

International Symposium of Rajarata University 2021  
(ISymRU 2021)

*“Research and Innovation Towards Global Sustainability  
Through Rural Empowerment”*

# Programme

**21-22 December 2021**



Rajarata University of Sri Lanka

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Technical Sessions .....	27
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## Overall Programme

Time	Day 1 - December 21st				Day 2 - December 22nd			
08.00 - 08.30	<b>Inauguration Ceremony</b>				<b>Keynote: Prof. Deepika Udagama &amp;</b> TS10: Social Science and Humanities	CS 2: Agriculture	TS 12: Interdisciplinary Studies	TS 13: Basic and Applied Sciences
08.30 - 09.00						TS 11: Medicine and Public Health	PS 4: Interdisciplinary Studies	
09.00 - 09.30								
09.30 - 10.00								
10.00 - 10.30								
10.30 - 11.00	TS 1: Mathematics Statistics and Data Science	PS 1: Education, Poster	TS 2: Management and Economics	PS 2: Basic and Applied Sciences	TS 14: Social Science and Humanities	TS 15: Medicine and Public Health	TS 16: Education, Language and Distance Learning	TS 17: Basic and Applied Sciences
11.00 - 11.30								
11.30 - 12.00								
12.00 - 12.30	Lunch				Lunch			
12.30 - 13.00								
13.00 - 13.30	CS 1- Mathematics Statistics and Data Science	TS 4: Medicine and Public Health	TS 5: Management and Economics	<b>Keynote: Prof. Yuansong Wei &amp;</b> TS 6: Engineering and Technology	TS 18: Social Science and Humanities	PS 5: Medicine and Public Health	TS 19: Education, Language and Distance Learning	TS 20: Basic and Applied Sciences
13.30 - 14.00								
14.00 - 14.30	TS 3: Agriculture	TS 8: Medicine and Public Health	TS 9: Management and Economics	PS 3: Engineering and Technology	PS 7: Social Science and Humanities		TS 22: Education, Language and Distance Learning	TS 23: Basic and Applied Sciences
14.30 - 15.00								
15.00 - 15.30								
15.30 - 16.00	TS 7: Agriculture							
16.00 - 16.30								
16.30 - 17.00					<b>Closing Ceremony</b>			

TS – Technical Session (Oral only), PS – Poster Session (Poster only), CS – Combined Session (Oral and Poster)

## Track: Agriculture

Chair*	Prof. W.A.D. Nayananjali
Discussants*	1. Prof. Janaka Gunarathna 2. Dr. Chinthaka Karaliyadda

\* The panel will cover all technical/poster/combined sessions of this track

## Technical Sessions

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09">https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09</a> (Session 1)				
Passcode: 930715				
Session	Time	Title	Authors	Page Number
TS3	14.00 - 14.20	Adoption of Rubber Harvesting Technologies by Self-Latex Harvesters: A Case Study in Moneragala District of Sri Lanka	Gunarathne P.K.K.S., Tennakoon T.M.S.P.K. and Edirisinghe J.C., Jayasundara K.K.I.	3
	14.20 - 14.40	Submergence Tolerance and Survival Mode of Twenty-Six Traditional Rice Accessions at the Seedling Stage	Shyamalee H.A.P.A and Ranawake A. L	4
	14.40 - 15.00	Evaluation of Chemical and Sensory Qualities of Mixed Fruit Jam Made from Blended Pineapple and Papaya Incorporated with Aloe Vera	Basary M.R.H., Premakumar K. and Afreen S.M.M. S.	5
	15.00 - 15.20	Determination of the Combined Effect of Selected Parameters Affecting the Quality Retention of a Ceylon Black Tea Blend	De Silva K.T.I., Karunathilake V. , Ekanayake E.S.K., Fernando K.R. and Mendis B.E.P.	6
	15.20 - 15.40	Determination of an Optimum Warehouse Storage for Better Quality Retention of a Blended Ceylon Black Tea Standard	Fernando A.L.H.M., Karunathilake V. , Fernando K.R., Ekanayake E.S.K. and Mendis B.E.P.	7
TS7	15.40 - 16.00	Development of an Antioxidant Enriched Jam Using Soursop ( <i>Annona muricata</i> ),	Gunathilaka N.D.D.M., Ellepolva V.P., Kahandage	8

		Winter Melon ( <i>Benincasa hispida</i> ) and Green Tea	K.P.M. and Wijesinghe W.A.J.P.	
	16.00 - 16.20	Designing and Budgeting of a Walk-in Polytunnel to Raise Ornamental Crops in Ampara District	Sujanthika V and Nashath M.N.F and Akram A.T. A	9
	16.20 - 16.40	Identification and Characterization of a Mutation in the SLR1 and GA3ox2 Genes in Two Mutant Dwarf Rice Varieties Obtained from an Improved Local Variety	Chandrasekara T. M. Abeysirwardena D.S. de. Z. and Dhanapala M. P. C. S.	10
	16.40 - 17.00	Animal-based Organic Substrate for Oyster Mushroom ( <i>Pleurotus ostreatus</i> ) Cultivation in Sri Lanka	Ruhunuge I. J. A., Malhara M. K. I., Kirthisinghe J. P and Wimalasiri E. M	11

