LL3– 4th Floor, Faculty of Medicine

Chairperson	Prof (Mrs) PA Paranagama Senior Professor & Chair of Chemistry, Department of Chemistry, Faculty of Science, University of Kelaniya
1030 – 1035 Hrs	Introduction of the Chair
1035 – 1040 Hrs	Preliminary Remarks by the Chair
1040 – 1055 Hrs	Comparative Study on Functional Properties of Insoluble Dietary Fiber Extracted from Bark Waste of Cinnamon (<i>Cinnamomum zeylanicum</i>), Refuse Tea (<i>Camellia sinensis</i>) and Empty Fruit Bunch Residue of Oil Palm (<i>Elaeis guineensis</i>) MGOS Thilakarathne, JK Vidanarachchi, SP Kodithuwakku, SMC Himali and LHMPR Lansakara
1055 – 1110 Hrs	Effect of Total Mixed Ration (TMR) Briquette on Milk Yield, Composition and Sensory Properties of Cow Milk RHWM Karunanayaka, WAD Nayananjalie, WVVR Weerasingha, MAAP Kumari, AMJB Adikari, SC Somasiri
1110 – 1125 Hrs	Assessment of the Phosphate Solubilization Ability of Nitrogen Fixing Rhizobia (<i>Bradyrhizobium japonicum</i>) PAIU Hemachandra, S Niraula, M Rose, S Ruesewald, C Phan, WS Chang
1125 – 1140 Hrs	Antioxidant Capacity of Water and Methanol Extracts of <i>Vigna mungo</i> (Black Gram) Cultivated in Sri Lanka G Nirubalini, KDKP Kumari, LV Athiththan
1140 – 1155 Hrs	Summing up by the Session Chair
1155 – 1300 Hrs	Lunch

BASIC AND APPLIED SCIENCES

Technical Session: Life Sciences III

Venue: LL3 – 4th Floor, Faculty of Medicine

Chairperson	Prof (Mrs) Preethi Udagama Senior Professor, Department of Zoology and Environment Sciences, Faculty of Science, University of Colombo.
1300 – 1305 Hrs	Introduction of the Chair
1305 – 1310 Hrs	Preliminary Remarks by the Chair
1310 – 1325 Hrs	Bayesian Secondary Structure Assignment of Human Activating Signal Co-integrator 1 Complex Subunit 2 (ASCC2): Structural Architecture for Somatic Cancer Prophylaxis and Therapy S Suthaharan, R Balakumar and S Mohan
1325 – 1340 Hrs	Variation in Avifaunal Diversity and Composition along a Land Use Gradient in Kandy, Sri Lanka MHA Haseena, TSP Fernando, VK Fernando and DD Wickramasinghe
1340 – 1355 Hrs	Satellite Remote Sensing Observations of the Changes of Night Lighting in the Hambantota Area WPTA Perera, D Wickramasinghe and DDGL Dahanayaka
1355 – 1410 Hrs	Assessment of Freshness of Skipjack Tuna (<i>Katsuwonus pelamis</i>) Harvested in Multi-Day Boats in Mirissa Fishery Harbour in Sri Lanka MSA Perera, MGCR Wijesinghe, KGS Nirbadha, P Ginigaddarage, MAAP Kumari and KWS Ariyawansa
1410 – 1425 Hrs	Vocal Divergence in a Group of Divergent Forest Babblers in Sri Lanka IU Peiris and SS Seneviratne
1425 – 1440 Hrs	Summing up by the Session Chair
1440 – 1500 Hrs	Refreshments

