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1885  
• Gottlieb Daimler - first  
successful petrol engine  
• Carl Benz - First IC engine-  
powered car



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University of Moratuwa

# Bimonthly UOM news

## 2021

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Issue: 05  
ISSN: 2279-2023

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## Research Initiatives, Accomplishments & Disseminations

### “Ultra-low Thermal Conductivity of Nanoparticle Chains: A Nanoparticle based Structure for Thermoelectric Applications” - Published in the Journal of Applied Physics

A research article titled “Ultra-low thermal conductivity of nanoparticle chains: A nanoparticle based structure for thermoelectric applications” authored by Pasan Henadeera, Nalaka Samaraweera, Chathura Ranasinghe and Anusha Wijewardane has been published in the Journal of Applied Physics [DOI:

10.1063/5.0060487]. In this research, a one-dimensional, crystalline nanostructure synthesized by sintering Si nanoparticles, called Nano Particle Chain (NPC) structures, is proposed and the structure is systematically analyzed for its thermal transport properties and compared with its nanowire counterparts.

### “Carbon Capture Systems for Building-Level Heating Systems—A Socio- Economic and Environmental Evaluation” - Published in Sustainability

A review article titled “Carbon Capture Systems for Building-Level Heating Systems—A Socio - Economic and Environmental Evaluation” authored by Don Rukmal Liyanage, Kasun Hewage, Hirushie Karunathilake, Gyan Chhipi-Shrestha, and Rehan Sadiq has been published in Sustainability [DOI: 10.3390/su131910681]. In this study , a critical literature review was conducted to

understand the feasibility and viability of adapting carbon capture, utilization, and storage (CCUS) technologies to co-function in building heating systems. This review investigated the technical requirements, environmental and socio-economic impacts, and the drivers and barriers towards implementing building-level CCUS technologies.

### “Social Innovation Grand Challenge”

for the “Social Innovation Grand Challenge” organized by the Asian Preparedness Partnership (APP) funded by the Bill & Melinda Gates Foundation.

The Asian Preparedness Partnership (APP) was established through a partnership between the Asian Disaster Preparedness Centre (ADPC) and the Bill & Melinda Gates Foundation to improve the preparedness and emergency response to disasters in Asia by strengthening the humanitarian leadership and the technical capacity of national governments and local humanitarian and private sector organizations.

For this competition, the Department of Civil Engineering team partnered with the University of Colombo, Disaster Management Centre (DMC) - Sri Lanka, the Federation of Sri Lankan Local Government Authorities (FSLGA), and the sustainability group of Dialog Axiata PLC.

The innovation challenge aims to identify, curate, nurture and promote innovations derived from local actors in APP countries for addressing pertinent Disaster Risk Management (DRM)-related challenges. The competition was conducted in a few phases, and was set up on 04<sup>th</sup> May 2021 and planned to initiate the selected innovations within six months of the period ending on April 2022. It was conducted under three thematic areas. The Department of Civil Engineering team had proposed an innovative solution for strengthening the emergency operations, response systems, and mechanisms in the Sri Lankan context. This winning team has successfully pitched their proposed solution at the innovation conclave of the competition, in front of the ADPC panel and funders of this project, the Bill & Melinda Gate Foundation representatives. After the evaluation process, the final six winners of the competition were announced in early October 2021.

### Winners of the APP Social Innovation Grand Challenge

#### Congratulations to:

- Doh Eain Limited, Myanmar
- Institute of Town Planners, Sri Lanka
- Shifa Foundation, Pakistan
- Slash Foundry Co., Ltd., Cambodia
- Sri Lanka Red Cross Society
- Department of Civil Engineering, University of Moratuwa, Sri Lanka
- Youth Innovation Lab, Nepal



A team led by Dr. Chandana Siriwardana, Department of Civil Engineering is among the six winners out of 51 candidates representing six countries which competed

## International Collaboration with the Department of Aeronautics and Astronautics at the National Cheng Kung University

Dr. RMDS Gunarathne from DCPE initiated an international collaboration with Prof. Wei-Hsin Chen at the Department of Aeronautics and Astronautics at National Cheng Kung University, Taiwan. Under this collaboration, it is expected to have research collaborations in the areas of biomass pretreatment and thermochemical conversion with their Green Energy and Fuel Laboratory.

## A discussion on Future Prospects in the Supply Chain Sector

An industry guest lecture on future prospects in the supply chain sector for level 02 and level 03 TLM undergraduates in collaboration with Asian Causeway Paints was held on 03<sup>rd</sup> September 2021. It was conducted by Mr. Mustafa Turra, Mr. Prabhu Pitchai and Ms. Savindi Bandaranayake.

## Guest Lectures / Talks

### “Skill-up with CES – Webinar 2”



The Civil Engineering Society of the University of Moratuwa initiated the “SKILL-UP WITH CES-Webinar Series” for undergraduates to gain expert advice from renowned professionals from around

## Academic & Industry Collaboration

### Opening of Huawei ICT Academy Innovation Lab at the University of Moratuwa

[From Cover page]



Huawei Sri Lanka recently opened a Huawei ICT Academy Innovation Lab in collaboration with the University of Moratuwa.

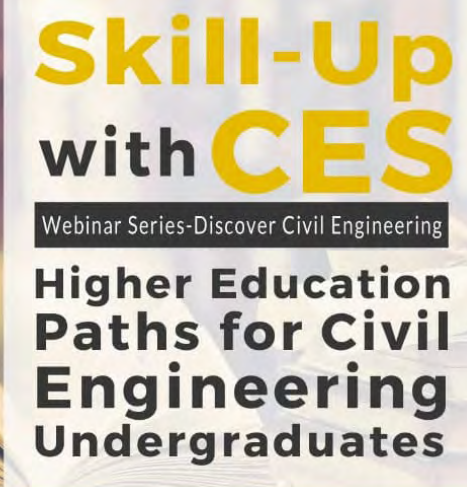
The official opening ceremony was held at the University premises with the participation of the Secretary to the Ministry of Education Prof. Kapila Perera, Vice Chancellor of the University Prof. ND Gunawardena, Deputy Vice Chancellor of the University Prof. PKS Mahanama, Dean of the Faculty of Engineering Prof. Nalin Wickramaarachchi, Head of the Department of Computer Science & Engineering Prof. Indika Perera and the CEO of Huawei Sri Lanka Mr. Liang Yi with other University and Huawei officials.



This is considered to be the largest Huawei ICT Academy and Innovation Lab in the country and it is themed “Cultivating a Talent Ecosystem for Digitally Inclusive Sri Lanka”.

