



UNIVERSITY OF VOCATIONAL TECHNOLOGY
INTERNATIONAL RESEARCH SYMPOSIUM -2023

1. CALL FOR PAPERS

The International Research Symposium 2023 of the University of Vocational Technology has been scheduled for 14th Thursday December 2023.

This Symposium aims to bring together scholars, innovative researchers, academics, practitioners, and students from different Universities, University colleges, R & D Institutes, TVET sector institutes and private sector institutions for discussions on challenges, opportunities, and innovations under the theme of “**Emerging Technologies and Skills for Resilient Industries**”

Prospective authors are invited to submit their research papers written in English on subject matters related to any of the sub-themes of the sessions. The prospective, valuable contributions will be evaluated by a Scientific Review Committee.

Theme of the International Research Symposium 2023:

“Emerging Technologies and Skills for Resilient Industries”

Exploring Emerging Technologies and Skills for Resilience in TVET, and Industry, delves into the examination of novel technologies and the cultivation of relevant skills to foster resilience in diverse industries. This underscores the significance of investigating and understanding the latest advancements in technology, such as artificial intelligence, robotics, data analytics, and renewable energy, and their implications for resilience.

In this context, resilience encompasses the ability to adapt, innovate, and withstand disruptions in a rapidly evolving landscape. By exploring emerging technologies, we seek to

uncover their potential applications and how they can be effectively integrated into the realms of TVET and industry to bolster resilience. This exploration involves analyzing the impact of these technologies on teaching and learning methodologies, research practices, industry operations, and overall socio-economic systems. It prompts us to assess how these technologies can equip individuals, institutions, and industries with the skills and capabilities to thrive in the face of challenges, such as technological disruptions, changing market demands, and global crises.

Furthermore, this exploration necessitates a focus on the development of relevant skills for a resilient future. It involves identifying and nurturing the competencies needed to leverage emerging technologies effectively. This encompasses skills such as digital literacy, critical thinking, problem-solving, adaptability, creativity, and collaboration. By understanding the evolving skill requirements in light of emerging technologies, we can align TVET programs, academic research initiatives, and industry practices to equip individuals with the necessary skills to navigate and succeed in the dynamic and technology-driven environments of the future. Ultimately, the exploration of emerging technologies and skills for resilience opens doors to innovative solutions, empowers individuals and organizations to embrace change, and lays the foundation for sustainable and thriving ecosystems in TVET, academic research, and industry.

“Emerging Technologies and Skills for Resilient Industries” holds significant importance in several ways:

1. **Knowledge Sharing and Collaboration:** A research conference provides a platform for researchers, educators, industry professionals, and policymakers to come together and share their knowledge, expertise, and insights on emerging technologies and skills for resilience. It facilitates fruitful discussions, networking opportunities, and the exchange of ideas, fostering collaboration and interdisciplinary approaches. Through presentations, workshops, and panel discussions, participants can contribute to the collective understanding of how emerging technologies and skills can drive resilience in TVET, academic research, and industry.

2. **Promoting Innovation and Best Practices:** The conference serves as a catalyst for innovation by showcasing cutting-edge research, innovative practices, and successful case studies related to emerging technologies and skills for resilience. It provides a forum for researchers and practitioners to present their findings, methodologies, and practical implementations. By disseminating this knowledge, the conference stimulates the adoption of best practices, encourages experimentation, and inspires participants to develop novel solutions to challenges faced by TVET, academic research, and industry sectors.
3. **Addressing Current and Future Needs:** The exploration of emerging technologies and skills for resilience is crucial in addressing the evolving needs and demands of a rapidly changing world. By focusing on this theme, the research conference helps identify emerging trends, gaps, and opportunities in the fields of TVET, academic research, and industry. It enables participants to gain insights into the skills and competencies required for a resilient workforce, the potential of emerging technologies in transforming education and research practices, and the implications for industry competitiveness and sustainability. The conference acts as a platform for proactive discussion and collaboration to address the challenges and leverage the opportunities presented by emerging technologies and skills.
4. **Policy and Decision-Making:** The outcomes and recommendations derived from the research conference can influence policy development, strategic planning, and decision-making processes in TVET, academic research, and industry sectors. The insights and findings presented during the conference provide valuable inputs for policymakers, educational institutions, and industry leaders in shaping future-oriented policies, curriculum development, investment strategies, and workforce development initiatives. The conference can contribute to evidence-based decision-making and foster partnerships between academia, industry, and policymakers to drive resilient and sustainable growth.

