



2<sup>ND</sup>  
**IMCEET**  
2024

**2<sup>nd</sup> International Multidisciplinary Conference on  
Emerging Trends in Engineering Technology-2024  
(2<sup>nd</sup> IMCEET-2024)  
6-8<sup>th</sup> March 2024**



2<sup>nd</sup> International Multidisciplinary Conference on  
Emerging Trends in Engineering Technology-2024  
(2<sup>nd</sup> IMCEET-2024)

## **ABSTRACT BOOK**

### **Organized by:**

The Benazir Bhutto Shaheed University of Technology and  
Skill Development, Khairpur Mirs

### **In collaboration with:**

MUET, SZAB Campus Khairpur Mirs

### **Sponsored by:**

Sindh Higher Education Commission, Government of Sindh

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Dr. Sadam Hussain Jakhrani  
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Dr. Mushtaque Ahmed Memon  
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Engr. Jabir Ali Keerio  
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## **ACKNOWLEDGEMENT**

The Organizing Committee of 2<sup>nd</sup> IMCEET-2024 acknowledges the collaboration of Mehran University of Engineering & Technology SZAB Campus Khairpur Mirs and support of Sindh Higher Education Commission (Sindh HEC) Government of Sindh, and other sponsors.

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Also acknowledge the efforts of the following individuals who were involved in composing, editing, and printing of the abstract book.

Prof. Dr. Manthar Ali Keerio  
Prof. Dr. Hyder Abbas Musavi  
Dr. Aftab Ahmed Soomro  
Dr. Sadam Hussain Jakhrani  
Dr. Mushtaq Ahmed Memon  
Dr. Asim Ali Abro



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**INTERNATIONAL KEYNOTE SPEAKERS**

<i>S. NO.</i>	<i>NAME</i>	<i>Designation</i>	<i>Title of Talk</i>	<i>Photo</i>
1	<b>Prof. Ir. Dr. Erwan bin Sulaiman</b> <a href="mailto:erwan@uthm.edu.my">erwan@uthm.edu.my</a>	Professor at faculty of Electrical and Electronic Engineering, University. University Tun Hussein Onn Malaysia (UTHM).	Innovation of Flux Switching Machine: Design Variation Review	
2	<b>Prof. Dr. Fayyaz Ali Memon</b> <a href="mailto:f.a.memon@exeter.ac.uk">f.a.memon@exeter.ac.uk</a>	Professor in Water Engineering University of Exeter, UK	Muti scale modelling of water-energy and food nexus	
3	<b>Dr. Arslan Ahmed</b> <a href="mailto:arslan.ahmed@namrc.co.uk">arslan.ahmed@namrc.co.uk</a> <a href="mailto:arslan.ahmed90@gmail.com">arslan.ahmed90@gmail.com</a>	Senior Research Engineer (Sensors & Instrumentation) Nuclear Advanced Manufacturing Research Center University of Sheffield, UK	Space Weather Effects on Satellite-based Navigation Systems	
4	<b>Dr. Sunny Katyara</b> <a href="mailto:sunny.katyara@imr.ie">sunny.katyara@imr.ie</a>	CTO & Co-Founder Indus Brain	The Rising Trend of Mass Customization and Personalization	
5	<b>Dr. Muhammad Waqas</b> <a href="mailto:soomro.waqas@yahoo.com">soomro.waqas@yahoo.com</a>	Postdoc researcher at the Yangtze River Delta Research Institute of University of Electronic Science & Technology of China (Huzhou)	Innovative Interlayer Designs for Improved Polysulfide Management and Self-Discharge Prevention in Li-S Batteries	
6	<b>Prof. Ir. Ts. Dr. Mohd Haziman Wan Ibrahim CENG</b> <a href="mailto:haziman@uthm.edu.my">haziman@uthm.edu.my</a>	Faculty of Civil Engineering & Built Environment, Universiti Tun Hussein Onn Malaysia	Properties of Brickwork Under Aggressive Environment	
7	<b>Dr. Sallahuddin Panhwar</b> <a href="mailto:panhwarsallahuddin@yahoo.com">panhwarsallahuddin@yahoo.com</a>	Postdoctoral Researcher at Gazi University Ankara, Turkey	Fabrication of an Impedimetric Biosensor Based on Co-polymer for the Detection of E. coli K12 in Water	