The aim of the Huawei ICT Academy Innovation Lab is to train individuals in a real Huawei equipment using environment to acquire high level Huawei Certifications, support university research programs by providing the cutting edge technology and platforms and to inspire innovations by conducting industry and university collaborative projects and research.

Huawei has also recently signed a Memorandum of Understanding with the University of Moratuwa to establish a joint innovation laboratory and ICT Academy.



the world. As the 02<sup>nd</sup> webinar under this series, Prof. Sunanda Dissanayake (Ph.D., P.E., F. ASCE – Chair and Professor of the Department of Civil & Environmental Engineering, Kennesaw State University,

USA) conducted an insightful online session on “Higher educational paths for Civil Engineering undergraduates” on 24<sup>th</sup> October, 2021.

She delivered a detailed explanation on higher educational paths, the admission process for postgraduate degrees, assistantships, the importance of higher education, and many other valuable facts, sharing her invaluable knowledge and experience with undergraduates. Civil Engineering undergraduates from the University of Moratuwa as well as those from other universities in Sri Lanka who participated in this invaluable session enhanced their awareness on higher educational paths, clarifying their doubts on their future.

## **Building Economics and Management Research Unit (BEMRU) RESEARCH COLLOQUIUM – Series 74**

The Building Economics and Management Research Unit (BEMRU) virtually conducted its 74<sup>th</sup> research colloquium on “Writing a scientific article: A step by step guide for beginners” on 23<sup>rd</sup> September 2021. The guest speaker was Dr. Tharusha Ranadewa, Lecturer, Department of Building Economics, University of Moratuwa. The presentation was followed by a lively discussion.

## **Guest Lecture on “Structural steel factory buildings and BOQ preparation”**

An online guest lecture on “Structural steel factory buildings and BOQ preparation” was organized for the Level II Quantity Surveying undergraduates of the Department of Building Economics. The lecture was delivered by ChQS. Nimal Jayadeva, Director, Cost Management Services (Pvt) Ltd, on 23<sup>rd</sup> September 2021.

## **Conferences & Symposia**

### **Students of the Department of Electrical Engineering Emerge Winners in the Best Paper Contest of the 01<sup>st</sup> Sri Lankan Power Engineering Conference**

“Simulation and hardware implementation of automatic load balancer for distribution transformers”, a paper based on the final year undergraduate project conducted by Mr. Rajitha V Liyanage, Mr. Muditha Senevirathna and Mr. Akalanka Kanankege, supervised by Prof. Anura Wijayapala, Prof. JP Karunadasa and Eng. Arosha Fernando, emerged winners in the best paper contest of the 01<sup>st</sup> Sri Lankan Power Engineering Conference held virtually on 24<sup>th</sup> October 2021.

The paper “Locating faults of medium voltage overhead lines by monitoring the

## **Guest Lecture on “Computerized Maintenance Management Systems”**

An online guest lecture on “Computerized Maintenance Management Systems” was organized for the Facilities Management undergraduates of the Department of Building Economics. The lecture was delivered by Mr. Chandana Perera, Senior Product Manager at iviva.facility (CMMS), Eutech Cybernetic, on 2<sup>nd</sup> October 2021.

## **Guest Lecture on “Management and Accounting Skills for Professional Quantity Surveyors”**

An online guest lecture on “Management and Accounting Skills for Professional Quantity Surveyors” was delivered to the Level I Quantity Surveying undergraduates of the Department of Building Economics on 16<sup>th</sup> September 2021 by ChQS. Dulesha Wijesiri. This guest lecture was organized by the Quantity Surveying Alumni Association, University of Moratuwa.

## **Building Economics and Management Research Unit (BEMRU) RESEARCH COLLOQUIUM – Series 75**

The Building Economics and Management Research Unit (BEMRU) virtually conducted its 75<sup>th</sup> research colloquium on “Indexed journal: What does it mean?” on 27<sup>th</sup> October 2021. The guest speakers were Dr. Uthpala Rathnayake and ChQS. Indrani Wimalaratne, who are Lecturers attached to the Department of Building Economics, University of Moratuwa. The presentation was followed by a lively discussion.

magnetic field vector” based on the final year undergraduate project conducted by Mr. Vinura Wickramasinghe, Mr. Sudharaka Perera and Mr. Gihara Wickramathunge, supervised by the late Prof. Ranjit Perera, Dr. WD Prasad and Eng. Rienzie Fernando emerged 02<sup>nd</sup> runner up.

## **Guest Lecture on “Building Materials - Waterproofing”**

An online guest lecture on “Building Materials - Waterproofing” was organized for the Level II Quantity Surveying and Facilities Management undergraduates of the Department of Building Economics. The lecture was delivered by ChQS. Chandana Geeganage, SLES Engineering Services, on 30<sup>th</sup> September 2021.

## **Guest Lecture on “Unleashing the Power Beyond Possible: Motivational Speech”**

An online guest lecture on “Unleashing the Power Beyond Possible: Motivational Speech” was organized for the Level IV Quantity Surveying and Facilities Management undergraduates of the Department of Building Economics on 30<sup>th</sup> October 2021 by Mr. Nuwan Rajapaksha, Coach in Public Speaking and Leadership Development.

## **Guest Lecture on “Preparation of Interim Payment Application and Certification in Expressway Projects”**

An online guest lecture on “Preparation of Interim Payment Application and Certification in Expressway Projects” was organized for the Level III Quantity Surveying undergraduates of the Department of Building Economics. The lecture was delivered by ChQS. Piyasoma, who is the Consultant Chief Quantity Surveyor of the Central Expressway Project – Section II, on 30<sup>th</sup> September 2021.

## **03<sup>rd</sup> International Conference on Electrical Engineering (EECon 2021)**

EECon 2021, the Third International Electrical Engineering Conference organized by the Electrical Engineering Department, University of Moratuwa was successfully held on 24<sup>th</sup> September on virtual mode. EECon 2021 was technically cosponsored by IEEE Sri Lanka Section, and Sri Lanka Chapters of IEEE Power

and Energy Society, IEEE Robotics and Automation Society, and IEEE Power Electronics Society.