## Combined Session

Date: 22 <sup>nd</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09">https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09</a> (Session 2)				
Passcode: 940234				
Session	Time	Title	Authors	Page Number
CS 2	08.00 - 08.20	(Oral) Domestic Floriculture Trade: A Case Study from Polonnaruwa	D.H.S.D Dandeniya, V.N. Kodithuwakkuge and C.K. Beneragama	12
	08.20 - 08.40	A Comparative Analysis of Vitamin C Content in Fresh Juices and Branded Fruit Nectars in Sri Lanka	Banu M.S.S., Patirana K.P.A.D., Thennakoon T.M.C.M., Gimhani K.H.I. and Bandara W.M.M.D.	13
	08.40 - 09.00	(Oral) Economic Loss of Chronic Kidney Disease of Unknown Etiology; A Case Study in Madawachchiya DS division in Sri Lanka	De Alwis D.R.H., Senaratne A., Dissanayake S.N	14
	09.00 - 09.15	(Poster) Socio-Cultural Parameters Associated with Purchasing Patterns of Meat and Meat Products: A Case Study in Kurunegala District, Sri Lanka	Rodrigo S.A.C.H., Nuwarapaksha T.D. and Liyanage K.L.D.B.P.	15

## Track: Basic and Applied Sciences

Chair*	Prof. Sanath Hettiarachchi
Discussants*	1. Dr. Subramaniam Prabagar 2. Dr. Eustace Y. Fernando

\* The panel will cover all technical/poster/poster/combined sessions of this track

## Poster Session

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHYldLV01XeEFKSk0dz09">https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHYldLV01XeEFKSk0dz09</a> (Session 4)				
Passcode: 831315				
Session	Time	Title	Authors	Ref to Proceedings
PS 2	10.30 - 10.45	Trend Analysis of Rainy Days of Kandy in Sri Lanka	Wijerathna L. P. S. D. N. , Meegahakotuwa U. S	39
	10.45 - 11.00	Magnetically Retrievable Iron Oxide Nanoparticle Platform for Biosensor Development	Gaminda K. A. P.I, Abeysinghe D. T. , Jayasinghe C. D. , Senthilnithy R.	40
	11.00 - 11.15	Identification of Suitable Substitutes for Calcium nitrate Usage in Coir Substrates Industry	Kanchana G. S. , Rathnayaka K. R. M. R. B., Lochana E. A. L., Premathilaka U. G. A. T	41
	11.15 - 11.30	Effect of <i>Cyclea peltata</i> (Kahipiththan) on Human Blood Coagulation	Wanigasekara A. M. D. N. , Lokuwalpola D. V., Premasinghe B. G. N. R. M., Karunaratne E.D.C	42
	11.30 - 11.45	Extraction Methods for Pectin from Fruit Wastes – A Review	Prabuddhi A. P. R. , Dissanayaka D. M. U. P., Sandamini A. A. D. T., Gimhani K. H. I.	43

## Technical Sessions

Date: 22 <sup>nd</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHdLV01XeEFkSktOdz09">https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHdLV01XeEFkSktOdz09</a> (Session 4)				
Passcode: 831315				
Session	Time	Title	Authors	Page No
TS 13	08.00 - 08.20	Fermented Oyster Extract-induced Osteoblast Differentiation and Bone Formation by Activating the Wnt/ $\beta$ -catenin Signaling Pathway	Molagoda I. M. N., Jayasooriya R. G. P. T., Choi Y. H., Kim G. Y.	18
	08.20 - 08.40	Anti-melanogenic Effects of Anthocyanin-enriched Polyphenols from Hibiscus syriacus L. by Activating the ERK Signaling Pathway	Karunaratne W. A. H. M. , Jayasooriya R. G. P. T., Choi Y. H., Kim G. Y.	19
	08.40 - 09.00	An Aqueous Extract of Freeze-Dried <i>Protoetia brevitarsis</i> Larvae-induced Immunostimulation by Activating the NF- $\kappa$ B Signaling Pathway	Jayasingha J. A. C. C., Jayasooriya R. G. P. T., Choi Y. H., Kim G. Y.	20
	09.00 - 09.20	Gamma-Aminobutyric Acid (GABA)-induced Growth Performance in Zebrafish Larvae via GABAA and GABAB Receptors	Athapaththu A. M. G. K., Jayasooriya R. G. P. T., Choi Y. H., Kim G. Y.	21
	09.20 - 09.40	Indirubin-3'-Monoxime-Induced Paraptosis by Transmitting Ca <sup>2+</sup> From Endoplasmic Reticulum to Mitochondria	Kavinda M. H. D., Jayasooriya R. G. P. T., Choi Y. H., Kim G. Y.	22
TS 17	09.40 - 10.00	In silico investigation of binding properties of steroids molecules interacting with Androgen receptor	Illangasinghe J.L.K. and Weerasinghe S.	23
	10.00 - 10.20	Academic, Athletic and Career Athletic Motivation as Predictors of Academic Performance Among Student-Athletes at the University of Peradeniya	Wilwalaarachchi N. K. , Bandara W. and Weerasingha B. R. G. T. K.	24
	10.20 - 10.40	Characterization of Netiyagama Soil (Sri Lanka) for the Fate of Fluoride in Groundwater	Heenkenda K.Y. , Shabnam M.F.A., Jayawardhene G.G.D.P., Rukshagini P.,	25

			Herath A.C. and Weerasooriya R	
10.40 - 11.00	Corrosion Inhibition Ability of Cinnamon Oil on Aluminum in Alkaline Medium	Rajapaksha R. Y. H. and Priyantha H. M. D. N.		26
11.00 - 11.20	Corrosion Inhibition of Mild Steel Using Polyaniline and Clove Oil Composites in Acidic Medium	Wijesundera S. K. and Priyantha N.		27
11.20 - 11.40	Impacts of Knowledge Sharing through Social Networking Services on the Learning Culture of Undergraduates	Bulegodaarachchi G. J. and Deegahawature M. M. D. R.		28

