

PROGRAM SCHEDULE

International Conference (Hybrid Mode) on Engineering Education and Management (IC2EM'24), 23rd - 25th September 2024

VENUE: Palapye International Convention Centre (PICC), Majestic Five Hotel, Palapye, Botswana

Day 1: September 23, 2024

Time	Event
07:30–08:30	Conference and Workshop Registration
	Day 1 - Morning Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81803352760?pwd=WUbcBcgMzoVR6cOCP40OonjCseGjd8.1 Meeting ID: 818 0335 2760 Passcode: aByHD4U4 Time : 8.30 HRS - 12.45 HRS
08:30–09:00	Opening Ceremony (Master of Ceremonies) Dr.Bokani Mtengi & Dr.Tjiparuro Zeundjua
	National Anthem led by Mabogo School Choir
	Opening Prayer by Pastor Letlhogonolo Keakantse , Winners Chapel, Palapye
	SHE Moment by the SHE Officer Mr.Kesaobaka Peter
	Introduction of Guests
09:00–09:10	Welcome Address by Conference Chair- Prof.M.T.Oladiran (Chairperson, LOC) (Introduction to IC2EM'24)
09:10–09:20	Welcome Remarks by Prof. Otlogetswe Totolo (Vice Chancellor, BIUST)
09:20–09:30	Official Opening by Special Guest of Honour: Mrs Elizabeth B. Khumotaka , Permanent Secretary Ministry of Education and Skills Development
09:30–09:40	Cultural Entertainment by Mampo Cultural Group
09:40–09:50	Goodwill message by Prof.Funso Falade , President, African Engineering Education Association (AEEA)
09:50–10:00	Goodwill message by Engr.Donald Kandima , President Botswana Institution of Engineers (BIE)
10:00–10:10	Goodwill message by Dr.Fernando Siamisang , Director of Human Resource Development Planning, Human Resource Development Council (HRDC)
10:10–10:55	Guest Speaker (Keynote Speaker 1): Prof.Botsalano Mosimakoko CEO, Botswana Qualifications Authority (BQA). <i>“Enhancing Sustainable Quality Engineering Education for a Knowledge-based Society.”</i>
10:55–11:05	Vote of Thanks by Prof Elisha Shemang , DVC T&L, BIUST

Time	Event
11:05–11:25	TEA BREAK
11:25–12:05	Keynote Speaker 2 - Prof.Oludayo Olugbara , Durban University of Technology, Durban. <i>“Engineering Practice of Innovation Project Paradigm for Quality Education.”</i>
12:05–12:45	Keynote Speaker 3 -Prof.Chithirai Pon Selvan , Curtin University, Dubai - <i>“Engineering Education for Sustainable Development.”</i>
12.45–13.30	LUNCH
	<p>Day 1 - Afternoon Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81803352760?pwd=WUbcBcgMzoVR6cOCP40OonjCseGjd8.1 Meeting ID: 818 0335 2760 Passcode: aByHD4U4 Time : 13.30 HRS- 17.15 HRS</p>
	Theme: Enhancing Sustainable Quality Engineering Education for Knowledge-Based Society
13:30–15.00	WORKSHOP 1 - BQA: BUILDING A SEAMLESS EDUCATION AND TRAINING SYSTEM: The National Credit Qualifications Framework- Mr Ofentse Disang, Botswana Qualification Authority, Botswana.
15.00–15.15	BREAK
15.15–17.15	WORKSHOP 2 - BQA: BUILDING A SEAMLESS EDUCATION AND TRAINING SYSTEM: The Quality Assurance System in Botswana - Mr Ofentse Disang, Botswana Qualification Authority, Botswana.
17.30–19.30	WELCOME RECEPTION - Poolside, Majestic Five hosted by BDIH & ERB
	END OF DAY ONE