Two keynotes, one by Dr. Dinesh Gurusinghe, Simulation Engineer – RTDS Technologies, Canada on ‘Digital Real-Time Simulations for Power and Energy Systems’ and another by IEEE distinguished lecturer, Prof. Kai Sun on ‘Power Conversion Technology for Renewable Energy Systems Integrated into Medium Voltage DC Grids’ were included on the conference program. Furthermore, a workshop on ‘Soft Robotics for Biomedical Applications’ was conducted and the resource persons were Prof. Thrishantha Nanayakkara, Imperial College London and Dr. Thilina Lalitharatne, Postdoctoral Researcher, Imperial College London, UK. Papers were called from 05 technical tracks, namely Power Systems, Power Electronics and Applications, Energy Systems and Smart Technologies, Robotics and Intelligent Systems, and Biomedical Engineering, Electronics Systems and Applications. All the accepted papers are now available on IEEE Xplore digital library and can be accessed through

<https://ieeexplore.ieee.org/xpl/conhome/9580924/proceeding>

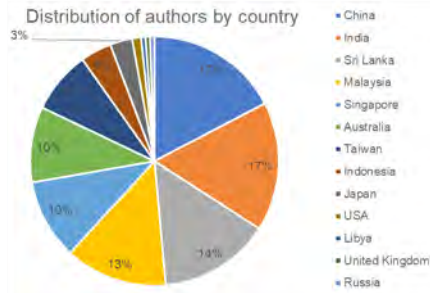
## A Discussion on Safety in Logistics

The Society of Transport and Logistics held its 10<sup>th</sup> webinar in collaboration with Hayleys Advantis Ltd., on 03<sup>rd</sup> September 2021 with the objective of educating students on logistics safety. The speaker, Mr. Gayan Fernando, General Manager, Occupational Health & Safety and Corporate Sustainability, Hayleys Advantis Limited, gave an informative overview of the logistics system’s threats, risks, existing controls, and technology usage in logistics safety.



The Department of Mechanical Engineering (DoME) proudly congratulates

## International Conference in Road and Airfield Pavement Technology



The 12<sup>th</sup> International Conference in Road and Airfield Pavement Technology was held from 14<sup>th</sup> to 15<sup>th</sup> July 2021 as a virtual event. This was organized by the Transportation Engineering Division, Department of Civil Engineering. The conference was technically co-sponsored by the Asian Pavement Engineering Society and Highway Engineering Society, Sri

Lanka. A total of 71 papers were accepted for the conference after the review process and published in a special issue in ‘Lecture Notes in Civil Engineering’ published by Springer Nature (<https://link.springer.com/book/9783030873783>). The conference had over 250 participants attending the 02-day event out of whom there were 95 foreign participants. The conference organizing committee is as follows, Conference co-chairs: Prof. Saman Bandara, Prof. Wasantha Mampearachchi; Program chair: Dr. HR Pasindu; Finance chair: Dr. Loshaka Perera; Publicity chair: Dr. Dimantha de Silva; Track chair(s): Dr. Ishani Dias, Dr. Shiran Jayakody, Dr. Chamod Hettiarachchi.

## Series of Webinars Organized by the Moratuwa University Textile Association (MUTA) – Department of Textile & Apparel Engineering

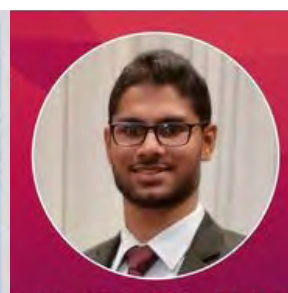
The second successful webinar entitled ‘Sustainable Approach of Textile Chemicals for Apparel Industry’ was held on 02<sup>nd</sup> September 2021 via the Zoom Platform with more than 200 participants. It was facilitated by Mr. Dayantha De Silva, Managing Director of S&D Chemicals Pvt. Limited and moderated by Mr. Dinusha Somasri, Head of Innovation & Development of Hayleys Fabrics Pvt. Limited. The presentation covered the

processing of textile chemicals and auxiliaries, environmental current practices to approach the environment, social & environmental trends on sustainable approaches currently adopted in the industry such as the circular economy concept, zero discharge hazardous chemical contributors, etc. The recording of the session is available on the MUTA YouTube Channel (<https://youtu.be/z2Wz9l-EWL4>).

## Student Achievements

### Prabathiya Herath becomes Sri Lanka Champion in IMechE SOFE Competition 2021

[From Cover page]



Sri Lanka Champion of Speak Out for Engineering (SOFE) competition 2021 organised by the IMechE Sri Lanka Group.

Mr. Prabathiya Herath; a student from the same department representing the University of Moratuwa (UoM), on becoming the

This is the 04<sup>th</sup> consecutive time that a student from the DoME, UoM has reached this milestone. The champion and the runner-up will compete in the South Asia regional competition which will be held in due course. Preliminary rounds were held in August 2021 with more than 20 contestants from 05 different universities in Sri Lanka. 05 students from the DoME UoM (Ms. Sumudu Adikaram, Mr. Ashen Ravindu, Mr. Shayan Gopikrishnan, Mr. Mahela Prasanna, and Mr. Prabathiya Herath) competed in the preliminary round and Mr. Mahela Prasanna and

Mr. Prabathiya Herath became winners and progressed to the finals along with 04 other contestants.

The Sri Lanka Finals were successfully held on 23<sup>rd</sup> of October 2021 with the participation of IMechE Sri Lanka Group officials and the evaluation panel was composed of well experienced members of Toastmasters International.

The DoME wishes Mr. Prabathiya Herath success in the South Asia regional competition and a bright future.

## Janindu Pasan Ranaweera Wins Award for Most Talented Photographer

[From Cover page]



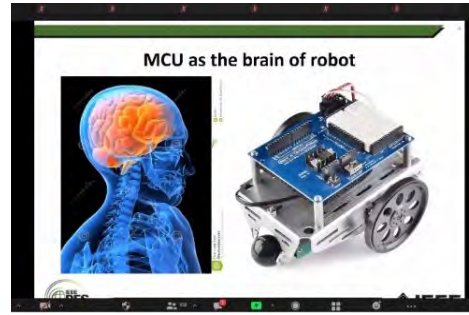
Mr. Janindu Pasan Ranaweera; a student from the Department of Mechanical Engineering (DoME), representing the University of Moratuwa (UoM) has been selected as the “Most Talented Photographer” at the “Tourism Catchy Pixel in Beautiful Sri Lanka” photography competition held on 15<sup>th</sup> October 2021, organized by the Department of Tourism and Hospitality Management and the Tourism and Hospitality Management (TOHOMA) Association, Faculty of Management Studies, Rajarata University of Sri Lanka.

## Mr. Mahdhi Rezvi, IT Faculty Student Wins 33<sup>rd</sup> Place at the Toptal JavaScript Speed Coding Challenge 2021

The Toptal JavaScript Speed Coding Challenge 2021 is an individual algorithmic coding competition based on JavaScript and organized by Toptal - a global remote company that provides a freelancing platform, connecting businesses with software engineers, designers, finance experts, and product managers.