BASIC AND APPLIED SCIENCES

Technical Session: Physical Sciences

Venue: LL3 – 4th Floor, Faculty of Medicine

Chairperson	Prof RMKT Rathnayaka Professor, Department of Physical Sciences & Technology, Faculty of Applied Sciences, Sabaragamuwa University of Sri Lanka
1500 – 1505 Hrs	Introduction of the Chair
1505 – 1510 Hrs	Preliminary Remarks by the Chair
1510 – 1525 Hrs	Effects of Skill Program to Decision Making: Comparison between Prohibited Substance (Recreational Drugs) Addicted and Non-Addicted Young Rugby Players in Sri Lanka SKIUK Senarath and S Sriharan
1525 – 1540 Hrs	Analyzing the Service Performance of a Post Office in Kurunagala District: A Case Study MAN Perera, BMMT Bandaranayake, KHMSD Goonatillake, MASD Premarathne and BMAM Balasooriya
1540 – 1555 Hrs	Analyzing the Service Performance of Gampaha Railway Ticket Counters by Simulation: A Case Study PL Wanniarachchi, KAAR Kumara, AMCS Athapaththu, AST Athukorala and WMAM Weerasinghe
1555 – 1610 Hrs	Design and Development of Multipurpose Measurement Wheel for Road Data Collections and Analysis A Pallegedara, KVDSL Pathamasiri, S Maduranga and NR Indika
1610 – 1625 Hrs	Analysis of Selected Physiological Parameters of an Elite Male Triathlete in Sri Lanka MKK Perera, LRND Weeraratne
1625 – 1640 Hrs	Summing up by the Session Chair
1640 – 1650 Hrs	Announcement of Best Oral and Poster Awards

POSTER PRESENTATIONS

9th September 2021

DEFENCE AND STRATEGIC STUDIES

“Online Learning”: It’s Effectiveness and Challenges Faced by the Students

G Peiris

Nuclear Learning in South Asia

MGL Sujatha and KSC Silva

Diplomatic Immunity in the 21st Century: An Analysis of its Application

WMD Wijekoon

Threats and Challenges in Drug Trafficking as a Maritime Crime: An Analysis of the Western Indian Ocean Region

GWS Kusalya

Impact of Covid -19 on Sri Lanka’s Tourism Industry: Economic Implications

CL Silva

Achieving Sustainable Development Goal 2: Challenges Encountered during the COVID-19 pandemic

B Senaratne and NR Dinethri

An Analysis on Cosmopolitanism in Colonial Sri Lanka with Special Reference to Kandyan Period

PMP Aloka

The COVID-19 Pandemic in South Asia: An Analysis of China’s Medical Assistance

B Senaratne and C Ekanayake

Russia - Ukraine Relations Since 2014

D Samaragunaratna

Power Rivalry in the Indian Ocean Region: Examining the Impact on Sri Lanka

HS Wijesinghe

Victims and Perpetrators: Plight of the Child Soldiers in the Eyes of Law

CLCM Patabendige

MEDICINE

Evolution of Fatal Lung Damage in COVID 19

SD Arachchi and R Ruwanpura

Knowledge and Awareness of COVID-19 among Third and Fourth Year Medical Students in General Sir John Kotelawala Defence University

C Zangmo, PMD Wijayasuriya, MZ Zareer, T Yangzom, AM Wijemanna, S Wijayapalan, IGK Yahampath, HSN Wijethunga, DGND Wijedasa, AD De Silva and A Balasuriya

Development of Remote Controlled Smart Appliance for Medical Support and Assistance – COVID-19 (MEDiMATE)

LS Dayasiri and KK Bombugalage

Effect of Environmental Temperature in the Spread of COVID-19 with Reference to the 2nd Wave in Sri Lanka

BCIJ Nanayakkara, C Sooriyabandara and DBYJ Kumari

Epidemiological Study: Performing a SARS CoV-2 PCR Test Prior to Chemotherapy and Effects on Treatment Outcome During the COVID-19 Pandemic

SL Malaviarachchi, J Balawardane, NRP Perera, AN Senanayake, H Jayalath, R Samarasinghe and S Liyanage

A Rare Complication of Three Field Oesophagectomy

VS Thuduvage, DSP Pullaperuma, ST De Silva, AN Senanayake and NRP Perera

Unusual Presentation of Actinomycosis in Oropharynx: A Case Report

VS Thuduvage, WMID Nakkawita, IHS Kumarasinghe, S Pathirage, HTRW Dissanayake and WMDKB Weerasinghe