Day 2: September 24, 2024

Time	Event		
	<p align="center">Day 2 - Morning Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81803352760?pwd=WUbcBcgMzoVR6cOCP40OonjCseGjd8.1 Meeting ID: 818 0335 2760 Passcode: aByHD4U4 Time : 8.30 HRS- 11.15 HRS</p>		
08:00–08.30	<p align="center">Conference Committee Team Meeting and Networking</p>		
08:30–09.10	<p>Keynote Speaker 4 Prof.Gbolagade Adekanmbi, Botswana Open University, Botswana - <i>“Pushing the Open and Distance Learning Agenda in Engineering Education: A Preliminary Submission.”</i></p>		
09.10–11.00	<p>WORKSHOP 3 - ERB: <i>"Integrating Standards and International Collaboration to Elevate Engineering Education Quality"</i></p>		
11.00–11.15	<p align="center">TEA BREAK</p>		
11:15–12.15	<p align="center">Paper Presentation Session 1 (10 Papers)</p>		
	<p align="center">Session 1A (Conference Hall) Day 2 - Morning Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81944751247?pwd=POAf0FJRM9cmCrJhTzm0UQaaite3F2.1 Meeting ID: 819 4475 1247 Passcode: 41YM68dh Moderator: Dr.Oduetse Matsebe Student Volunteer: Mr.Gbenga Samson Omogbehin</p>	<p align="center">Session 1B Tshukudu Day 2 - Morning Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/85983680569?pwd=WDD7Ka4mNjYf2USqe94iMaAkn05RFh.1 Meeting ID: 859 8368 0569 Passcode: LrMC4BaM Moderator Prof.Abid Yahya Student Volunteer Ms.Barbara Nabifo</p>	<p align="center">Session 1C Nare Day 2 - Morning Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/89082903821?pwd=5VwUdqOkQU4YyVQRObQaazRavk akGm.1 Meeting ID: 890 8290 3821 Passcode: MGfv2V3J Moderator Prof.Subash Rao Student Volunteer Ms.Chizubelu Chinenye</p>
	<p align="center">LUNCH</p>		
12:30–13:30	<p align="center">LUNCH</p>		

Time	Event		
13:30–14.10	<p>Keynote Speaker 5 - Prof.Awelani V Mudau, Department of Science and Technology Education (DeSTE) College of Education, University of South Africa. “<i>Contextualising the Context of Advancing Engineering Education.</i>”</p> <p>Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81803352760?pwd=WUbcBcgMzoVR6cOCP40OonjCseGjd8.1 Meeting ID: 818 0335 2760 Passcode: aByHD4U4 Time : 13.30 HRS- 14.10 HRS</p>		
14:10–15.10	Paper Presentation Session 2 (11 Papers)		
	<p>Session 2A (Conference Hall) Day 2 - Afternoon Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81944751247?pwd=POAf0FJRM9cmCrJhTzm0UQaaite3F2.1 Meeting ID: 819 4475 1247 Passcode: 41YM68dh</p> <p>Moderator Dr.Ezekiel Kholoma Student Volunteer Ms.Belete Meseret</p>	<p>Session 2B Tshukudu Day 2 - Afternoon Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/85983680569?pwd=WDD7Ka4mNjYf2USqe94iMaAkn05RFh.1 Meeting ID: 859 8368 0569 Passcode: LrMC4BaM</p> <p>Moderator Dr.James Juana Student Volunteer Ms.Chizubelu Chinenye</p>	<p>Session 2C Nare Day 2 - Afternoon Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/89082903821?pwd=5VwUdqOkQU4YyVQRObQaazRavkGm.1 Meeting ID: 890 8290 3821 Passcode: MGfv2V3J</p> <p>Moderator Prof. Enoch Ogunmuyiwa Student Volunteer Mr.Gbenga Samson Omogbehin</p>
	BREAK		
15.10–15.25			

