

3 R D E D I T I O N O F
**INTERNATIONAL CONFERENCE ON
EMERGING TRENDS IN PHYSICS**
I C P - 2 0 2 6



UMT



Theme:

Smart Energy Solutions: Physics for a Sustainable Future

D A T E

June 04–06, 2026

Thursday – Saturday

V E N U E

Hakeem M. Saeed Seminar Hall

UMT, Johar Town, Lahore

O R G A N I Z E R

Department of Physics

School of Science, UMT

WHY ATTEND?

3 Day Conference	200+ Expected Attendees	20+ International Speakers	10+ Sessions & Workshops
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What You Will Gain

Attending ICP-2026 offers a unique and transformative opportunity to engage with leading physicists, engineers, and innovators from across Pakistan and around the world. Bringing together some of the brightest minds in contemporary science and technology, the conference serves as a dynamic platform where ideas are exchanged, collaborations are forged, and the boundaries of knowledge are pushed further.

Whether you are from academia, industry, or policy-making, ICP-2026 has something meaningful to offer. Researchers and scholars will find a stimulating environment to present cutting-edge findings, receive critical peer feedback, and explore new directions in their work. Industry professionals will gain direct exposure to the latest scientific breakthroughs with real-world applications, while policy makers will benefit from evidence-based insights that can inform smarter, more future-ready decisions.

The conference places particular emphasis on three defining themes of our time — advanced materials, clean energy technologies, and smart energy systems. These are not merely academic subjects; they are the foundations upon which sustainable economies and resilient societies will be built. By deepening expertise across these interconnected domains, ICP-2026 equips its participants with both the knowledge and the networks needed to drive meaningful impact.

Beyond the sessions and presentations, ICP-2026 fosters a culture of cross-disciplinary collaboration. Conversations sparked in hallways, workshops, and panel discussions often lead to partnerships that outlast the event itself — turning a four-day conference into a lasting catalyst for innovation and progress.

CONFERENCE SUB-THEMES

◆ Clean & Renewable Energy	◆ Smart Energy Systems
◆ Advanced Materials for Energy	◆ Low-Carbon & Circular Technologies
◆ Climate & Environmental Physics	◆ Emerging Physics for Energy

ALIGNED WITH SUSTAINABLE DEVELOPMENT GOALS

SDG 6 Clean Water & Sanitation	SDG 7 Affordable & Clean Energy	SDG 9 Industry & Innovation	SDG 13 Climate Action
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WHO SHOULD ATTEND?

<p>Physicists & Chemists <i>Researchers in fundamental & applied sciences</i></p>	<p>Materials Scientists <i>Experts in thin films, semiconductors, nanomaterials</i></p>	<p>Energy Engineers <i>Specialists in solar, wind, and smart grid systems</i></p>
<p>Academicians & Students <i>Faculty, postdocs, MS/PhD students</i></p>	<p>Industry Professionals <i>R&D leads from energy, manufacturing & tech</i></p>	<p>Policy Makers <i>Officials shaping energy & science policy</i></p>
<p>Biomedical Engineers <i>Physics at the interface of life sciences</i></p>	<p>Environmental Scientists <i>Climate modeling & environmental monitoring</i></p>	<p>Entrepreneurs & Innovators <i>Startups developing clean tech solutions</i></p>

PRESENTATION FORUM

01	<p>KEYNOTE FORUM / PLENARY SESSIONS Presentations of remarkable research value selected by the program committee. Delivered by globally recognized speakers, these talks are open to all registrants. Topics span clean energy, quantum materials, AI-driven research, plasma physics, and sustainable technologies.</p>
02	<p>DISTINGUISHED SPEAKERS' FORUM (ORAL ABSTRACT SESSIONS) Experts showcase comprehensive research findings in formal oral presentations covering both basic and advanced research aligned with the conference theme. This is the primary venue for full research contribution presentations.</p>
03	<p>YOUNG INVESTIGATORS FORUM An exclusive 10–15 minute oral presentation opportunity for MS/PhD students and early-career researchers to present their work and gain recognition from the global physics community. Prizes are awarded for outstanding presentations.</p>
04	<p>STUDENT FORUM / POSTER SESSION A platform for students and early-stage researchers to display their work via A0 portrait posters (3×4 ft). Particularly suited for those with emerging results or participants who prefer a conversational format over stage presentations.</p>
05	<p>MEET THE PROFESSOR @ NETWORKING SESSIONS Open Q&A and mentoring discussions between senior faculty and attendees. Ideal for graduate students and early-career researchers seeking guidance, collaboration opportunities, and professional development connections.</p>

UMT 3RD INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN PHYSICS ICP-2026

WELCOME MESSAGES

PATRON-IN-CHIEF

Prof. Dr. Asif Raza S.I. H.I.