2. SUB-THEMES:

Five sub themes are proposed based on disciplines of four faculties and one theme is allocated for TVET sector.

1. **Resilient industries for Sustainable future:** This theme encompasses areas of innovative industrial management, advances in agriculture and food technology innovations and best practices , emerging trends in media technology and content production, sustainability and green production in Textile and Apparel industry.

The role and contribution of quantity surveying in construction industry and the hospitality Industry for economic development are also considered.

1.1 Waste treatment, waste management and circular economy for sustainable industries

2. **Accelerating innovations for resilience in engineering and technological solutions**
This theme encompasses areas of advancements in Manufacturing Technology, emerging role of mechatronics, sustainable construction Practices and resilient infrastructure development, resilient built environment, renewable energy and energy management for a green and sustainable future.
3. **ICT for socio-economic empowerment and creation of new industries.** This theme encompasses areas of Information and Communication Technologies to reach goals of Industry 4.0 and support Sustainable Development Goals (SDG).
4. Innovative pedagogies and technology support for learning to build transformational educational platforms. This theme encompasses areas of education management, innovative learning environments, advances in content delivery, and support for language diversity.

5. TVET : Skills and Competencies for Resilient Workforce Development

- Best practices in TVET curriculum development and implementation
- Technological advancements and digitalization in TVET
- Industry partnerships and collaborations in TVET
- Skills development and employability in the TVET sector
- Innovations in teaching and learning methodologies for TVET
- Addressing gender equity and inclusivity in TVET programs
- Assessment and certification strategies in TVET
- Sustainable development and green skills in the TVET sector
- Policy and governance in TVET systems
- Quality assurance and accreditation in TVET institutions

3. KEY DATES

First Call for papers	-	24 th May 2023
Submission deadline	-	31st July 2023 Extended up to 15th August 2023
Notification of acceptance		30 th August
Final Camera-ready copy	-	1 st Oct 2023
Start of Early bird registration	-	1 st Sept 2023
Date of Registration	-	On or before 01 st Dec 2023
Date of Symposium	-	14 th Dec 2023
Journal publication	-	Selected papers will be invited to journal publication

***Authors from University of Vocational Technology, University Colleges and TVET sector institutes under the Ministry of Education are excluded from paying registration fees.**

Registration fee: Local Students- LKR 4500
Local Non-students- LKR 7500
Foreign - \$50

Early bird registration fee: Local Students- LKR 3000
Local Non-students- LKR 5000
Foreign - \$30

Particulars related to the payment of registration fees for the authors will be informed with the notification of acceptance.

The research papers should be submitted to the **Conference Management Toolkit (CMT)**.

Submitted articles must not have been previously published, nor should they be submitted for consideration for publication elsewhere, while under review for this symposium. The similarity index for the plagiarism check is maximum of 20%.

For further details on how to submit article, please refer to “Author Guidelines”

4. SYMPOSIUM TENTATIVE PROGRAM

14th December, 2023

8.30 AM	Registration
9.00 AM	Welcome Address by Symposium Chair
9.05 AM	Symposium commencement
9.15 AM	Address by Vice Chancellor
9.30 AM	Speech by the Chief Guest
9.50 AM	Cultural Item
10.00 AM	Keynote Speech by guest of honor
10.40 AM	Introduction to Technical Sessions and Vote of Thanks by Symposium Secretary
10.30 AM	Closing of the Inauguration
11.00 AM	Tea/Coffee Break
11.30 AM	Panel discussion
1. 00 PM	Lunch Break

2. 00 PM Parallel sessions
4. 00 PM Tea/Coffee Break

5. SYMPOSIUM ORGANIZING COMMITTEE

Symposium Chair

- Mr. H.A. Seneviratne, Senior Lecturer, Faculty of ICT, University of Vocational Technology

Advisory Committee

- Prof. C. Mahesh Edirisighe , Vice Chancellor, UoVT
- Prof. G.L.D. Wickramasinghe, Director General, Colombo Plan Staff College/former Vice Chancellor- UoVT
- Dr. L.W.S. Kularatne ,Dean – Faculty of Education /Former Chair -IRS-2022
- Prof. Chandana Jayalath ,Dean- Faculty of Industrial Technology /Former Chair -IRS-2021
- Dr. D.D.D. Suraweera Senior Lecturer ,Former Dean /Chair IRS 2017
- Dr. L.Ranathunga- Senior Lecturer, Department of Information Technology, Faculty of Information Technology, University of Moratuwa
- Representatives from ILO, IOM and UNESCO