## IEEE for The Countryside (“Gammeddata IEEE Api”) - Phase 2 Selected Gold Winner in the Darrel Chong Student Activity Award 2021

[From Cover page]



IEEE FOR THE COUNTRYSIDE (“GAMMEDDATA IEEE API”) – Phase 2, organized by the IEEE PES Student Branch Chapter of the University of Moratuwa has been selected as a GOLD WINNER of the DARREL CHONG STUDENT ACTIVITY AWARD 2021. This is a remarkable milestone for the student branch chapter since phase 1 was included in the silver category of the DARREL CHONG STUDENT ACTIVITY AWARD 2020.

The project “GAMMEDDATA IEEE API” is an initiative of the IEEE Power and Energy Society (PES) Student Branch Chapter of the University of Moratuwa and is organized in collaboration with Industry Applications Society (IAS) and the Robotics

and Automation Society (RAS) Student Branch Chapters and the IEEE Student Branch, University of Moratuwa. The project was organized with the intention of motivating and lending a helping hand to enthusiastic school children from rural areas of the country by addressing their areas of interest in the field of technology so that they may pursue their dreams and achieve their maximum.

Due to the Covid-19 pandemic situation, phase 2 of the project could not be conducted physically, but an online series of workshops was conducted on 27<sup>th</sup> and 28<sup>th</sup> of March 2021, including 04 sessions in Sinhala and Tamil medium, for interested students throughout the country. The sessions were “Fundamental Concepts of Arduino”, “Fundamental Concepts of Drone Technology”, and a DIY Project: Arduino based CNC Machines” and “Machine Learning & Arduino Programming in C++” in both Sinhala and Tamil mediums. Phase 2 of “GAMMEDDATA IEEE API” was capable of touching the hearts of over 3000 students in the whole country ranging from grade 06 to grade 13.

## Civil Engineering Undergraduate Mr. JA Moses Receives the Engineer Chandrasena Award for Mr. Jesudasan Arjoon Moses Wins Award for Best Paper at the IESL Young Members’ Technical Conference 2021

[From Cover page]



“Mix Design and Pavement Analysis of Thin Surfaced Asphalt Pavements for Low-Volume Roads”, a final year individual research project of Mr. Jesudasan Arjoon Moses under the supervision of Prof. WK Mamparachchi won the “Engineer Chandrasena Award for Best

Paper – 2021” at the IESL Young Members’ Technical Conference 2021, held on the 09<sup>th</sup> October 2021. 43 research papers were selected out of more than 145 submissions from undergraduates and young engineers below the age of 35 islandwide.

As the research proved that thin asphalt pavements (thickness 20mm – 25mm) are satisfactory for low-volume roads from the mechanistic analysis and revealed the asphalt mix design which has a significant cost reduction, the Road Development Authority and other road construction agencies could potentially benefit from the use of the research findings.



The competition had over 4000 participants, including Software Engineering professionals and JavaScript experts from all over the world. The main objective of the competition was to solve and submit the given algorithmic problem as fast as possible. This competition lasted over a week from 27<sup>th</sup> September to 10<sup>th</sup> October, with new challenges being added daily. Mr. Mahdhi Rezvi, a final year student of the Faculty of Information Technology achieved the global rank of 33, Asia and Pacific rank of 09, and Sri Lanka rank of 01 and was included among the top 01% of participants and brought glory to Sri Lanka and also to the University of Moratuwa on a global stage.

The Faculty of IT congratulates Mr. Mahdhi on his great achievement and extends wishes for a bright future. According to Mr. Mahdhi, none of this would have been possible without the support and dedication of many parties. Therefore he would like to thank his parents, fellow batch mates, senior students of the Faculty, academic staff, and the Dean, Mr. BH Sudantha for their support.



For the first time in EXPO exhibition history, countries were given the opportunity of designing their national pavilion through a design competition organized by EXPO Dubai 2020 held in 2021-2022. The competition was organized through the Creative Youth Program of the exhibition, which aimed at empowering, engaging, and involving youth in national innovation endeavours. Two student teams under the guidance of lecturers from the Bachelor of Design Honours Degree Programme,

## Miss. Dinithi Fernando, IT Faculty student awarded 03<sup>rd</sup> place at UPSKILL Sri Lanka 2021



UPSKILL Sri Lanka 2021 Article Writing competition is an Inter-University article

writing competition organized by the Institute of Electrical and Electronics Engineers Young Professionals Region 10. Undergraduates from the various universities were given an opportunity to generate creative ideas and thoughts relevant to IEEE Young Professionals Sri Lanka. Miss. Dinithi Fernando, a third-year undergraduate of the Faculty of Information Technology was awarded third place in this competition on 11<sup>th</sup> October 2021, after successfully completing the Initial Filtration round, Semi-Finals, and the voting round.

## Moratuwa Students win National Pavilion Design at Expo 2020 Dubai and Secure International Sponsorship for Construction of Sri Lanka Pavilion

[From Cover page]



Department of Integrated Design participated in the global competition - Creative Youth Program (CYP). The project was coordinated in collaboration with Sri Lanka Export Development Board and Organizers of CYP- Dubai.

Both teams led the competition and won first and first runner up places. The winners' design concept "Opportunity beyond Waters", which also comprised the thematic statement, creative expression, and design solution, highlights the socio-cultural practices of Sri Lanka as an island nation with ancient maritime trade routes and cultural contacts with Far Eastern and Western regions of the world.

The first runner up team's design concept for the competition was "Island of

Ingenuity". The intention was to showcase the efforts of social, economic technological and cultural aspects that make up the life of the nation.

This achievement of the Department of Integrated Design students received a LKR 700 million financial sponsorship from the EXPO Dubai committee to construct the national pavilion, which the Sri Lankan authorities would have otherwise borne. This was additional to the prize of USD 6000 awarded to the winning team. The international recognition and sponsorship drawn to the competition were highlighted at the Press Briefing held at Export Development Board on Sri Lanka's Participation in the Dubai Expo (26.02.2019.) with the participation of the

former Minister of Development Strategies and International Trade Mr. Malik Samarawickrema, Chairperson and Chief Executive of E.D.B. Mrs. Indira Malwatte and Former Vice-Chancellor of University of Moratuwa, Prof. KKCK Perera.