Date: 22<sup>nd</sup> December

Zoom link: <https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHYZlLV01XeEFKSktOdz09>  
(Session 4)

Passcode: 831315

Session	Time	Title	Authors	Page No
TS 20	13.00 - 13.20	Assessment of Hg in Grey heron ( <i>Ardea cinerea</i> ) and Oriental Darter ( <i>Anhinga melanogaster</i> ) Foraging in Mahakanadarawa Tank Ecosystem Anuradhapura	Jayathilake C., Jayaratne R.	29
	13.20 - 13.40	Montmorillonite Clay Modified N-(1-Naphthyl) Ethylenediamine. Dihydrochloride Composites for The Detection Of Nitrogen Dioxide Gas	Kasthuri D. H. , Herath A. C	30
	13.40 - 14.00	Larvicidal efficacy of local plant species for the development of potential larvicidal agents against <i>Aedes aegypti</i> L.	Wijegunawardana N. D. A. D., Ramanayaka R. K. S. N., Wijayawardanap M. P., Weerakkody G. C., Perera E. G., Jayamanna I., de Zoysa I. C.	31
	14.00 - 14.20	Interaction between Graphite Oxide and Sand Granules: The Effect of Temperature	Bandara P.M.C.J. , Kumarasinghe A.R. , Balasooriya N.W.B., Bandara A., Weerasooriya R.	32
	14.20 - 14.40	Removal of Cr(VI) in Aqueous Solutions Using KOH-modified	Hansani S. Amarasuriya and Ajith C. Herath	33



		biochar/ polypyrrole/Al <sub>2</sub> O <sub>3</sub> Composite.		
TS23	14.40 - 15.00	Comparison of Electrocoagulation and Electrolysis Water Treatment Technologies for Dry Zone Groundwater – Sri Lanka	Halpegama J. U. , Nanayakkara K. G. N. , Binghui T. , Herath A. C.1, Weerasooriya R	34
	15.00 - 15.20	The Impact of Quick Change Over on Overall Efficiency in Garment Manufacturing: A Case Study	Weerasinghe W. M. A. M. , Dilanthi M. G. S	35
	15.20 - 15.40	Standardization and evaluation of new herbal immune booster drink ‘Suraksha’	Wijegunawardana N. D. A. D. , Gunawardhana S. S., Gunawardhana K. P. S., Gunawardhana, S. S., Ratnayake H.	36
	15.40 - 16.00	Assessment of some toxic metals of commonly consumed rice by ICP-MS and their impact on human health	Senarathne E. M. N. S. , Edirisinghe E. M. R. K. B	37
	16.00 - 16.20	Development of Blue Pea Flower Extract Incorporated Set Yoghurt	Jayathissa R.P.S.D. , Kularathne W.P.P., Peiris T.S.K., Harthika M.,	38

## Track: Education, Language and Distance Learning

### Poster Sessions

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09">https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09</a> (Session 2)				
Passcode: 940234				
Chair - Dr. P. B. Nuwan Abeywardana				
Discussants - Dr. W.K.D. Keerthirathne / Ms. Apsara Widanapathirana				
Session	Time	Title	Authors	Ref to Proceedings
PS 1	10.30 - 10.45	Impact of Covid – 19 on Online English Language Teaching in Dahanekegedara Region	Kumari S. H. M. D. N	61
	10.45 - 11.00	Causes of poor academic performance in English at O/L in Anuradhapura district	Karunaratne W. N.	62
	11.00 - 11.15	Role of Educational Technology in the Teaching and Learning with the special reference on Teaching of Agriculture science in Secondary schools in Jaffna district	Raveendran Y. , Rasanayagam J.	63
	11.15 - 11.30	Educational Reformations of Sir Syed Ahamad Khan in 19th Century	Gorden T.	64
	11.30 - 11.45	An Investigation of the Impact of Undergraduates' Perception of Online Learning among Distance Learners: An Empirical Study	Nisansala K. K. H. P., Ranwella K. B. I. S., Jayasinghe W. A. L. P	65
	11.45 - 12.00	The Relationship between Self-Efficacy Beliefs in Learning English as a Second Language and Achievement of Sri Lankan Undergraduates	Gamage G. D. U. P. K., Gamage G. P	66

## Technical Sessions

Date: 22 <sup>nd</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86770955763?pwd=NzYycjBRNmdqckJKNTd3N2xtU09vZz09">https://us02web.zoom.us/j/86770955763?pwd=NzYycjBRNmdqckJKNTd3N2xtU09vZz09</a> (Session 3)				
Passcode: 230526				
Chair - Dr. Saman Illangarathne				
Discussants - Mr. M.D.S.Shantha Kumara / Dr. P. B. Nuwan Abeywardana				
Session	Time	Title	Authors	Ref to Proceedings
TS16	10.30 - 10.50	A Comparative Study of the Novel Madol Doova by Martin wickramasinghe and its English Translation by Ashley Halpe	Jayasinghe H. S	47
	10.50 - 11.10	A Diachronic Analysis of the 2015 Presidential Election News in Sri Lankan English Newspapers	Nandarathna B. G. D. S. , Samarasinghe A. G. S. M	48
	11.10 - 11.30	Can Documentaries Be Used to Enhance Attitudes and Practices of G.C.E. (A/L) Students Towards Environmental Conservation in Batticaloa, Sri Lanka	Prashanth M. , Gunaratne A. M. T. A.	49
	11.30 - 11.50	Satisfaction of hostel facilities and perceived impact of hostel life; A study conducted among hostel accommodated nursing students in a Government Nursing School, in Sri Lanka	Wijayasundara W. M. S. K. , Rathnayaka R. M. S. I.1, Rathnayaka M. T. N. M.1, Panditharathna P. M. Y. P.1, Rathnayaka R. N. P.	50