Programme Committee

Prof. Chandana Gamage- Programme Chair
Prof. Chandana Jayalath
Dr. Sunil Kularathna
Dr. D.D.D. Suraweera
Dr. (Ms.) R.S. Palliyaguru
Dr. Jayalal Weththasinghe
Dr. Sanjeewa Sondarangallage
Dr. R.L.W. Koggalage
Dr. Kamal Edirisinghe
Dr. (Ms.) Erandya Jayawardena
Dr. Kasun Nandapala
Dr. S.A.N Dhanushka
Ms. J. A. M. Buddhima Karunarathna
Ms. Methmini Rathnapala
Ms. Indrachapa Gunasekera
Mr. Gayan Madushanka

Ms. Pramodi Somarathna
Ms. L. H. D. L. Ranasuriya
Ms. A. A. Gunawardana
Ms. L.A.M.H.P Udayakumari
Mr. P.Uruthiran

Organizing Committee Members

- Ms. M.Thenabadu (Secretary)
- Ms.Methmini Ratnapala (Co-Secretary)
- Ms.W.A.I.M. Gunasekara Co-Secretary)
- Dr. Kamal Edirisinghe (Dean, Faculty of Industrial Technology)
- Dr. R.L.W. Koggalage (Dean, Faculty of Engineering Technology)
- Dr. L.W.S. Kularatne (Dean, Faculty of Education)
- Ms. T.K. Malwatta (Dean, Faculty of Information and Technology)
- Dr. (Ms.) R.S. Palliyaguru (Head, Department of Quantity Surveying)
- Mr. Dilantha Rathnayake (Head, Department of Film and Television Production Technology)
- Dr. Erandya Jayawardena (Head, Department of Agriculture & Food Technology)
- Dr. Jayalal Wettasinghe (Actg Head, Department of Management Studies)
- Dr. M.P.K.C.Nandapala (Director AAQA)
- Mr. Tharinda Denagama (Head, Department of Construction Technology)
- Mr. Dilshan Ganegoda (Head, Department of Electrical & Electronics Technology)
- Ms. Gayanthi Alahapperuma (Head, Department of Mechanical & Manufacturing Technology)
- Ms. P. Madhavi Perera (Head, Department of Building Services Technology)
- Ms. L.H.D.L. Ranasuriya (Head, Department of Language Studies)
- Ms. Y.S. Manathunga (Head, Department of Education and Training)
- Mr. P.Uruthiran (Head, Department of Software Technology)
- Mr. R.M.C.A.B. Rathnayaka (Actg. Head, Department of Network Technology)
- Dr. D. D. D. Suraweera (Senior Lecturer, Faculty of Engineering Technology)
- Ms. J.K. Kanthi- Senior Lecturer, Department of Electrical & Electronics Technology
- Ms. J.A.M.B Karunaratna- Senior Lecturer, Department of Language Studies
- Ms. G.W.G Upamalika- Senior Assistant Librarian
- Mr. R.D.P.I.Priyadarshana -(System Administrator)
- Mr. M.G. Dharmasiri-(Assistant Registrar- Faculties/UoVT)
- Ms. W.P.G.C Pramila- (Assistant Registrar- Administration)
- Mr. R.D. Nishantha-Assistant Bursar
- Mr. G.W. Banduwardena- Assistant Bursar (Supplies)

University College Representatives (CEOs)

- University College Matara
- University College Ratmalana
- University College Kuliyaipitiya
- University College Batangala
- University College Anuradhapura
- University College Jaffna

8. SUB COMMITTEE MEMBERS

CMT coordinators

Ms. M. Thenabadu
Ms. Buddhima Karunarithna
Dr. Erandya Jayawardena
Dr. S.D.A Sanjeewa
Mr. Gayan Madushanka
Mr. R.W. Wedage

IT Support

Mr. R.D.P.I. Priyadarshana
Mr. L. A. U. P. Pushpakumara
Mr. R. C. G. Vidanapathirana
Mr. C. Weerasinghe
Student Volunteers
IEEE student chapter-UoVT

Media & Publication

Mr. Dilantha Rathnayake
Mr. Gayan Madushanka
Mr. Nalin Galkandanarachchi
Mr. T. C Jayamuthuge
Ms. Anusha Hettige
MS. Suranji Dharmapala
Ms. P.M. Hevavithana
Ms. D.G.K Swarnalatha
Mr. Waruna Jayasinghe

Other Committees to be appointed: Finance committee, Meals and Logistics, Registration Committee, Panel arrangement, Inauguration ceremony organizing committee, Decoration Committee, Secretarial Assistants, Editorial Assistants

5. EXHIBITION AND SPONSORING OPPORTUNITIES

Be a Sponsor for IRS2023-UoVT:

We invite you to participate as a sponsor for the prestigious International Research Symposium (IRS) 2023 - UoVT.