***Hymenolepis diminuta* Infection Clinically Presented as Acute Appendicitis: A Case Report**

LI Madaluwage, GM Jayaweera, HMIL Wijesinghe, RAS Rathnayake and S Samarasinghe

Macroductyly of Foot – A Rare Congenital Malformation: A Case Report

LI Madaluwage, GM Jayaweera, HMIL Wijesinghe, GK Rajapaksha and MDLO Peiris

Secretory Carcinoma of Salivary Gland- Recently Described Rare Entity: A Case Report

LI Madaluwage, GM Jayaweera, HMIL Wijesinghe and HMSI Ranaweera

Retromolar Monophasic Synovial Sarcoma: A Rare Entity

IHS Kumarasinghe and H Jayalath

Pedunculated Leiomyoma within an Ovarian Endometriotic Cyst

IHS Kumarasinghe, K Kathriarachchi and CD Ekanayake

Adenocarcinoma of the Urinary Bladder: A Diagnostic Dilemma

IHS Kumarasinghe and RE Wickramarachchi

Carpal Tunnel Syndrome with Negative Nerve Conduction Studies- Preliminary Experience of a Case Series of Surgical Decompression

KSR Pushpakumara

Prevalence and Patterns of Self-Medication of Antibiotics among Medical, Allied Health Sciences and Non-Medical Students at General Sir John Kotelawala Defence University

ACS Kurukulasuriya, WATS Kulathilake and DM Munasinghe

Quality of Laboratory Request Forms Received at the Chemical Pathology Laboratory, National Cancer Institute Maharagama

VJK Jayawardena, YA Jayawardena, KUGC Kavindya, KAGSK Kaluarachchi, MKDN Jayasekara, SN Kaluarachchi, SWAU Karunathilake and GDI Rodrigo

Perception of Medical Students Regarding Career Guidance Programmes

VS Thuduvage and L Gurusinghe

Awareness of Sexually Transmitted Infections among Advanced Level Students, Attending Tuition Classes in Nugegoda, Sri Lanka

HMSA Herath, PWSV Fernando, DWY Mahanama, BDSB Bandara, S De S Nagahawatte and NS Fernando

Health Status and Safety Practices of Workers of Asbestos Sheet Manufacturing Factories in Sri Lanka

KAC Wickramaratne, S Gunawardena, DC Wijewickrama, A Karunanayake and WMCD Wijekoon

Knowledge of the Disease and Practices Related to Use of Inhalers in Elderly Chronic Obstructive Pulmonary Disease (COPD) Patients Attending Chest Clinics

KKL Akalanka, P Gurung, S Hamdhoon, WMCS Fonseka, WGGAN Gurusinghe, WGGAB Gurusinghe, M Harrsan and MMPT Jayasekera

An Observational Study on Blood Supply to meet the Demand at University Hospital, KDU

WAS Fernando and TI Withanawasam

Effect of Virechana Karma using Eranda Taila, Followed by Murva Dahaya Kashaya, Bimtambaru Sweda and Bimtambaru Patra Lepa on Rheumatoid Arthritis (Amavata) –A Case report

GTSR De Silva and ERHSS Ediriweera

Optimization of Quantitative PCR for Amplification of Single Stranded DNA Library

AI Abeykoon, KMN Kumarasinghe, NV Chandrasekharan and PMTB Wickramasinghe

ENGINEERING

Drop Down in Speed of Fast Attack Craft

LDTKD Lokudadalla

A Sustainable Future for Rubber Waste in Sri Lanka

VL Kuruwita Arachchi and DDTK Kulathunga

Deep Learning Based Cell Classification for Future Vision Implemented Lab-on-a-Chip Devices

AP Mudugamuwa, SP Hettiarachchi, NHRG Melroy and YWR Amarasinghe

Development of a Smart Cricket Bat Concept to Characterize the Orientation in Three-dimensional Space

P Karunaratne, S Gajanayake and S Fernando

Study of Estimating Greenhouse Gas Emission from Healthcare Solid Waste Management