Date: 22<sup>nd</sup> December

Zoom link: <https://us02web.zoom.us/j/86770955763?pwd=NzYycjBRNm dqckJKNTd3N2xtU09vZz09>  
(Session 3)

Passcode: 230526

Chair - Dr. Saman Illangarathne

Discussants - Mr. M.D.S.Shantha Kumara / Dr. P. B. Nuwan Abeywardana

Session	Time	Title	Authors	Ref to Proceedings
TS 19	13.00 - 13.20	Impacts of the 13 Years of Guaranteed Education Stream: A Survey of the Students in Kandy District	Jayarathne P. M. G. N. M. , Prabodanie R. A. R	51
	13.20 - 13.40	Subliminal Isolation of the ESL Learner: Mapping the (Un) Conscious Pedagogical Error of Teaching Grammar in Isolation in the ESL Classroom	Kulathunga H. M. C. S. , Hapuarachchi S. S	52
	13.40 - 14.00	Producing Passive Sentences-a Common Issue of Undergraduates	Attanayake A. M. N. R. , Dissanayake K. M	53
	14.00 - 14.20	Understanding Constructive Discrimination between Language Learning Strategies by the Students at Tertiary Level in Sri Lanka	Ekanayake G. B. , Pathmasiri S. R. I. , Lecamwasam D. R	54
	14.20 - 14.40	Effectiveness of conducting Online Objective Structured Practical Examination (OSPE) in Anatomy among 1st Year Medical Undergraduates of University of Peradeniya	Madhushani H. A. U., Dayarathna H. M. N., Fahd M., Dahanayaka S. Y. W., Kaluarachchi K. K. N. T., Herath H. M. G. S., Pahalawattage N. J., Marapana M. D. W. A. B., Kosgallana E. W. , Amaratunga H. A.	55
TS 22	14.40 - 15.00	Students' Acceptance of E-Learning during COVID-19 Pandemic: A Case Study	Dayananda K. S. N. , Jayaweera A	56
	15.00 - 15.20	Attitude of Sri Lankan Performing Arts Undergraduates toward Their University Learning Management System: Implications for Upgrading the System and Its Use for English Language Development	Embogama R. M. S. N	57

15.20 - 15.40	Teachers' Perspective about Delivering Lectures for a Large Group of Foreign Language Learners through Online	Cooray B. M. S	58
15.40 - 16.00	Innovative Strategies to Teach German Novels in a Foreign Language Classroom- A Focus on the Novel "Perfume: The Story of a Murderer"	Wijethilake S. P.	59
16.00 - 16.20	Translanguaging and Its Impact on Second Language Learners of English in Sri Lankan Universities	Gamagedara T. G. S. D	60

## Track: Engineering and Technology

Chair*	Dr. Indrajith Nissanka
Discussants*	Dr. Dilshan Amarasinghe Dr. Naveen Dharmagunawardena

\*The panel will cover all the technical/poster/combined sessions of this track

## Technical Sessions

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHYSk0LV01XeEFKSktOdz09">https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHYSk0LV01XeEFKSktOdz09</a> (Session 4)				
Passcode: 831315				
Session	Time	Title	Authors	Ref to Proceedings
TS 6	13.30 - 13.50	Assessment of RANS Turbulence Models for Prediction of Adiabatic Film Cooling Effectiveness for Shaped Film Holes	Sanjeeva K. P. P. , Ranasinghe R. A. C. P	69
	13.50 - 14.10	Process Simulation-based Life Cycle Mass Flow Analysis for Fuel-grade Bioethanol Production from Water Hyacinth	Abeyasuriya D. I. , De Silva K. I., Wijesekara N. H. S., Sethunga G. S. M. D. P., Rathnayake M	70
	14.10 - 14.30	A Preliminary Study on the pH Compensation Capacity of Encapsulated Calcium hydroxide in the Simulated Concrete Pore Solution	Natkunarajah K. , Masilamani K.1, Maheswaran S.	71
	14.30 - 14.50	Vibration attenuation of Farm Tractor Tiller units for enhanced overall performance	Patirana S. D. , Perera M. , Jayasundara J. W. K. S.3, Wijerathna U. H. G. S. S.	72

## Poster Session

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHlLV01XeEFKSktOdz09">https://us02web.zoom.us/j/81076297066?pwd=QU5kK0M4UEZHlLV01XeEFKSktOdz09</a>				
(Session 4)				
Passcode: 831315				
Session	Time	Title	Authors	Ref to Proceedings
PS 3	15.00 - 15.15	Investigate the Suitability of Pre-Chlorination with Rapid Sand Filtration as the Treatment Method to Remove Selected Physical and Chemical Parameters from Groundwater – A Pilot Study	Sutharsan M. E. , Meegahakumbura S. P. S.	73
	15.15 - 15.30	Prevalence of Unsafe Practices in Air Conditioning and Refrigeration Maintenance Industry in Sri Lanka	Rifan L. M. , Attanayake A. M. R. N. , Wickramasinghe I. P. M.	74
	15.30 - 15.45	Modelling Predictive Assessments of Landslide Vulnerability Based on Rainfall Patterns: A Case Study of Badulla District	Dissanayaka D. M. D. S. K. , Malkanthi A. M. C.	75

## Track: Interdisciplinary Studies

Chair*	Dr. Manoj Fernando
Discussants*	Dr. Ysaswi Walpita Dr. A.A.Thamara Dilhani Amarasekara

\*The panel will cover all the technical/poster/combined sessions of this track.