“On behalf of the University of Management and Technology, it is my distinct honor to welcome all delegates, researchers, and students to ICP-2026 – the 3rd International Conference on Emerging Trends in Physics. This conference reflects UMT's enduring commitment to advancing scientific knowledge and nurturing a culture of research that is both globally competitive and locally meaningful. The theme, 'Smart Energy Solutions: Physics for a Sustainable Future,' speaks directly to the pressing challenges of our time, and I am confident that the intellectual exchange at this gathering will contribute meaningfully toward innovative solutions. I commend the organizing committee for their dedication and extend my warmest wishes to every participant for a stimulating and rewarding conference experience.”

CHIEF ORGANIZER

Prof. Dr. Sammia Shahid

“It is with great pleasure that I welcome you to ICP-2026 on behalf of the organizing committee. This conference has grown steadily into a premier platform for physicists and allied scientists across the region, and its third edition is a proud milestone for the Department of Physics and the School of Science at UMT. Bringing together researchers from diverse sub-disciplines – from condensed matter and nanotechnology to renewable energy materials and computational physics – ICP-2026 promises rich interdisciplinary dialogue and meaningful collaboration. I am grateful to our Rector for his visionary support, to the entire organizing team for their tireless effort, and above all, to every participant whose research and presence make this conference what it is. Welcome, and may this be an inspiring experience for all.”

DEAN, SCHOOL OF SCIENCE

Prof. Dr. Muhammad Imran Jamil

“A very warm welcome to all participants of ICP-2026 from the School of Science at UMT. The Department of Physics has once again demonstrated exceptional initiative in organizing this international conference, and as Dean, I could not be more proud of their achievement. Research in physics underpins virtually every domain of modern technology, and events like ICP-2026 are essential for keeping our academic community connected to the forefront of global scientific progress. I am particularly heartened by the strong representation of young researchers at this conference – it is in nurturing their curiosity and ambition that the future of science in Pakistan truly lies. I wish all delegates productive sessions, fruitful exchanges, and a most enjoyable stay.”

ASSOCIATE DEAN, SCHOOL OF SCIENCE

Prof. Dr. Muhammad Javaid

“It gives me immense pleasure to welcome each of you to ICP-2026. The School of Science at UMT takes great pride in supporting this conference, which has steadily established itself as a respected forum for scientific exchange in the region. Physics today is a discipline of extraordinary breadth – and conferences such as this are vital in bringing together specialists across its many frontiers to foster the cross-pollination of ideas that drives real innovation. I am especially encouraged to see early-career researchers stepping forward with confidence to share their findings before an international audience; this is precisely the kind of environment in which the next generation of scientists finds its voice. I hope every participant leaves ICP-2026 enriched, inspired, and with new connections that will last well beyond these three days.”

CONFERENCE CHAIR

Dr. Tanvir Hussain

“On behalf of the Department of Physics and the entire organizing team, it is my Honour and joy to welcome you to the 3rd International Conference on Emerging Trends in Physics – ICP-2026. This edition features a carefully curated scientific programme of oral presentations, poster sessions, and invited talks spanning condensed matter physics, photonics, nanotechnology, energy materials, and applied physics, all reviewed rigorously to ensure the highest quality of scholarship. Building on the success of our previous editions, ICP-2026 represents the Department's continued ambition to be a hub of scientific excellence and a bridge between Pakistani academia and the global physics community. I am deeply grateful to the organizing committee, reviewers, sponsors, and every participant whose

contribution has made this conference possible, and I sincerely wish you three days of discovery, dialogue, and inspiration.”

CONFERENCE SECRETARY

Prof. Dr. Zaheer Hussain Shah

“It is a privilege to welcome you to ICP-2026 as Conference Secretary. The journey from the initial call for papers to the final programme schedule has been one of great dedication by the entire organizing team, and seeing so many researchers gathered here today makes every effort worthwhile. This conference is a testament to the vitality of the physics community in Pakistan and to the growing ambition of our researchers to engage with global scientific challenges. I am sincerely grateful to every author who entrusted us with their work, every reviewer who gave generously of their expertise, and every volunteer who worked behind the scenes. The secretariat remains at your service throughout the conference, and I hope your experience at ICP-2026 is seamless, enriching, and truly memorable.”



