

# General Programme

08.00	Registration
08.30	Arrival of Guests
09.00	Lighting of the Traditional Oil Lamp
09.10	National Anthem
09.20	Welcome address by Prof. Lalith De Silva, Dean, Faculty of Architecture, UOM
09.35	FARU-2018 Theme video presentation
09.40	Theme Address by Dr. Sumanthri Samarawickrama, Director, FARU
09.55	Chief Guest Address by Prof. Kapila Perera, Vice Chancellor, University of Moratuwa
10.00	Keynote Address, Prof. Monte Cassim, President and Trustee of (Science and Technology Innovation) of the Shizenkan University of Leadership and Innovation, Japan.
11.00	<b>Session 1</b> - Four parallel sessions – 12.30 am
12.30	Lunch
01.30	<b>Session 2</b> - Four parallel sessions – 3.00 pm
03.00	Tea break – 3.30 pm
03.30	<b>Session 3</b> - Four parallel sessions – 5.00 pm
05.00	Summing up, Presentation of awards – 5.30 pm
07.00	Conference Dinner

Venue **A**: Eddystone Hall  
Venue **B**: Galle Room  
Venue **C**: Cinnamon Room  
Venue **D**: Coat of Arm Room



# FARU 2018

## 11th International Research Conference

7th December 2018, Light House Hotel, Galle, Sri Lanka



'Sustainability for People'  
-envisaging multi disciplinary solutions-

# PROGRAMME



**FARU** FACULTY OF ARCHITECTURE  
RESEARCH UNIT  
UNIVERSITY OF MORATUWA, SRI LANKA

**Session 1**

**Venue A : Eddystone Hall**

**Time : 11.00am - 12.30am**

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**Session Chair: Dr. Upendra Rajapakse**

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From Horizontal to Vertical: Habitus Transformation in Resettlement of Underserved Communities to High Rise Buildings  
*Randima De Silva & Prasad Botejue*

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Impact of Spatial Perception on Placemaking In Open Spaces of Middle Class Housing Schemes Around Colombo  
*Tharindu Manawadu & Janaka Dharmasena*

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Improve Intrinsic Properties of Walling Materials to Create Occupant Comfort  
*Himahansi Galkanda, Chameera Udawattha & Rangika Halwatura*

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A Study of Urban Neighbourhood Open Spaces and their Propensity to Encourage Crime With Reference to Kotahena; The correlation between crime and urban context  
*Aishan Ranasinghe & Gamini Weerasinghe*

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Effectiveness of a Discretely Supported Slab Insulation System in Terms of Thermal Performance  
*Kasun Nandapala, Madujith Sagara Chandra & Rangika Umesh Halwatura*

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Simulation Based Design for Sustainable and Contextual Architecture  
*Shammi Akter Keya & Noshin Siara Promy*

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**Session 1**

**Venue B : Galle Room**

**Time : 11.00am - 12.30am**

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**Session Chair: Dr. Yasangika Sandanayake**

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Effects of Open Plan Workspaces on Job Satisfaction: A Study on Software Development Professionals in Colombo  
*Yashika Naranpanawa & Anishka Hettiarachchi*

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Social Networks for Knowledge Management in Multinational Real Estate Consultancy Firms – A Literature Review  
*Nelushi Dias Abeysinghe, Sepani Senaratne & Amiyu Kumudun Andaraweera*

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Collaborating formal and Informal Sector for Managing Solid Waste in Municipalities: A Case of Sri Lanka  
*Harshini Mallawaarachchi & Sudeshika Yapa*

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Possibility of Recycling Plastics from Municipal Solid Waste (MSW) and their Potential Applications in Construction Industry  
*Jayathilaka W.M.D.S., Chandrasena N., Premachandra J. & Halwatura R.U.*

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Developing an Initial Level Decision-Making Process for Retrofitting Existing Hotel Buildings  
*M.F.F. Fasna & Sachie Gunatilake*

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A Comparative Analysis about the Indoor Thermal Environment of a Room With and Without Transitional Space or Threshold in Traditional Row Houses Adjacent to A Narrow Alley “Rupchan Lane” in Old Dhaka, Bangladesh  
*Fatema Tasmia, Brishti Majumder & Atiqur Rahman*

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**Session 1**

**Venue C : Cinnamon Room**

**Time : 11.00am - 12.30am**

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**Session Chair: Dr. Wattage**

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Gender Mainstreaming in Urban Planning; An exploratory study of women’s perception on liveability in Keonjhar city, Odissa  
*Swagatika Mishra*

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Understanding Characteristics of Pedestrians and Design Path  
*Chhime Dolkar Phuntshok & Rangajeewa Ratnayaka*

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Impact of Surface Cover and Surrounding area on Microclimate of Urban Wetland Park, Nugegoda  
*Madhuranga T. R. I. & Rajapaksha R. M. K. U.*