## Technical Sessions

Date: 22 <sup>nd</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86995023839?pwd=YkZUUHlVzR4ZVNhZTk3K0xYmMjYU09">https://us02web.zoom.us/j/86995023839?pwd=YkZUUHlVzR4ZVNhZTk3K0xYmMjYU09</a>				
Passcode: 825128				
Session	Time	Title	Authors	Ref to Proceedings
TS 12	08.00 - 08.20	Screen Time and Level of Perceived Stress Among Students of University of Peradeniya During Covid19 Pandemic	Muthukumarana P. C. K. , Jayasinghe H. C. B., Nusky M. P. M., Pavithra T., Roshan M. J. M., Senadheera V. V., Prasanna A. L. I.	79
	08.20 - 08.40	Ecological Models to Explain the Distributions of Words in Texts	Punchi-Manage R. , Mapa C. , Madhushani M. , Dilhara M., Karunathilaka P. , Amiyangoda L., Ekenayake U.	80
	08.40 - 09.00	Accounting for Deaths: Calculative Practices for COVID 19 in Sri Lanka	Senevirathne K. M. S. , Samarasiri N. C.	81
	09.00 - 09.20	The Complexity of Research, and Researching Complexity: A Review of the Options	Pradeep R. M. M. , Morris M.	82



## Poster Session

Date: 22 <sup>nd</sup> December				
<a href="https://us02web.zoom.us/j/86995023839?pwd=YkZUUHlVzR4ZVNhZTk3K0xYMmJYUT09">https://us02web.zoom.us/j/86995023839?pwd=YkZUUHlVzR4ZVNhZTk3K0xYMmJYUT09</a>				
Passcode: 825128				
Session	Time	Title	Authors	Ref to Proceedings
PS 4	09.45 - 10.00	Job satisfaction among public sector extension personnel in the smallholder rubber sector: Special focus on the Moneragala District of Sri Lanka	Gunarathne P. K. K. S. , Tennakoon T. M. S. P. K. , Edirisinghe J. C. ,Jayasundara K. K. I.	83
	10.00 - 10.15	Spatial and temporal variation of surface chlorophyll-a and sea surface temperature over coral growing territorial water of Sri Lanka	Thilakarathne E.P.D.N., Liyamage N.P.P.,1 Jayamanne S.C.,1 and Sandamali G.A.J.	84
	10.15 - 10.30	n-Allopathic Covid-19 Self-Management Practices Adopted by Rural Communities in Sri Lanka: Preliminary Findings from A Qualitative Study	Kaludewa H. N. , Agampodi T. C.1, Weerakoon K. G.1, Liyamage C. , Dikomitis L. ,Agampodi S. B.	85

## Track: Management and Economics

Chair*	Prof. P.M.B. Jayathilake
Discussants*	Dr. P.R. Weerathunge Dr. (Mrs.) J.S. Kumari

\*The panel will cover all the technical/poster/combined sessions of this track.

## Technical Sessions

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86770955763?pwd=NzYycjBRNm dqckJKNTd3N2xtU09vZz09">https://us02web.zoom.us/j/86770955763?pwd=NzYycjBRNm dqckJKNTd3N2xtU09vZz09</a> (Session 3)				
Passcode: 230526				
Session	Time	Title	Authors	Ref to Proceedings
TS 2	10.30 - 10.50	Corporate Governance and Corporate Social Responsibility Disclosures: Australian and Sri Lankan Market	Pratheepkanth P.	89
	10.50 - 11.10	Determinants of Board and Audit Committee Meeting Frequency: Evidence from Sri Lanka	Pratheepkanth P.	90
	11.10 - 11.30	Chief Executive Officer's Turnover Announcements and Stock Return: A Case of Sri Lankan Stock Market	Nimalathasan , Ramesh S.	91
	11.30 - 11.50	Exploring the Nexus between Teleworking and Job Satisfaction with Mediating Role of Work Family Conflict during COVID-19 Pandemic	Jayasekara A. J. , Weeraman A. P	92
	11.50 - 12.10	The Linkage between Organizational Commitment and Employee Turnover Intention with Special Reference to Generation Y of ABC Holdings (Pvt) Ltd.	Weerarathna R. S. , Somawardana W. S. D. , Weerasinghe W. A. P. D.	93

Session	Time	Title	Authors	Ref to Proceedings
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TS 5	13.00 - 13.20	Application of DMAIC approach to reduce on-time delivery failures in a fabric printing plant	Fernando H. A. S. and Ranasinghe G. M.	94
	13.20 - 13.40	The Effect of Job Rotation on Career Development of Administrative Staff in Sri Lankan Universities	Wijekoon A. S. K. , Deegahawature M. M. D. R	95
	13.40 - 14.00	E-Interns Job Satisfaction at Work from Home	Chandrasa I. , Liynapathirana Y	96
	14.00 - 14.20	Nexus Between Communication Satisfaction, Organizational Commitment and Organizational Citizenship Behaviour: Case of the Advertising Industry in Kurunegala District, Sri Lanka	Tennakoon W. D. N. S. M. , Gunawardhana G. L. N. M.	97
	14.20 - 14.40	Examine the Impact of Service Quality Dimensions on Customer Satisfaction at Fast Food Outlets in Ratnapura District, Sri Lanka	Jayarathna P. D. N. A. B. , Rathnayaka R. M. D. L.	98
TS 9	14.40 - 15.00	Productivity Changes of Major Agricultural Crops in Sri Lanka: A Comparison Among Main Countries in The World	Hatharasinghe H. K. A. P. , Jayamanne D. N. T. 1, Athukorala W.	99
	15.00 - 15.20	Frugal Innovation and SMEs in Sri Lanka	Perera R. L. , Perera R. S.	100
	15.20 - 15.40	The Impact of Mobile Banking on Customer Loyalty: Evidence from Commercial Banks in Sri Lanka	Karunarathne K. P. P. , Madurangi R. K. M.1 , Walakumbura S. H. M. L.	101
	15.40 - 16.00	Systematic Literature Review on Social Entrepreneurship Concept	Amarawansa T. G. A. H. C. , Gamage P. G. M. S. K.2, Jayawardhana K.3, Fernando P. I. N.4, Siyambalapatiya J.5, Premadasa I. V. M. N.	102
	16.00 - 16.20	Factors Affecting Employee Job Stress and Job Performance in Classified Hotels	Ranatunga R. A. D. D. N	104
	16.20 - 16.40	The Behaviour of Tourism and COVID 19 Literature: Evolving Themes, Methods and Glitches	Samarathunga W. H. M. S.	103