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**NATIONAL KEYNOTE SPEAKERS**

<i>S. NO.</i>	<i>Name</i>	<i>Designation</i>	<i>Title of Talk</i>	<i>Photo</i>
1	<b>Prof. Dr. Habib-ur-Rehman Mughal</b> <a href="mailto:mughalhabib@uet.edu.pk">mughalhabib@uet.edu.pk</a>	Professor, University of Engineering and Technology, Lahore	Development of 10 kW Francis Turbine Generator at KSK, UET, Lahore	
2	<b>Prof. Dr. Ali Asghar Memon</b> <a href="mailto:ali.asghar@faculty.muett.edu.pk">ali.asghar@faculty.muett.edu.pk</a>	Professor, Electrical Engineering at Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan	Smart Electrical Machine, Operating in All Modes	
3	<b>Prof. Dr.-Ing. Syed Mushahid Hussain Hashmi</b> <a href="mailto:camd@neduet.edu.pk">camd@neduet.edu.pk</a>	Professor / Chairman Department of Automotive & Marine Engineering, NEDUET	Emerging and Disruptive Trends in Automotive Technology	
4	<b>Engr. Dr. Munsif Ali Jatoi</b> <a href="mailto:jatoi.neuroscientist@gmail.com">jatoi.neuroscientist@gmail.com</a>	Associate Professor at Salim Habib University, Karachi, Sindh, Pakistan	Statistical Measures Based Understanding of Brain Networks	
5	<b>Prof. Dr. Abdul Qayoom Jakhrani</b> <a href="mailto:aqbaloch@quest.edu.pk">aqbaloch@quest.edu.pk</a> <a href="mailto:aqunimas@hotmail.com">aqunimas@hotmail.com</a>	Director, Postgraduate Studies, QUEST, Nawabshah	Water Resources Availability and Shortfall in Pakistan and its Possible Solutions	
6	<b>Dr. Ghulam Yasin Shaikh</b> <a href="mailto:yasinshaikh2001@yahoo.com">yasinshaikh2001@yahoo.com</a>	Professor, Department of Industrial Management, MUET Jamshoro	Designing of conceptual framework to support AMT system in manufacturing industries of Sindh, Pakistan	



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7	<b>Dr. Sajid Hussain Siyal</b> <a href="mailto:sajid.hussain@duet.edu.pk">sajid.hussain@duet.edu.pk</a>	Chairman, Department of Metallurgy and Materials Engineering, Dawood University of Engineering and Technology, Karachi	Design and Development of Organic-Inorganic Based Electrolyte by Using the UV Method for Energy Storage Devices (Lithium-Ion Batteries)	
8	<b>Dr. Tahir Ali Akbar</b> <a href="mailto:drtahir@cuiatd.edu.pk">drtahir@cuiatd.edu.pk</a>	Chairman Civil Engineering–All Campuses, COMSATS University Islamabad	GIS & Remote Sensing Applications in Civil Engineering	
9	<b>Dr. Imdadullah Thaheem</b> <a href="mailto:imdadthaheem@bbsutsd.edu.pk">imdadthaheem@bbsutsd.edu.pk</a>	Director, ORIC BBSUTSD, Khairpur Mirs	High active Spinel CoFe <sub>2</sub> O <sub>4</sub> - Er <sub>0.4</sub> Bi <sub>1.6</sub> O <sub>3</sub> composite based cathode Oxygen Electrode for Reversible Solid Oxide Cells	
10	<b>Dr. Samina Rajper</b> <a href="mailto:samina.rajper@salu.edu.pk">samina.rajper@salu.edu.pk</a>	Professor, Computer Science, Director Oric, Focal Person Pmydp – SALU	Transformative Potential of Digital Safe Spaces for Women's Empowerment	
11	<b>Dr. Afaque Manzoor Soomro</b> <a href="mailto:afaque.manzoor@iba-suk.edu.pk">afaque.manzoor@iba-suk.edu.pk</a>	Assistant Professor in the Electrical Engineering Department at Sukkur IBA University	Role of Novel Materials in The Design of Wearable Flexible Sensors	

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