AID Gamage and MB Samarakoon

Design of a Plastic Waste Clean-up Array System for Bolgoda Lake

N Azmy, PGRW Premaratne, WAAR Wanasekara and MCP Dissanayake

Advancements of Electronic Stethoscope: A review

HSH Perera

Analysis of the Potential Use of the Anaerobic Digester to Treat the Food Waste at KDU Cadets' Mess

SAAAK Athukorala, RMPS Bandara and MSR De Soyza

LAW

The Need of Blockchain Law in a Cryptocurrency-Based Future: Potential and Possibility of a Purely Blockchain Entity

M Karunanathan and FAM Imthiyaz

A Comparative Literature Review of the Contribution of Transgender Rights in the Legal Context of India and Sri Lanka

DN Kularathna and SASP Hansitha

Child-Friendly Justice and the Best Interest of the Child: A Comparative Analysis of Sri Lanka, India, and International Standards

BMP Bandaranayake

A Comparative Analysis of Medical Negligence Compensation in Sri Lanka for the Protection of Patients

HLNS Chandrasiri

Legal Spotlight for Resilience of COVID-19: Public Nuisance in Workplaces

AP Vithanage

ALLIED HEALTH SCIENCES

Critical Results Management Practices of the Medical Laboratory Technologists in the Southern Province, Sri Lanka

AADS Amarasingha, GLJ Kalana, LKCK Senevirathna and WVRTDG Bandara

Investigation of *In-vitro* Antibacterial Properties of Human Cerumen of Healthy Individuals Attending the National Hospital of Sri Lanka

DS Nadeesha, KAKN Gunawardane, KKAN Karunarathna, WD Ratnasooriya, RD Widanagamage and C Jayasuriya

Gender-wise Variation in the Delivered Radiation Dose during Common X-ray Procedures. A Preliminary Study

DM Satharasinghe, WMNMB Wanninayake, AS Pallewatte and J Jeyasugiththan

Evaluation of *In vitro* Anti-inflammatory Activity of Ethanol and Aqueous Extracts of the Whole Plant of *Cardiospermum Halicacabum*

WM Pabasara, GLGS Liyanage, DMRB Thanayamwatte, RGWDB Rajapaksha, RN Pathirana, MA Siriwardhene and ARN Silva

Evidence-Based Intrapartum Care in Vaginal Births: Direct Observations in a Tertiary Care Hospital in Sri Lanka

BRGTK Weerasinghe, RM Abeyrathne, S Tennakoon and RMCJ Ratnayake

Preparation, Characterization, and *In vitro* Releasing of Microcapsules Loaded with *Bridelia Retusa* Aqueous Bark Extract for Treatment of Rheumatoid Arthritis

PCR Peiris, BAUN Wijayawickrema, BLC Samanmali and DC Manatunga

Comparative Evaluation of Metformin Hydrochloride Brands Available in Sri Lanka

EMMS Lakmali, M Thanujah, S Thuvaragan and KDA Kuruppu

Relationship between Unexplained Infertility and Sedentary Lifestyle among Women in the Urban City of Colombo; Infertile Female vs. Fertile Female

MMVK Manike, P Darshika, HPPM Karunarathne, MN Priyadarshanie and RC Fernandopulle

Impact of Short-Term Yoga and Mindfulness Based Stress Reduction Programme on Health-Related Quality of Life of Treatment Seeking Patients with Cardiovascular Diseases

N Mahindakumar, HMTL Hitinayaka, HAM Hettiarachchi, TPSW Gunaratne, KGG Priyangika and A Balasuriya

Relationship between Postural Balance and Falls in Elderly People in Two Selected Elderly Homes in Colombo District

IM Kandege, LGO Pramodhya and GAD Perera

Differences in BMI, Physical Activity Level and Diet of Healthy People and People with Lower Back Pain

KMCP Rathnayake, SNMWL Semasinghe, KAMC Rathnapala, C Nanayakkara and S Sukirthan

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