## Track: Mathematics, Statistics and Data Science

Chair*	Dr. Shelton Perera
Discussants*	Prof. S.S.N. Perera Prof. K.S. Walgama

\*The panel will cover all the technical/poster/combined sessions of this track

## Technical Sessions

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09">https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09</a> (Session 1)				
Passcode: 930715				
Session	Time	Title	Authors	Ref to Proceedings
TS1	10.30 - 10.50	Study on Return Distribution of All Share Price Index and Stock Market Volatility at Colombo Stock Exchange	Rathnayaka R. M. P. S. , Samarasinghe N. R	107
	10.50 - 11.10	The Definitions and Some Elementary Properties of Polygroup	Thushanthan R. , Sangathan M.	108
	11.10 - 11.30	The Modern Approaches Used by Judges in the Interpretation of the “Right to Life” under the Current Constitutional Framework of Sri Lanka	Rupasinghe R. A. D. S. T. , Udayajeewa T. J.	109
	11.30 - 11.50	Directly Defining the inverse Mapping Method for Solving a Delay Differential Equation of Fractional Order	Karunarathna W. H. D. T. , Dewasurendra M. T. M	110

## Combined Sessions

Date: 21 <sup>st</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09">https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09</a> (Session 1)				
Passcode: 930715				
Session	Time	Title	Authors	Ref to Proceedings
CS1	13.00 - 13.20	(Oral) k-graceful labeling for the Ladder graph and the Roach graph	Indunil W. K. M. , Dissanayake D. M. T. B. , Priyadarshani M. A. D. 2, Perera A. A. I.	111
	13.20 - 13.40	(Oral) Mathematical Modelling and MDDiM Solutions for Fingering Phenomenon during the Nano Silica Flooding	Sahabandu C. W. , , Dewasurendra M.	112
	13.45 - 14.00	(Poster) Using a Modified Ant Colony Algorithm Approach to Solve Assignment Problems	Ekanayake E. M. U. S. B	113

## Track: Medicine and Public Health

### Technical Sessions

Date: 21 <sup>st</sup> December				
<a href="https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09">https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09</a>				
Passcode: 940234				
Chair - Prof. Kosala Weerakoon				
Discussants - Dr. Manjula Weerasinghe / Dr. Subhashinie Senadheera				
Session	Time	Title	Authors	Ref to Proceedings
TS 4	13.00 - 13.20	The Sinhalese Version of eHealth Literacy Scale (Si-eHEALS): Reliability and Validity Testing in Health Science Students	Rathnayake S. , Liyanage I. P.	117
	13.20 - 13.40	Predictors of In-hospital Mortality in Stroke Patients	Ranasinghe V. S. , Gawarammana I. B.	118
	13.40 - 14.00	Perspectives of Nursing Students towards Taking Care of Death and Dying Patients and their Families: A Qualitative Study	Bandara M. G. D. N. , Rathnayake S	119
	14.00 - 14.20	Development of a Sinhalese Version of Dementia Knowledge Assessment Scale (Si-DKAS)	Jagoda T. , Rathnayake S	120
	14.20 - 14.40	Enteric fever in Sri Lanka since 1902 – A narrative review	Illapperuma S. C. , Gunathilaka M. G. R. S. S.	121
	14.40 - 15.00	Sitting Posture, Computer Ergonomics, and Study-Related Health Problems among Undergraduate Medical Students	Malshani G. W. W. , Weerakoon H. T. W., Weerakoon K. G. A. D.	122
TS 8	15.00 - 15.20	Demographic and Clinical Characteristics of Patients Diagnosed with COVID-19 who Admitted to Provincial General Hospital, Kurunegala: A Retrospective Analysis	Herath C. M. , Rathnayake S. , Kendangamuwa C. , Welivita T.	123

15.20 - 15.40	A Study on the Impact of Social Media Addiction Towards the Decision Making Ability of State University Students in Sri Lanka	Senarath T. U. S. , Padmasiri U. G. M.	124
15.40 - 16.00	Intake of Major Dietary Constituents in Patients with Newly Diagnosed Type 2 Diabetes Mellitus in Southern, Sri Lanka	Wasana K. G. P. , Attanayake A. P., Weeraratna T. P. , Jayatilaka K. A. P. W.	125
16.00 - 16.20	Clinical Signs and Symptoms for Detecting Early Pregnancy Anemia in Anuradhapura, Sri Lanka; Findings from the Baseline Assessment of a Large Pregnancy Cohort	Amarasinghe G. S. , Agampodi T.C., Mendis V. , Agampodi S.B.	126
16.20 - 16.40	Socio-Economic Factor Affecting Attitude of Local and Cultural and Eco-Tourism Development in Central Province in Sri Lanka	Senarathna L. , Dissanayake D. , De Silva K. T.	127