This annual event serves as a platform to showcase the latest findings and advancements in Technical Education and Training (TVET) and various scientific disciplines. By becoming a sponsor, you can demonstrate your organization's commitment to supporting education and driving innovation in the field.

As a sponsor, you will have the opportunity to engage with a diverse audience of researchers, educators, policymakers, and industry professionals. Your sponsorship will not only contribute to the success of the symposium but also enhance your brand visibility and reputation within the TVET and Scientific community.

As a sponsor, your support will contribute to the success of IRS2023-UoVT and reinforce your organization's commitment to shaping the future of technical education and training. Join us in promoting innovation, collaboration, and excellence in the field by becoming a valued sponsor of IRS2023-UoVT.

	Exhibiting Options: By exhibiting at IRS 2023, UoVT conference, exhibitors will have direct access to a focused group of key individuals who are actively working and researching in the TVET and Academia and Industry. The conference delegation comprises international participants, Industry personnel and academicians offering exhibitors the opportunity to showcase their products and services to potential new markets.			
	Benefits	Option 01 Rs: 25,000/=	Option 02 Rs: 50,000/=	Option 03 Rs. 100,000/=
1	An unmanned stand to present company Info	√		
2	Poster display near registration desk	√	√	√

3	logo on the conference website with a link to company site.	√	√	√
4	A manned stand where the company can showcase and demonstrate products		√	√
5	Leaflets can be placed inside the individual breakout rooms at the start of each conference day.		√	√
6	One representative is invited to attend the conference luncheon		√	√
7	A leaflet/brochure/promotional item can also be included in the participant packs.			√
8	Timetabled slot during the conference to give a presentation, which will take place during one of the refreshment breaks			√
9	One representative is invited to attend the conference dinner, providing further networking opportunities with the participants			√

Conference Sponsorship Options				
For companies wishing to target a specific day, materials, or social events during the conference, individual sponsorship provides an attractive option. This allows your organization to choose your desired level of involvement and exposure to attendees at the conference.				
Benefits		Silver Conference Sponsor Rs: 200,000/=	Gold Conference Sponsor: Rs. 300,000/=	Platinum Conference Sponsor: Rs. 500,000/=
		(04 packages)	(04 packages)	(04 packages)
Conference Passes	Offered complimentary	02 Passes	04 Passes	05 Passes

	attendee passes			
Web Site	Company will be featured on the conference web site	√	√	√
Signage	Appropriate company signage in the main conference rooms and the conference registration area	√	√	√
Conference Proceedings	Company logo will appear inside the conference proceedings.	√	√	√
Promotional Material	Company's name and logo will be featured in the proceedings, on the conference web site, on a display board in the conference registration area and in any other pre-conference promotional material	√	√	√
Literature and promotional material	Company's brochure and a gift/giveaway can be included in the attendee pack	√	√	√
Acknowledgements	Company will be thanked in the proceedings	√	√	√
Exhibition opportunity	As a Gold /Platinum conference sponsor you can have a stand in the registration area of the conference where you can exhibit or demonstrate products if appropriate.	-	√	√

Sponsorship of individual activities during the conference			
For companies wishing to target a specific day, materials, or social events during the conference, individual sponsorship provides an attractive option. This allows your organization to choose your desired level of involvement and exposure to attendees at the conference.			
	Conference Refreshments Rs. 50,000/=	Conference Luncheon Rs 150,000/=	Conference Dinner Rs. 200,000/=
Signage in lunch /refreshment area	√	√	√
Company Presentations		√	√
Distribute items of your company's literature and gifts/giveaways.	√	√	√
company's name and logo will appear on the conference website, in the conference proceedings and on a display board in the conference registration area.	√	√	√
Conference Attendee		√	√

Other Sponsorships

1. **Insertion of promotional materials into the delegate packs:** Brochures and/or flyers can be inserted into delegate packs for a fee of Rs. 5000/=
2. **Sponsorships** are available for conference booklet, abstract booklet publishing, awards for best papers