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Smart Energy Solutions: Physics for a Sustainable Future

UMT MULTIDISCIPLINARY SCIENCE CONGRESS 2026
STRENGTHENING INTERDISCIPLINARY RESEARCH TO DRIVE SCIENTIFIC EXCELLENCE

June 4-6 (Thursday-Saturday), 2026



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TECHNICAL SESSIONS

(Day – 1)



Day 1 (June, 04 2026)

INAUGURAL SESSION

(Venue: Hakim Saeed Hall)

Time (GMT+5)	
08:30-09:30 am	Registration
09:30-09:40 am	Recitation from Holy Quran & National Anthem
09:40-09:45 am	Dr. Muhammad Imran Jamil (Dean, School of Science, UMT)
09:45-09:50 am	Dr. Sammia Shahid (Vice Provost Research, UMT)
09:50-09:55 am	Dr. Jesus Manuel Anzano Lacarte (University of Zaragoza, Spain)
09:55-10:00 am	Dr. Rui Diogo (Howard University, USA)
10:00-10:20 am	<i>Guest of Honor</i> - Dr. Talat Naseer Pasha (Director General - Punjab Agriculture, Food and Drug Authority)
10:20-10:30 am	<i>Chief Guest</i> – Dr. Kauser Abdullah Malik (President – Pakistan Academy of Sciences)
10:30-10:40 am	Dr. Asif Raza (Rector, UMT)
10:40-10:50 am	Souvenir Distribution
10:50-11:00 am	Group Photo
11:00-11:15 am	REFRESHMENT


Day 1 (June, 4 2026)
KEYNOTE SESSION-1A

(Venue: 1C-15)

Chair: Prof. Dr. M. Saeed (UMT Lahore)
Co-Chair: Dr. Qayyum Zafar

Time (GMT+5)	Title	Speaker
11:00-11:15 am	Physics-Aware AI for Hybrid Renewable Smart Grids	Dr. Antonis Papadakis (KYAMOS LIMITED & Frederick University, Cyprus)
11:15-11:45 am	On Ideal Lacunary Statistical Convergence of Order α With Respect to Semi-Normed Space, Mode: Online	Prof. Dr. Ekrem Savas (Usak University, Usak, Turkey)
11:45-12:15 pm	From Laser Ablation to Smart Energy Devices: Modelling, Spectroscopy, Scalable Materials and Printed Electronics	Dr. Muhammad Hassan Sayyad (GIKI, PAK)
12:15-12:45 pm	Generalized Iterated Function Systems and Common Attractors of Generalized Hutchinson Operators, Mode: Onsite	Prof. Dr. Talat Nazir (University of South Africa)
12:45-1:15 pm	Analysis and Applications of Conformable, Fractional, and Fractal Derivatives (online)	Dr. Ali Akgül (Siirt University, Siirt, Turkey)
1:15 pm	Lunch Break	



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Day 1 (June, 4 2026)
TECHNICAL SESSION-1B

(Venue: 1N-11)

Chair: Dr. Bilal Ramzan
Co-Chair: Dr. Shamsa Kanwal

Time (GMT+5)	Title	Speaker
11:15-11:25 am	Temperature-Dependent CVD Selenization of MoO ₃ Thin Films for Enhanced Photoelectrochemical Hydrogen Generation	Sana Zulfiqar (UMT)
11:25-11:35 am	Band Edge Engineering of WO ₃ via Hf Doping toward Enhanced Photocatalytic Water Splitting: A First-Principles Study	Muhammad Sajjad (UMT)
11:35-11:45 am	Hydrothermally Engineered Co ₂ FeSn Heusler Alloys: Structure and Magnetism	Ms. Shabana Aziz (UMT)
11:45-11:55 am	First-Principles Investigation of Spintronic Properties in Full Heusler Compounds	Dr. Shamsa Kanwal (UMT)
11:55-12:05 pm	Surface Modification for Bioimplants: The Role of Laser Surface Engineering	Hira Yaseen (UMT)
12:05-12:15 pm	Synthesis of CeFeO ₃ /rGO nanocomposite for enhanced oxygen evolution reaction (OER) performance	Sidra Ashraf (UMT)
12:15-12:25 pm	Modification of plasma evolution dynamics in LIBS via spark discharge assistance for sub-ppm detection of heavy metals in aluminum alloys	Faisal Waheed (UAJK)
12:25-12:35 pm	Atmospheric-PLD of plasmonic dry aerosols on textured hydrophilic surfaces for SERS	Natasha Nazir (UAJK)
12:35-12:45 pm	Theoretical investigation of cosmic ray modified shocks in Fermi Bubbles	Saima Mushtaq (GCUF)
	Investigating Temperature Effects on the Performance of Perovskite Based Solar Cells via Numeric Simulation	Qurban Ali (UMT)
12:45-1:00 pm	Scattering of $\eta_b(1S)$ mesons within a lattice-QCD-inspired multiquark model	Ahmed Awan (UMT)
1:00-1:15 pm	Cosmic Ray Modified Flows with Effective Wave Damping.	Inam Ullah Zaheer (UMT)
1:15 pm	Lunch Break	