Date: 22 <sup>nd</sup> December				
<a href="https://us02web.zoom.us/j/86841931169?pwd=Rng4eGs2TmZpRExHaTFaUUFnMmF6dz09">https://us02web.zoom.us/j/86841931169?pwd=Rng4eGs2TmZpRExHaTFaUUFnMmF6dz09</a>				
Passcode: 458411				
Chair - Prof. Suneth Agampodi				
Discussants - Dr. Danushka Hewa Bosthanthrige / Dr. Harshi Weerakoon				
Session	Time	Title	Authors	Ref to Proceedings
TS 11	09.20 - 09.40	Impact of Covid-19 Pandemic on the Social Wellbeing and Resilience Mechanisms of Three Rural Communities in Anuradhapura District, Sri Lanka	Gunasekara S. D. , Wickramasinghe N. D. , Fernando W. M. S. , Dikomitis L. , Agampodi T. C., Liyanage C. , Agampodi S. B.	128
	09.40 - 10.00	Public Health of Ancient Sri Lankans in The Face of Epidemics	Panapitiya S. , Samarakoon K.	129
	10.00 - 10.20	Period Poverty in Rural Sri Lanka; Understanding Menstruation Hygiene and Related Health Issues to Empower Women	Hettiarachchi A. , Agampodi T., Agampodi S.	130

	10.20 - 10.40	Traveling Cost for Health Service Utilization in Early Pregnancy: Evidence from the Rajarata Pregnancy Cohort	Gunaratne S. P. , Agampodi T. C., Wickramasinghe N. D.	131
	10.40 - 11.00	The First Isolation of <i>Leptospira weilii</i> in Sri Lanka and Comparative Genomic Analysis of RAST Subsystems	Senavirathna I. , Warnasekara J., Kappagoda C. , Srimantha S., De Silva N., Jayasundara D. , , Agampodi S.	132
TS 15	11.00 - 11.20	High and Low-Risk Pregnancies at the First Clinic Visit: Requirement of Shared Care and Special Care in Pregnancy	Hettiarachchi A. , Agampodi S	133
	11.20 - 11.40	Association between non-alcoholic fatty liver disease in pregnancy (NAFLD) and maternal weight gain during pregnancy; a retrospective study	Sewwandi M. M. S. , Senarathne H. M. A. M. Senarath P. G. D. D. W. , Senarathne M. K. U. D. , Sandaruwan J. K. I., Sampath G. L. P., Warnasekara Y. P. J. N, Koralegedara K. I. S.	134
	11.40 - 12.00	Association of Non-alcoholic fatty liver disease and large for gestational age neonates: A prospective cohort study	Koralegedara K. I. S. , Warnasekara Y. P. J. N. , Dayaratne K. G.3, Premadasa A. J. K. , Agampodi S. B.	135
	12.00 - 12.20	Level of Knowledge on Sexual and Reproductive Health among Undergraduate Students in Sri Lanka	Dissanayake N. , Senavirathna C. I., Senarathna L.	136
	12.20 - 12.40	Children with conduct disorder (CD) make life harder for teachers	Elapatha G. E. S. T. , Premawansa I. J., Nanayakkara N. B. N. A. K. I., Kumarasinghe D. D. S. D., Madushani S. A. P., Prathapan S. , Wickremasinghe D. R. , Vidanage U. A	137



## Poster Sessions

22 <sup>nd</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09">https://us02web.zoom.us/j/88040797774?pwd=WHpvaHhQN0ZkcjRjN1Q2Ty8rV2U0UT09</a> (Session 2)				
Passcode: 940234				
Chair - Prof. Anjana Silva				
Discussants - Dr. Janaka Pushpakumara / Dr. Amila Isuru				
Session	Time	Title	Authors	Ref to Proceedings
PS 5	13.00 - 13.15	Serum Amylase Enzyme Level and Body Mass Index: Is there any Correlation?	Weerasinghe W. C. A. , Risla M. B. F. I., Dias P. , Priyadarshani A. M. B. I	138
	13.15 - 13.30	Experiences and Barriers of Medication Adherence in Older People with Uncontrolled Type 2 Diabetes Mellitus: A Qualitative Study	Upamali R. A. S. , Rathnayake S.	139
	13.30 - 13.45	Experiences of Chemotherapy as a Treatment Modality Among The Patients With Cancer Attending Chemotherapy	Nanayakkara N. W. W. G. S. K. , Jayaratna Y. G. S. W.	140
	13.45 - 14.00	Views and Experiences of Lifestyles of Overweight and Obese People: A Qualitative Study in a Selected Group of Sri Lankans	Bookoladeniya D. R. , Perera R. H. I, Senevirathne K. A. I, Silva S. M. I, Gunawardana H. A. K. S.	141
	14.00 - 14.15	Respiratory Effects of Exhausted Vehicle Fume Exposure Among Traffic Police Officers in Kandy Police Division, Sri Lanka	Rajapaksha R. M. D. K. , Pathirathna M. L.	142
PS 6	14.15 - 14.30	Sociodemographic Factors Affecting Early Pregnancy Metabolic Syndrome Among Pregnant Women in Anuradhapura District	Jayasinghe H. M. I. U. Dissanayake A. K. , Agampodi S. B.	143
	14.30 - 14.45	An evaluation of “Self -introduction” in the community engagement and involvement (CEI); A preliminary study based on participant observation	Lalani J. M. G. , Wickramasinghe N. D. I, Liyanage C. , Agampodi T. C. I, Agampodi S. B.	144