Time	Event	
	Paper Presentation Session 3 (6 Papers)	
15.25–16.30	FREE	<p style="text-align: center;">Session 3B Tshukudu Day 2 - Afternoon Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/85983680569?pwd=WDD7Ka4mNjYf2USqe94iMaAkn05RFh.1 Meeting ID: 859 8368 0569 Passcode: LrMC4BaM</p> <p>Moderator Dr.Babatunde Obadele Student Volunteer Ms.Belete Meseret</p>
		<p style="text-align: center;">Session 3C Nare Day 2 - Afternoon Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/89082903821?pwd=5VwUdqOkQU4YyVQRObQaazRavkAkGm.1 Meeting ID: 890 8290 3821 Passcode: MGfv2V3J</p> <p>Moderator Dr.Vivekanandhan Chinnasamy Student Volunteer Ms.Barbara Nabifo</p>
19:00–21:00	CONFERENCE DINNER: HOSTED By Human Resource Development Council of Botswana (HRDC)	
	END OF DAY TWO!	

Day 3: September 25, 2024

Time	Event
	<p style="text-align: center;">Day 3 - Morning Session Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81803352760?pwd=WUbcBcgMzoVR6cOCP40OonjCseGjd8.1 Meeting ID: 818 0335 2760 Passcode: aByHD4U4 Time : 8.30 HRS- 13.15 HRS</p>
08:00–08.30	Conference Committee Team Meeting and Networking

08:30–09:10	Keynote Speaker 6 - Prof. Ramodungoane Tabane , University of South Africa. <i>“Support for Neurodiversity Students in STEM Fields.”</i>
WORKSHOP 4 - Oracle Primavera for Engineering & Construction Project Educators by Oracle Academy	
09.10–09.15	Keynote welcome address: Danny Gooris, Senior Regional Director, Oracle Academy, EMEA
09.15–09.30	Primavera P6 Professional Project Management & Oracle Academy Teaching Resources: Lorana Juma- Program Manager, Oracle Academy.
09:30–10.30	Oracle CEGBU Smart Engineering & Construction Platforms & Oracle Primavera Demo: Christopher Kangethe, Construction & Engineering Automation Consultant
10.30 - 10.40	Q & A
10.40–10.55	TEA BREAK
10.55–12.15	Roundtable Discussion - The Future of Engineering Education for Sustainable Development Facilitator - Prof. Rodrigo Jamisola
12:15–13:15	Closing Ceremony - Dr B Nthubu
	-Recap of Conference Highlights: Dr. B. Obadele
	-Announcement of Best Paper Awards: Prof. S. Ravi
	-Traditional Dance / Entertainment
	-Invitation to IC2EM'26: Prof.MT Oladiran
	-Vote of Thanks: Prof J. Chuma Dean School of Electrical & Mechanical Engineering
	-Closing Remarks & Closing of the Conference by Prof.Ochieng Aoyi, Acting DVC (RDI), BIUST
-Closing Prayer by Pastor J. D. Khumo, Pentecostal Holiness Church, Palapye	
13.15–14.15	LUNCH, NETWORKING AND DEPARTURE

DETAILS OF PAPER PRESENTATIONS

SESSION	ROOMS & MEETING LINK	PAPER TITLE	PAPER TITLE	PAPER TITLE	PAPER TITLE
<p>SESSION 1A - 11.15HRS - 12.15 HRS</p> <p>Moderator Dr.Oduets e Matsebe</p> <p>Student Volunteer Mr.Gbenga Samson Omogbehin</p>	<p>Conference Hall</p> <p>Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81944751247?pwd=POA47FJRM9cmC4rJhTzm0UQa4aite3F2.1</p> <p>Meeting ID: 819 4475 1247</p> <p>Passcode: 41YM68dh</p>	<p>Paper ID 9 - Responsible Engineering Education Paradigm and Pedagogy through the Responsible Computing Window</p> <p>Sunday O Ojo, Oludayo O. Olugbara, Ugeshni Moodley and Lana-Ann Brady</p>	<p>Paper ID 7 - Problem and Project based learning: An advancement in Engineering Education in Africa Continent</p> <p>Gbenga S. Omogbehin, Meseret Belete and Blessing I. Omogbehin</p>	<p>Paper ID 30 - Embedding Entrepreneurship Training and Development in the Engineering Curriculum in three selected Universities in Botswana</p> <p>Joseph Ssegawa and Keneilwe Ntshwene</p>	<p>Paper ID 16 - Engineering Education and Entrepreneurship Education: Complementarities, Opportunities and Challenges</p> <p>James Sharka Juana, Mapeto Bomani, Gladys Gamariel and Bonolo Montshiwa</p>
<p>SESSION 1B - 11.15HRS - 12.15 HRS</p>	<p>Tshukudu</p> <p>Zoom Meeting Link https://biust-ac-</p>	<p>Paper ID 29 - Responsible Human-AI Collaboration in Education</p>	<p>Paper ID 23 - Access is Not All you Need: Adopting Large Language AI Models in Engineering Education Requires Pedagogical and Cultural Adaptation</p>	<p>Paper ID 25 - Space X Starlink: Transforming Botswana's Internet Landscape</p> <p>Dimane Mpoeleng</p>	