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Releasing the Barricades: Reintegrating Central Jail Through ‘Place Making’ in Old Dhaka  
*Noshin Siara Promy & Shammi Akter Keya*

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Sustainable Water Management In Irrigation Systems  
*Diani Chamathya Sirimewan & Naiduwa Handi Chathuri Manjula*

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Envisioning Graveyards in Dense Urban Areas in Context of Dhaka City: From preserved hallowed ground towards healing landscape for the community  
*Shauni Priyam Sikder & Fahim Alam*

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**Session 1**

**Venue D : Coat of Arm Room**

**Time : 11.00am - 12.30am**

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**Session Chair: Dr. Wajishani Gamage**

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Characteristics of Industrial Waste in Sri Lanka  
*Samith Rathnayaka & Rangika Halwatura*

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River Erosion and Possible Ways for Designing a Sustainable Water Terminal for Chandpur  
*Trina Nazia Afrin*

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Cost Effectiveness of Sustainable Electricity Consumption in Building  
*Thilina Laksiri Dissanayake & Anuji Arunoda Wahalathanthri*

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Present Trends in Income and its Impact on Affordability of Multi-Ownership Housing  
*Nayna Tabassum & Simita Roy*

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Labour Productivity in Plastering Works in Sri Lankan Construction Industry  
*Fathima Sabrina Nazeer, Visvanathan Parasath, Vijitha Dissaratne & Pavithra Ganeshu*

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## Session 2

Venue A : Eddystone Hall

Time : 1.30pm - 3.00pm

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Session Chair: Dr. D. Chandrasekera

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Influence of Tree Shade Level on Comfort Perception - A Case Study of Outdoor Public Spaces of Viharamahadevi Park, Colombo  
*Achini Caldera & Narein Perera*

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A Study on Visitor Perception and their Cognition of Cultural Landscapes: With Special Reference to the Temple of the Tooth, Kandy  
*Erandee Ranasinghe & Samitha Manawadu*

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Impact of Visual Complexity of Streetscapes on the Aesthetic Quality of an Urban Area  
*Shamali Dissanayake & Janaka Dharmasena*

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Experimental investigation on the Optimal Lifting Height of a Self-Compacting in-Situ Cast Mud-Concrete Load-Bearing Wall Segment  
*Fathima Rizna Arooz, Tharindu Harshika Perera, Madujith Sagara Chandra & Rangika Umesh Halwatura*

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The Effectiveness of Street Characteristics for Creating a City Image; A Study of Galle Road, Colombo  
*Dilhani Perera & Shaleeni Coorey*

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Implementation of RIBA Plan of Work (2013) at Pre-Contract Phase to Minimize Conflicts of Construction Projects in Sri Lanka  
*Kanchuka Withanage & Nayanathara De Silva*

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## Session 2

Venue B : Galle Room

Time : 1.30pm - 3.00pm

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Session Chair: Prof. Manawadu

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Sinhala Traditional Music of Sri Lanka for Stress Relief: An Interaction Design Intervention  
*Samangi Wadinambi Arachchi & Sumanthri Samarawickrama*

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Non-Verbal Communicative aspects of Verandah in "Walauwa" Under Uva Province: A Case Study  
*Malsha Shehani Mendis & Sagara Jayasinghe*

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Body-Centric Transformable Adornments: A Sustainable Approach  
*Jayawardhana Komangodage Methma Jayawardhana & K.K.G.I.C. Samarasekara*

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Product Usability of Utensils Used in Nasya Karma of Sri Lankan Indigenous Medicine; With Special Reference to the Gokarna Yantra  
*Udari Mohotti & Dilshani Ranasinghe*

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Identification of Functionality and Usability Aspects of Traditional 'Paathraya' in Sri Lanka  
*K.C.M. Thilakarathna & W.M.N. Dilshani Ranasinghe*

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Sustainable Applications behind Geographically Indigenous Product Cultures. A Study of Village Communities in Central High Valley, Sri Lanka  
*Dulaj Perera & W. M. N. Dilshani Ranasinghe*

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## Session 2

Venue C : Cinnamon Room

Time : 1.30pm - 3.00pm

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Session Chair: Dr. Wathsala Gunawardena

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Expected Impact on Design Delivery Risk in BIM Based Project in Sri Lanka  
*A.G.N.D. Dissanayake, H.S. Jayasena & M.K.C.S. Wijewickrama*

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Perception of Contractors on Usage of Alternative Dispute Resolution Methods in Construction Industry of Sri Lanka  
*T.P.W.S.I. Pandithawatta, D.M.A.B. Dissanayake & Mahesh Abeynayake*

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Competencies of Quantity Surveyors in a Developing Economy  
*Vidana Gamage Shanika, Yashoda Dissanayake & Vijitha Disaratne*

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Evaluation of the Compatibility of Enterprise Resource Planning (ERP) System in Sri Lankan Construction Industry  
*F.S.T. Hewavitharana & A.A.D.A.J. Perera*