14.45 - 15.00	Visualization of Doubling times and Comparison of Control measures for COVID-19 in Sri Lanka and China	Gunarathne M. V. H. S. , Dilakshana K. I and Jayathilake R. M. S. D. L	145
15.00 - 15.15	Immunogenicity and Vaccine Efficacy of Covid-19 Vaccines in Sri Lanka	De Silva S. S. , Eugene E. J I	146
15.15 - 15.30	Capacity of midwives to Screen for post-partum depression, a descriptive study in Matara district, Sri Lanka	Vidanage U. A. , Elapatha G. E. S. T. , Thirimanna H. D. G. S.	147

## Track: Social Science and Humanities

Chair*	Prof. R.P.I.R. Prasanna
Discussants*	Mrs. Deepika Gamage Dr. Samantha Ekanayake

\* The panel will cover all the technical/poster/combined session of this track.

## Technical Sessions

Date: 22 <sup>nd</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZlS3pyVG9SeG5SVmFhcDNvZz09">https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZlS3pyVG9SeG5SVmFhcDNvZz09</a> (Session 1)				
Passcode: 930715				
Session	Time	Title	Authors	Ref to Proceedings
TS 10	08.30 - 08.50	The Modern Approaches Used by Judges in the Interpretation of the “Right to Life” under the Current Constitutional Framework of Sri Lanka	Rupasinghe R. A. D. S. T. , Udayajeewa T. J.	151
	08.50 - 09.10	Aging and Retirement: Identifying the Negative Experiences of Post-Retirement	Siriwardhana W. S. N.	152
	09.10 - 09.30	Lives in the Street – Challenges, Abuse, and Protection of Street Elders in Sri Lanka	Herath U.	153
	09.30 - 09.50	Determinants of Work-Family Balance of ICT Professionals in Sri Lanka	Athapaththu A. M. C. S. , Deegahawature M. M. D. R.	154
TS 14	09.50 - 10.10	A sociological study of the relationship between mental health illness and family conflict. (Western Province, Kaluthara District, Horana Divisional Secretariat Area)	Kethumali G. H. , Rangana K. K. K. C.	155
	10.10 - 10.30	Smokeless Tobacco Use in Sri Lanka (An sociological Analysis)	Kethumali G. H	156
	10.30 - 10.50	A Sociological Analysis of Cannabis addicted three-wheel Driver. (Western Province, Gampaha District, Nittabuwa Divisional Secretariat Area)	Kethumali G. H. , Rangana K. K. K. C.	157

	10.50 - 11.10	Impact of Prison Rehabilitation on Recidivism in Sri Lanka	Bandaranayake P. , De Silva P.	158
	11.10 - 11.30	Use of Kinesics: Family-Centered Ethical Identities of Personal Communication in an Urban and a Semi-Urban Context	Jayarathna R. N. H. M. D. , Angamma B. H.1	159

Date: 22 <sup>nd</sup> December				
Zoom link: <a href="https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09">https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09</a> (Session 1)				
Passcode: 930715				
Session	Time	Title	Authors	Ref to Proceedings
TS18	13.00 - 13.20	Renting The Womb: The Legal Analysis of the Act of Surrogacy and Right to Be a Parent in Sri Lanka in Comparison to India and United States of America	Indrakumara W. D. M , Gunathilake M. D. M. U1 , Wataliyadda H. M. A. P1	160
	13.20 - 13.40	Contributory Factors for the Passion Play Genre 'Nurthi' to Transcend 'Nadagam'	Batuwatta S.	161
	13.40 - 14.00	Comparison of Individual Carbon Footprint in Semi-Urban areas. A Case Study of two Grama Niladari Divisions in Galewela Divisional Secretariat in Matale District of Sri Lanka	Disanayaka D. M. M. G. J .M , Rajapakshe P. S. K	162
	14.00 - 14.20	An Investigative Study of the Impact of British Plantation on the Traditional Society of Sri Lanka	Kanthi J. K. A.	163

## Poster Sessions

Date: 22nd December				
Zoom link: <a href="https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09">https://us02web.zoom.us/j/86203659416?pwd=Zi9WQmZtS3pyVG9SeG5SVmFhcDNvZz09</a> (Session 1)				
Passcode: 930715				
Session	Time	Title	Authors	Ref to Proceedings
PS7	14.30 - 14.45	A Systematic Review on the Theories of Life Satisfaction	Sellahewa W. N. , Samarasinghe T. D. , Chandanamali D. M. M.	164
	14.45 - 15.00	Library and Information Science Students' perception on Library Automation: A survey	Palukandewe S. , Ransara P. W. A. S. D.	165
	15.00 - 15.15	Engaging in a newspaper news thematic analysis to understand the socioeconomic, health, political impact of covid 19 in Sri Lanka (From Sinhala newspapers published from May 24 to June 14, 2021)	Mallawaarachchi A. P. , Agampodi S. , Weerasinghe M.	166
	15.15 - 15.30	Impact of the Main Family for being Pregnant in Teenage in a Selected Semi Urban Village in Sri Lanka	Priyadarshani. A. A. N. , Angamma. B. H. 1 , Abeyasinghe. H. M. P. P. K.	167
	15.30 - 15.45	A Study on Available Library Services for Differently- Able Users in North Western Province (NWP) Public Libraries, Sri Lanka	Abeyasinghe H. M. P. P. K. , Angamma B. H.	168