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Moderator Prof.Abid Yahya Student Volunteer Ms.Barbara Nabifo	bw.zoom.us/j/85983680569?pwd=WD7Ka4mNjYf2USqe94iMaAkn05RFh.1 Meeting ID: 859 8368 0569 Passcode: LrMC4BaM	Boineelo Nthubu	Adekemi Ayodele, Kayode Ayodele, Olusoji Ilori and Abiodun Ogunseye		
SESSION 1C - 11.15HRS - 12.15 HRS Moderator Prof.Subash Rao Student Volunteer Ms.Chizubelu Chinenye	Nare Zoom Meeting Link https://biust-ac-bw.zoom.us/j/89082903821?pwd=5VwUdqOkQU4YyVQRObQaaZRavkakGm.1 Meeting ID: 890 8290 3821	Paper ID 1 - Integrating Building Information Modeling (BIM) into Civil Engineering Education: A Framework for Sustainable Quality in a Knowledge-Based Society Keoagile Kerileng	Paper ID 2 - Issues to consider in incorporating artificial intelligence learning for geomatics education in Botswana Kealeboga Moreri, Mooketsi Segobyee and Lopang Maphale	Paper ID 24 - Challenges and Opportunities in Integrating Artificial Intelligence Education at the University of Botswana: Addressing Infrastructure and Educational Priorities for a Knowledge-Based Society. Kobamelo Mashaba, Robert Monageng, Monageng Kgwadi, Ronald Chikati and Pulafela Akofhang Majoo	

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	Passcode: MGfv2V3J				
SESSION 2A 14.10 HRS-15.10 HRS Moderator Dr.Ezekiel Kholoma Student Volunteer Ms.Belete Meseret	Conference Hall Zoom Meeting Link https://biust-ac-bw.zoom.us/j/81944751247?pwd=POA4f0FJRM9cmC4rJhTzm0UQa4aite3F2.1 Meeting ID: 819 4475 1247 Passcode: 41YM68dh	Paper ID 34 - Preparing engineers for Industry 5.0: a study of the impact of AI and ML on Engineering Education Oyarekhua Atemoagbo and Chinenye Chizubelu	Paper ID 15 - Opportunities and Challenges of Using the Engineering Education Degree Show to Enhance Problem-Based Learning Badziili Nthubu, Mosalagae Mosalagae, Keletso Orapeleng, Vivekanandhan Chinnasamy, Tunde Oladiran and Oduetse Matsebe	Paper ID 19 - Promotion and sustainability of quality assurance in engineering education through academic and professional accreditation Jacek Uziak, M. Tunde Oladiran, Giuditta Pezzotta and Edmund Lorencowicz	
SESSION 2B 14.10 HRS-15.10 HRS	Tshukudu Zoom Meeting Link	Paper ID 21 - The effectiveness of MATLAB sSoftware-supported	Paper ID 31 - Comparative analysis of Prototypes for Humanity against those of University of Botswana's	Paper ID 35 - Data Driven Feedback Model Framework Optimization of the Quality of Education Process	Paper ID 4 - A comparative analysis of innovation systems for design support in the uk and south african