The winning team members were Dulaj Perera (Team Leader), Vikasitha Anumewan, Dinuka Amarakoon, Randika DeSilva, Himesh Rajapaksha, Imali De Silva, Rajika Thilakarathne, Abdul Rahuman and the first runner up team consisted of Dinu Munasinghe (Team Leader), Udari Mohotti, Tharushi Mendis, Thirunika Nethmini, Deshaja Kulathunga, Warana Probodha, Jithmi Wijesinghe, Chalana Thilakarathna. The competition entries were coordinated by Ms. Ruwani Rathnayake (Lecturer) with the Sri Lanka Export Development Board



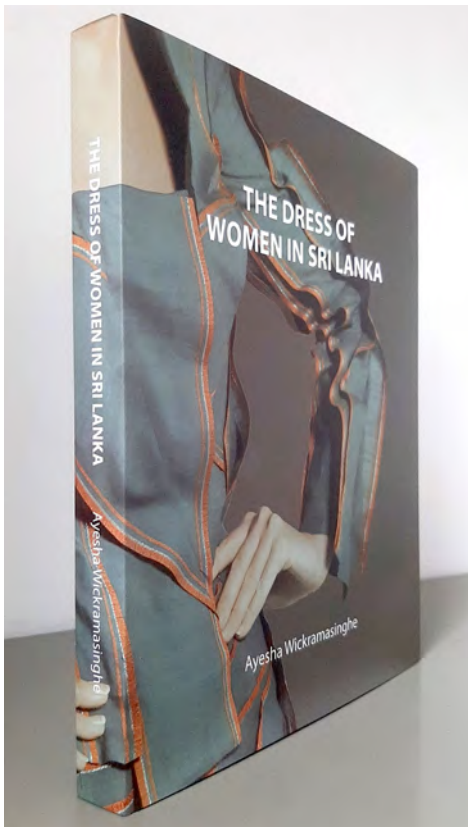
and organizers of C.Y.P. Dubai. The two student teams were guided by Mr. Dilina Nawarathne (Lecturer) and Archt. Sagara Jayasinghe (Senior Lecturer), respectively,

and teams were steered by the Former Head of Department, Archt. Sithumini Rathnamalala.

## Staff Achievements

### BOOK LAUNCH: 'The Dress of Women in Sri Lanka'

[From Cover page]



Dr. Ayesha Wickramasinghe, Senior Lecturer in Fashion Design and Product Development, Department of Textile and Apparel Engineering published a book entitled 'The Dress of Women in Sri Lanka' sponsored by the National Science Foundation (NSF) under the publication grant scheme for promoting science and technology publications. The dress

of people of a country designates its authenticity and the dress of women is most discernible. Twentieth-century dress variations of Sri Lankan women were

extraordinary compared to those of other centuries and influences were almost unknown and little researched. This book is principally focused on evaluating the aesthetic values of female clothing during the 20<sup>th</sup> century and analyzed in view of the geographic, historical, patriotic, political, ethnic, caste and sexual interactions during the century by focusing on colonial, postcolonial and industrialization periods, dealing with a number of important arguments concerning female clothing approaches in the context of relevant fashion movements. This book makes an original contribution to the field, expanding the understanding of female clothing approaches, fashion behaviour and movements by exploring the phenomenon of fashion. Further, this book fills the gap in Sri Lankan female fashion between the ancient and present periods.

### Best Paper Award at SLMA 134<sup>th</sup> Anniversary International Medical Congress

The paper entitled "Image Processing for the Detection of Papillary Thyroid Carcinoma using Nuclear Features", authored by Mr. Kasun Perera (a graduate from B15 in BSc Hons in IT), Dr. Thushari Silva (Senior Lecturer, Department Computational Mathematics, University of Moratuwa), Dr. Harshima Wijesinghe and Prof. Chandu de Silva from Department of Pathology, Faculty of Medicine, University of Colombo received the Daphne Attygalle Award for the best paper in Cancer Poster Presentation at the SLMA 134<sup>th</sup> Anniversary International Medical Congress held in September 2021. The research focuses on applying image processing and Machine learning techniques to model nuclear features and detect papillary carcinoma. The research publication is an output of an ongoing collaboration project between experts in the Department of Computational Mathematics, Faculty of Information Technology and the Department of Pathology, Faculty of Medicine, University of Colombo.



**Fellowship of Sri Lanka  
Library Association -  
Mrs. Thushari M Seneviratne**



Mrs. Thushari M Seneviratne, Senior Assistant Librarian of University of Moratuwa was awarded the Fellowship of Sri Lanka Library Association on 15<sup>th</sup> of October 2021 at its 61st Annual General Meeting.

**Fellowship of Sri Lanka  
Library Association -  
Mrs. Upeksha Nishanthi**



Mrs. Upeksha Nishanthi Kodithuwakku, Senior Assistant Librarian of the Reader Services Division & Outreach Services Division of Library, University of Moratuwa was honoured with fellowship of Sri Lanka Library Association recently.

She graduated from the University of Peradeniya in 2008 with a B.A (Special) Degree in Archaeology with a Second Class Upper Division. She obtained MSSc in Library and Information Science from the Faculty of Social Sciences, University of Kelaniya in 2015 and she also holds a Masters of Public Administration (MPA)

offered by the Faculty of Graduate Studies, University of Colombo.

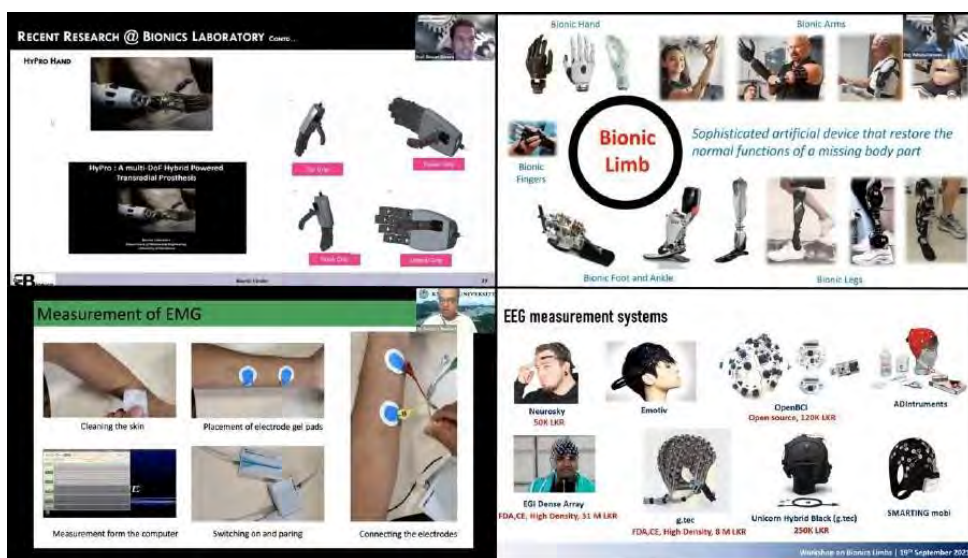
She joined the University of Moratuwa on the 23<sup>rd</sup> of May 2013 and was promoted to Senior Assistant Librarian- Grade 11 in the year 2018. She has contributed her knowledge in collection development and user satisfaction while working under several arms of the Library and supports the research culture of the faculties through conducting user awareness programs.