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Urban Water Body Development for Recreational Purposes in Sri Lanka: A Comparative Study of Public Perception and Willingness to Pay  
*Naduni Wickramaarachchi, Premachandra Wattage & Rangajeewa Ratnayake*

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## Session 2

Venue D : Coat of Arm Room

Time : 1.30pm - 3.00pm

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Session Chair: Dr. Thilini Jayawickrama

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Using Visibility for Enhancing Spatial Interaction Within An Organically Developed Neighborhood Of Dholaikhal, Old Dhaka  
*Catherine Daisy Gomes, Simita Roy & Brishti Majumdar*

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Impact of Water Bodies as Natural Landscape Elements on Urban Microclimate in the Context of Dhaka in Terms of Thermal Comfort  
*Raisul Mostafa & Sarjana Afroz*

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Fictive Home: The Politics of Urban Home-Making of Hijras in Khulna, Bangladesh  
*Apurba K Podder & Tahmina Binte Azad*

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Evaluation of Thermal Performance of a Built form through Building Envelopes for an Office Building in two Different Latitudes and Climatic Zones of India  
*Deepti Hegde & Srinivas T.*

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Form Development of Clay Module for Optimize Evaporative Cooling with Wind Flow  
*B.L.S. Wasana Liyanarathne, W.M.N. Dilshani Ranasinghe & Rangika Umesh Halwatura*

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### Session 3

Venue A : Eddystone Hall

Time : 3.30pm - 5.00pm

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Session Chair: Dr. Gamini Weerasinghe

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The Impact of Artificial Lighting on Visual Comfort and Visual Satisfaction of People with Special Reference to outdoor Public Spaces in Colombo  
*Anuradha Bandara, Shashikala Ranasinghe & Anishka Hettiarachchi*

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Impact of Organization Patterns in Landscape Elements on Visitor Legibility; A Study with Reference to Sigiriya  
*Sammani Dissanayake & Janaka Dharmasena*

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Mapping “Wind Comfort” in Public Urban Spaces of Galle Fort, Sri Lanka  
*Lahiru Wimalarathne, Narein Perera & Rohinton Emmanuel*

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The Impact of Landscape Characteristics of Urban Pockets on Visitors and Residents; A Study with Reference to Kandy City  
*Sajini Madawala & Dhammika Chandrasekara*

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Urban Alleyways as a Functional Landscape Element and its Effect on Livable City; A Study With Reference to Kandy City  
*Chathuri Gunarathne & Dhammika Chandrasekara*

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Appraising the Influence of Landscape Design on Traffic Generated Air Pollution of Urban Parks  
*Indrika Rajapaksha & Maheshika Ekanayake*

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### Session 3

Venue B : Galle Room

Time : 3.30pm - 5.00pm

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Session Chair: Dr. Sachie Gunatilake

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Green BIM for existing Buildings  
*Pavithra Rathnasiri & Suranga Jayasena*

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A Framework to Implement Design and Built Practices for Green and Adaptive Reuse of Existing Buildings  
*Wijesiri W.M.M., Devapriya K. & Rathnasiri P.*

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The Role of Facilities Management in Logistics and Warehousing in Sri Lanka  
*Amiyu Kumudun Andaraweera, Asanka Ratnayake & Nelushi Dias Abeysinghe*

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Factors Influence for the Selection of Procurement System for Steel Building Construction in Sri Lanka  
*G.P.P.S. Perera, M.K.C.S. Wijewickrama, U. Kulatunga & H.S. Jayasena*

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Influence of Organisational Culture on Knowledge Management in a BIM Enabled Environment  
*T.M.M.P. Tennakoon, M.K.C.S. Wijewickrama, U. Kulatunga & H.S. Jayasena*

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Impact of Schedule Compression on Successful delivery of Sri Lankan Construction Projects  
*Subhani Wickramasinghe, Vijitha Disaratna*

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### Session 3

Venue C : Cinnamon Room

Time : 3.30pm - 5.00pm

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Session Chair: Dr. Rangajeewa Ratnayake

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Achieving Cultural Sustainability with Local Strengths & through People's Participation  
*Aneeka Habib*

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Landslides Prediction Based on Neural Network and Remote Sensing Data  
*Hasintha Nawod Kalpana Lindamullage Don Charls & Shashikala Subhashini Lidhamullage Dhon Charles*

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Late Colonial Period Merchant Houses at Birulia: A Study on Architectural Features  
*Enam Rabbi Adnan & Tazrin Islam*

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Design Approaches to Revitalize a Canal Front: A Case Study Along Chaktai Commercial area of Chittagong, Bangladesh  
*Sarah Binte Haque & Mahdi Mahmudul Hoque*

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Impact of Outdoor Learning Landscape on Psychomotor Skills Development of Primary School Children; Cases from Colombo, Sri Lanka  
*Perera B.T.S. & Hettiarachchi A.A.*

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A new methodology for side walk assessment in Sri Lanka  
*Hewawasam C., Saparamadu S.*

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