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Moderator Dr.James Juana Student Volunteer Ms.Chizubelu Chinenye	https://biust-ac-bw.zoom.us/j/85983680569?pwd=WD D7Ka4mNjYf 2USqe94iMa Akn05RFh.1 Meeting ID: 859 8368 0569 Passcode: LrMC4BaM	mathematics Lessons in Botswana senior secondary schools-The case of Naledi Senior Secondary School Oteng Keganneng	Department of Industrial Design and Technology Polokano Sekonopo, Ritchie Moalosi and Paulson Letsholo	Julian Simela and Khaulani Fichani	national contexts: lessons for Botswana Gabriel Mothibedi
SESSION 2C 14.10 HRS- 15.10 HRS Moderator Prof. Enoch Ogunmuyiwa Student Volunteer Mr.Gbenga Samson	Nare Zoom Meeting Link https://biust-ac-bw.zoom.us/j/89082903821?pwd=5Vw UdqOkQU4Y yVQRObQaa zRavkakGm.1	Paper ID 37 - Engineering Pedagogy and Productivity Leveraging AI Cheddi Kiravu and Masodzi Mushininga	Paper ID 8 - Sustainable management model for process quality effectiveness measure Buliaminu Kareem, Anakobe-Jimoh Yakubu and Basil O. Akinnuli	Paper ID 3 - Priming Library and Information Service Delivery in Aid of Open and Distance Learners in the Digital Era Olugbade Oladokun and Peter Mazebe li Mothataesi Sebina	Paper ID 33 - Enhancing Sustainable Technology Transfer (T2) Centre Operations for Quality Transportation Engineering Education Adewole Simon Oladele

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Omogbehin	Meeting ID: 890 8290 3821 Passcode: MGfv2V3J				
SESSION 3B 15.25 HRS - 16.30 HRS Moderator Dr.Babatu nde Obadele Student Volunteer Ms.Belete Meseret	Tshukudu Zoom Meeting Link https://biust-ac-bw.zoom.us/j/85983680569?pwd=WD7Ka4mNjYf2USqe94iMaAkn05RFh.1 Meeting ID: 859 8368 0569 Passcode: LrMC4BaM	Paper ID 22 - Adoption and Utilization of Emerging Digital Technologies in Engineering Education: A Systematic Literature Review with a Focus on Botswana Tertiary Institutions Glory Ifiegbu and Godfrey Mlambo	Paper ID 28 - Boothroyd and Dewhurst Method as a Creative Tool to Support Design for Manufacturing and Assembly (DFMA) Students Engineering Design Teams Badziili Nthubu and Boineelo Reabetswe Nthubu	Paper ID 32- Botswana's approach to retooling of technicians for readiness to electric mobility manufacturing Yaone Rapitsenyane, Badzili Nthubu, Modisa Mosalaosi, Boitumile Matake and Patrick Sebudubudu	
SESSION 3C 15.25 HRS - 16.30 HRS Moderator	Nare Zoom Meeting Link https://biust-ac-bw.zoom.us/j/890829038	Paper ID 27 - A Material Mechanical Properties Simulator for Engineering and Material Science	Paper ID 26 - A User Interactive Procedural Application to Solve Numerical Methods for Engineering and Science Students	Paper ID 18 - Exploring Virtual Reality Application in Conceptual Design: A Pilot Experiment with Engineering Students	

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Dr.Vivekanandhan Chinnasamy Student Volunteer Ms.Barbara Nabifo	21?pwd=5VwUdqOkQU4YyVQRObQaaZravkakGm.1 Meeting ID: 890 8290 3821 Passcode: MGfv2V3J	Education and Research Theddeus Akano and Harrison Onovo	Theddeus Akano, Opatotun Iyanoluwa and Oboetswe Motsamai	Juliet Chiramba, Badziili Nthubu and Mosalagae Mosalagae	