Mrs. Kodithuwakku served as a Visiting Lecturer for the Organization of Information-Classification module

conducted in English medium at Sri Lanka Library Association during the year 2017. From the year 2018 onwards she is serving as a committee member in COMASP Special Committees on Prison Library Development and Library Architecture. She is a member of University Librarians' Association, University of Moratuwa Teachers' Association, Royal Asiatic Society, Archaeological Society and IBBY of Sri Lanka. Since 2018, she serves as a pre-academic term committee member at the University of Moratuwa and currently represents the library as a faculty board member of the Faculty of Business.

**Exhibitions, Field Trips & Workshops**

**Workshop on Bionic Limbs**



The Bionics Laboratory and the Center for Biomedical Innovation of the University of Moratuwa made another stride towards educating the public on Biomedical Technology through a two-day workshop on “Bionic Limbs: Shaping Humanity using Technology”.

Powered by the American Center Colombo, organized by MakerSpace, and sponsored by Innovator Park International, this workshop was held on 18<sup>th</sup> and 19<sup>th</sup> September 2021 as a part of the Advanced Tech series by MakerSpace.

Nearly 200 enthusiasts including an international audience participated in this workshop which was coordinated by Dr. Gayani K. Nandasiri from the Center for Biomedical Innovation. A vast range of tech enthusiasts from school children to professionals in the field gathered in this virtual event to expand their knowledge on bionic limbs and prosthetic technologies.

Experts from the University of Moratuwa -Sri Lanka, Imperial College London - UK, and Kyushu University - Japan, along with researchers from the University of Moratuwa - Sri Lanka and DePaul University - USA, joined together to bring the technological advancements behind the design, development and control of bionic limbs to light while sharing their own experience in this field. The speakers have all been affiliated with the Bionics Laboratory, Department of Mechanical Engineering, University of Moratuwa during their careers. Prof. Ruwan Gopura provided an intriguing preface to the workshop and bionics technology, through his session, “How Bionic Limbs are Improving Lives”. This was followed by an extensive and stimulating session on the design process of bionic limbs, “From Need to Aid”, conducted by Eng. Pubudu Ranaweera.

Dr. Sanjaya Bandara and Dr. Thilina Lalitharatne educated the participants on control methods of bionic limbs, focusing on the contributions made by EMG and EEG technologies. These sessions named “Muscle Signal-Based Control of Bionic Devices” and “Brain Signal-Based Control of Bionic Devices” involving state-of-the-

art control strategies behind the bionic technology captivated the audience. The conclusion of the workshop was marked with success stories in developing bionic limbs, shared by Engineers .

Achintha Abayasiri and Kithmi Widanage. This session was specifically useful for

students contemplating stepping into the field of bionics in the future.

This highly engaging workshop was concluded by inviting participants to take part in a “Prosthetic finger design challenge” to expand their understanding of the field.

## Clubs & Societies

### “How to be a UI/UX Engineer” By INTECS



The program, “How to be a UI/UX Engineer” was organized by the INTECS

(Information Technology Society) of the Faculty of Information Technology in two sessions. The resource person was Ms. Harshani Chathurika who is a UI/UX engineer at ASCENTIC as well as an alumna

### A Discussion entitled “Introduction to Multivariate Analysis”



The society of transport and logistics presented the third in the software workshop series, on the topic “Introduction to Multivariate Analysis” on 21<sup>st</sup> October 2021. The session was conducted by Mrs. Uthpalee Hewage, Lecturer, Department of Transport and Logistics Management.

of the Faculty of Information Technology.

The title of the first session of the program was “Who is a UI/UX engineer?” and the second session was entitled “How to build an innovative software product for yourselves”. Around 100 participants, including the students of the IT Faculty participated in both sessions and the program was successfully concluded under the guidance of Dr. Supunmali Ahangama, Senior Treasurer of INTECS, and Dr. Lochandaka Ranathunga, Senior Advisor of INTECS

### Workshops Organized by the Brain Wave Case Study Competition of the Society of Transport and Logistics

Brain Wave coaching sessions are a series of workshops organized by the Brain Wave case study competition of the Society of Transport and Logistics for the competitors to develop skills in professional development. It was held on 30<sup>th</sup> October 2021. The 1<sup>st</sup> session entitled “Introduction to Path Planning and Optimization Algorithms” was conducted by Mr. Tharaka Rathnayake, final year undergraduate of the Department of Computer Science and Engineering. The second session entitled “Introduction to Basics of UI designing” was conducted by Mr. Achintha Isuru, Final-year undergraduate, Department of Computer Science and Engineering.

### Rhythm Divine 2021 - Society of Transport and Logistics

Rhythm Divine is an event where TLMers get the opportunity to showcase their talents and creativity, This year the event was held via an online platform on 15<sup>th</sup> of October 2021. The event was successfully conducted with the participation of undergraduates and academic staff members.

### Career Development Program 1.0 – ‘You Create It’ by the Moratuwa University Textile Association (MUTA) – Department of Textile & Apparel Engineering

This is another important session in the MUTA 2021 calendar as it was identified as a timely topic that the industry needs during this pandemic period. This webinar was held on 25<sup>th</sup> September 2021 with more than 200 participants and was conducted by three Directors who graduated from the Department of Textile and Apparel Engineering namely Mr. Samantha Senevirathne (Director of Manufacturing & Operations at Bodyline PLC), Mr. Dilesh Fernando (Director of Quality & Compliance at MAS Intimates PLC) and Mr. Yasas Samarakoon (Director of Operations at MAS Kreedha). Mr. Isuru Madanayake – Head of Outsourced Operations of Consumer Food at John Keels Holdings PLC was the moderator of the session. The session shared important guidance for future graduates to plan their career in the industry.

# Appointments & Promotions

## Directors



**Prof. SR Munasinghe** has been appointed to the Post of Director/Enterprise (on part – time basis) with effect from 17.04.2020.



**Dr. (Ms.) TC Sandanayake** has been appointed to the Post of Director/ Postgraduate Studies of the Faculty of Information Technology for a period of three (03) years with effect from 07.11.2019.

**Dr. HLK Perera** has been appointed to the Post of Senior Lecturer Grade II in the Department of Civil Engineering with effect from 15.09.2020.

**Mr. WVPR Fernando** has been appointed to the Post of Lecturer (probationary) in the Department of Textile & Clothing Technology with effect from 15.09.2020

## Promotions



**Dr. (Ms.) KGAS Waidyasekara** has been promoted to the Post of Senior Lecturer Grade I in the Department of Building Economics with effect from 04.08.2019.



**Dr. (Ms.) DA Meedeniya** has been promoted to the Post of Senior Lecturer Grade I in the Department of Computer Science & Engineering with effect from 10.10.2019 .



**Dr. WD Prasad** has been promoted to the Post of Senior Lecturer Grade I in the Department of Electrical Engineering with effect from 01.01.2020.

## New Appointments

**Mr. SRSMC Samarakkody** has been appointed to the Post of Lecturer (probationary) in the Department of Mathematics with effect from 01.11.2019.

**Ms. RMAS Rathnayake** has been appointed to the Post of Career Guidance Counsellor in the Career Guidance Unit with effect from 01.12.2019.

**Dr. KKMNP Samaraweera** has been appointed to the Post of Career Guidance Counsellor in the Career Guidance Unit with effect from 01.12.2019.

**Dr. (Ms.) MA Pallewattha** has been appointed to the Post of Senior Lecturer Grade II in the Department of Civil Engineering with effect from 15.09.2020.

**Mr. TGYS Perera** has been appointed to the Post of Senior Lecturer Grade II in the Department of Civil Engineering with effect from 15.09.2020.

**Mr. MTOV Peiris** has been appointed to the Post of Lecturer (probationary) in the Department of Town & Country Planning with effect from 15.09.2020.



**Dr. YMMS Bandara** has been promoted to the Post of Senior Lecturer Grade I in the Transport & Logistics Management with effect from 01.09.2019.



**Dr. DP Chandima** has been promoted to the Post of Professor in the Department of Electrical Engineering with effect from 04.07.2019.



**Dr. CL Jayawardena** has been promoted to the Post of Senior Lecturer Grade I in the Department of Earth Resources Engineering with effect from 24.01.2018.

**Dr. JABU Jayasinghe** has been appointed to the Post of Senior Lecturer Grade II in the Department of Mathematics with effect from 01.11.2019.

**Dr. M Horadagoda** has been appointed to the Post of Senior Lecturer Grade II in the Department of Mechanical Engineering with effect from 01.01.2020.

**Ms. GN Pushpa Mallika** has been appointed to the Post of Assistant Registrar in the Non Academic Establishments Division with effect from 11.05.2020.

**Dr. TP Miyanawala** has been appointed to the Post of Lecturer (unconfirm) in the Department of Mechanical Engineering with effect from 15.09.2020.

**Mr. RMHW Muwanwella** has been appointed to the Post of Lecturer (probationary) in the Department of Textile & Clothing Technology with effect from 15.09.2020.

**Mr. SRA Bolonne** has been appointed to the Post of Lecturer (probationary) in the Department of Electrical Engineering with effect from 15.09.2020.



**Dr. LCI Sigera** has been promoted to the Post of Senior Lecturer Grade I in the department of Transport & Logistics Management with effect from 18.08.2018.



**Dr. SP Chaminda** has been promoted to the Post of Senior Lecturer Grade I in the Department of Earth Resources Engineering with effect from 10.01.2018.



**Dr. (Ms.) ABN Dassanayake** has been promoted to the Post of Senior Lecturer Grade I in the Department of Earth Resources Engineering with effect from 01.11.2018.



**Ms. BH Mallawaarachchi** has been promoted to the Post of Senior Lecturer Grade II in the Department of Building economics with effect from 18.12.2018.



**Dr. (Ms.) PD Talagala** has been promoted to the Post of Senior Grade II in the Department of Computational Mathematics with effect from 01.01.2020.



**Dr. UP Nawagamuwa** has been promoted to the Post of Professor in the Department of Civil Engineering with effect from 31.07.2019.



**Dr. (Ms.) JCPH Gamage** has been promoted to the Post of Professor in the Department of Civil Engineering with effect from 25.02.2019.



**Dr. GD Samarasinghe** has been promoted to the Post of Senior Lecturer Grade I in the Department of Industrial Management with effect from 02.07.2018.



**Dr. I Mahakalanda** has been promoted to the Post of Senior Lecturer Grade I in the Department of Decision Sciences with effect from 02.08.2018.



**Mr. CM Suwandaarachchi** has been promoted to the Post of Senior Lecturer Grade II in the Department of Management of Technology with effect from 01.01.2013.



**Mr. WDAS Wijayapala** has been promoted to the Post of Professor in the Department of Electrical Engineering (on merit) with effect from 14.02.2017.



**Dr. JN Munasinghe** has been promoted to the Post of Professor in the Department of Town & Country Planning (on merit) with effect from 01.01.2020.



**Dr. (Ms.) WB Gunawardana** has been promoted to the Post of Professor in the Department Civil Engineering with effect from 12.12.2019.



**Dr. RLHL Rajapakse** has been promoted to the Post of Professor in the Department Civil Engineering with effect from 13.12.2019.



**Dr. (Mrs.) UGS Wijayapala** has been promoted to the Post of Professor in the Department of Textile & Clothing Technology (on merit) with effect from 22.05.2019.



**Prof. AADAJ Perera** has been promoted to the Post of Senior Professor in the Transport & Logistics Management with effect from 23.07.2017.



**Dr. (Ms.) HL Liyanage** has been promoted to the Post of Senior Lecturer Grade II in the Transport & Logistics Management with effect from 06.10.2015.



**Dr. YWR Amarasinghe** has been promoted to the Post of Professor in the Department of Mechanical Engineering (on merit) with effect from 12.12.2019.



**Dr. (Mrs.) MA Wijewardane** has been promoted to the Post of Senior Lecturer Grade I in the Department of Mechanical Engineering with effect from 17.03.2020.



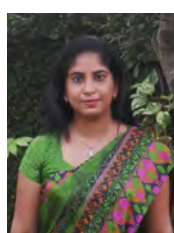
**Dr. RACP Ranasinghe** has been promoted to the Post of Senior Lecturer Grade I in the Department of Mechanical Engineering with effect from 17.03.2020.



**Dr. (Ms.) SK Abeygunawardane** has been promoted to the Post of Senior Lecturer Grade I in the Department of Electrical Engineering with effect from 17.02.2020.



**Mr. R Sankaranarayana** has been promoted to the Post of Senior Lecturer Grade I in the Industrial Training Division, Faculty of Engineering with effect from 26.01.2019.



**Dr. (Ms.) ITS Piyatilake** has been promoted to the Post of Senior Lecturer Grade II in the Department of Computational Mathematics with effect from 02.11.2020.



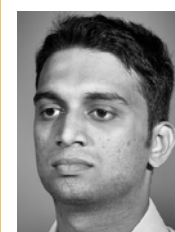
**Dr. (Ms.) TC Sandanayake** has been promoted to the Post of Senior Lecturer Grade I in the Department of Interdisciplinary Studies with effect from 01.06.2016.



**Ms. WASN Wijetunge** has been promoted to the Post of Senior Lecturer Grade I in the Department of Interdisciplinary Studies with effect from 05.03.2019.



**Dr. (Ms.) KSD Fernando** has been promoted to the Post of Senior Lecturer Grade I in the Department of Computational Mathematics with effect from 31.08.2019.



**Dr. MPAP Wijayasiri** has been promoted to the Post of Senior Lecturer Grade II in the Department of Computer Science & Engineering with effect from 03.02.2019.



**Dr. (Ms.) SSMR Samarawickrama** has been promoted to the Post of Senior Lecturer Grade I in the Department of Integrated Design with effect from 17.03.2020.



**Dr. MCK De Silva** has been promoted to the Post of Senior lecturer Grade II in the Department of Town & Country Planning with effect from 31.08.2020.



**Dr. END De Silva** has been promoted to the Post of Professor in the Department of Building Economics with effect from 20.11.2019.



**Dr. GIUS Perera** has been promoted to the Post of Professor in the Department of Computer Science & Engineering with effect from 24.10.2019.



**Dr. (Mrs.) SM Egodage** has been promoted to the Post of Professor in the Department of Chemical & Process Engineering (on merit) with effect from 09.12.2019.



**Dr. (Mrs.) SHP Gunawardena** has been promoted to the Post of Professor in the Department of Chemical & Process Engineering (on merit) with effect from 02.12.2019.



**Dr. (Ms.) PVM Karunaratne** has been promoted to the Post of Professor in the Department of Textile & Apparel Engineering (on merit) with effect from 12.12.2019.



**Dr. (Mrs.) GM Ranathunga** has been promoted to the Post of Professor in Fashion and Product Development in the Department of Textile & Apparel Engineering (on merit) with effect from 12.12.2019.



**Mr. RKPS Ranaweera** has been promoted to the Post of Senior Lecturer Grade I in the Department of Mechanical Engineering with effect from 16.07.2018.



**Ms. KN Neranja** has been promoted to the Post of Instructor (Computer Technology) Grade I in the Department of Information Technology with effect from 01.11.2020.



**Dr. AC De Silva** has been promoted to the Post of Senior Lecturer Grade I in the Department of Electronic & Telecommunication Engineering with effect from 17.02.2020.



**Mr. S Sooriyaarachchi** has been promoted to the Post of Engineer (Computer Maintenance) Grade II in the Department of Computer Science & Engineering with effect from 03.12.2019.

**Mr. SA Nanayakkara** has been promoted to the Post of Senior Lecturer Grade I in the Department of Mechanical Engineering with effect from 05.02.2021.

## Sports



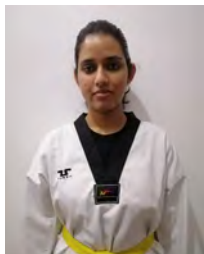
**A De Silva**



**D Rajapakse**



**M Chethiyawardana**



**N Samaruthilaka**



**S Wijesooriya**



**S Randoombage**

2021 VIRTUAL KOREAN AMBASSADOR'S CUP TAEKWONDO CHAMPIONSHIP		
Open Category		
<b>Gold Medalists</b>		
L.M Chethiyawardane	Men	Blue
K.P.S.Y Karunanayake	Women	Green
G.H.A.H.N De Silva	Women	Blue
R.A.D.N Rajapakse	Women	Black
<b>Silver Medalists</b>		
S.P Randoombage	Men	Blue
W.M Anjana	Men	Red
<b>Bronze Medalists</b>		
B.P.D.V Jayaweera	Women	Blue

Best Wishes From Mora TKD

2021 VIRTUAL KOREAN AMBASSADOR'S CUP TAEKWONDO CHAMPIONSHIP		
University Category		
<b>Gold Medalists</b>		
N.L.N.T Lekamge	Men	Yellow
S.P Randoombage	Men	Blue
N.N Samaruthilake	Women	Yellow
G.H.A.H.N De Silva	Women	Blue
<b>Silver Medalists</b>		
L.M Chethiyawardane	Men	Blue
H.G.N.P Amarathunge	Women	Yellow
K.A.S Wijesuriya	Women	Green
<b>Bronze Medalists</b>		
W.A Chandana	Men	Yellow
K.P.S.Y Karunanayake	Women	Green

Best Wishes From Mora TKD



**T Lekamge**



**Y Karunanayake**



**P Amarathunga**

# Felicitation Ceremony

## A felicitation ceremony of Senior Professor Priyan Dias



A felicitation ceremony for Senior Professor Priyan Dias was held on 30<sup>th</sup> September 2021, the day of his retirement as a hybrid event launched from the boardroom of Faculty of Graduate Studies at the University of Moratuwa. The event was organized by the Department of Civil Engineering to celebrate his 40+ years of distinguished service to the department and the university.

The highlight of the event was the farewell lecture by Senior Professor Dias aptly titled “On Connectivity” where he traced

the linkages of many aspects of his research. These included truss and road connectivity; system dynamics for concrete durability; neural networks for pattern recognition; structuring and interactions among various types of connected entities (e.g. in vulnerability, sustainability and degradation); socio-technical linkages (e.g. in resilience); and analogical transposition. His former research students paid tribute to their research mentor by presenting him a volume of selected papers previously published by them in reputed journals.



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Editor : Mr. Sanath Gunawardena  
[E-mail: sanathg@uom.lk]  
Published by : Library  
University of Moratuwa  
Page Layout : Mr. BMS Mendis



University of Moratuwa

# Bimonthly UOM news

# 2021

September - October  
Volume: 10  
Issue: 05  
ISSN: 2279-2023



ISSN 2279-2023