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Day 1 (June, 4 2026)
TECHNICAL SESSION-2A

(Venue: 1C-15)

Session Chair: Prof. Dr. Jamil Alvi
Co-Chair: Dr. Qayyum Zafar

Time (GMT+5)	Title	Speaker
3:00-3:30 pm		Dr. Karwan Wasman Qadir (IR)
3:30-4:00 pm	Synergistically Engineered NiCo ₂ S ₄ /MXene/rGO Nanohybrids for Next-Generation High-Performance Supercapacitors	Dr. Mubashir (IU, PAK)
4:00-4:20 pm	Transfer Matrix Method as a Tool for Probing Optical Responses of a Thin Film: A Theoretical Approach	Dr. Muhammad Amin (UOL, PAK)
4:20-4:40 pm	Studying Supernova Shocks in Hydrodynamical Perspective	Dr. Bilal Ramzan (AUF)
4:40-5:00 pm		Dr. Imran Sadiq (CSSP)
5:00-5:15 pm	Ground-State Computation of Quantum Lattice Models via VQE	Muhammad Saleh (Yamen)



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Day 1 (June, 4 2026)
TECHNICAL SESSION-2B

(Venue: 1N-11)

Session Chair: Dr. Mubashir
Co-Chair: Dr. Sidra Khalid

Time (GMT+5)	Title	Speaker
3:00-3:20 pm	Surface Modification of Materials Using Ion Beam	Dr. Naveed Afzal (CASP, GCUL)
3:20-3:35 pm	Analysis of Hole Acoustic Instability with Radiation in Quantum Semiconductor Plasmas	Syad Ali Raza (COMSATS, LHR)
3:35-3:50 pm	Investigation of effects of external electric field on plasma mediated ablation induced surface modifications of metals	Dr. Mehreen Akram (GCUL)
3:50-4:10 pm	Influence of Silicon Dioxide Polar Dielectric Layers on the Mid-Infrared Absorption Spectrum of Metal-Insulator-Metal Metasurfaces (online)	Dr. Imtiaz Ahmad (USA)
4:10-4:25 pm	An R-type hexagonal ferrite nanoparticles-based electrochemical sensor for Levofloxacin detection in pharmaceutical and clinical specimens (online)	Dr. Sajjad Hussain (BNBWU)
4:25-4:40 pm	Beyond the Horizon: Rare Decays as a Window to New Physics	Dr Azeem Mir (UMT)
4:40-5:00 pm	Three Wave Instability in Semiconductor Plasma Waveguides	Dr. Jamil Alvi (COMSATS)



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TECHNICAL SESSIONS

(Day – 2)


Day 2 (June, 5 2026)
TECHNICAL SESSION-3A

(Venue: Hakeem Saeed Hall)

Session Chair: Dr. Naveed Afzal
Co-Chair: Dr. Qayyum Zafar

Time (GMT+5)	Title	Speaker
10:00-10:20 am	Electron counter streaming effects on the kinetic Alfvén waves in the solar coronal plasma	Dr. Zafar Iqbal (GCUL)
10:20-10:40 am	Development of All-Inorganic P-N & P-i-N Heterojunctions for Optoelectronic and Photovoltaic Device Applications	Kashif Javaid (GCUF)
10:40-11:00 am	Impact of Interfacial Engineering on the Performance of Perovskite Solar Cells	Dr. Fakhara Aziz
11:00-11:20 am	Enhanced UV photodetection with Au-doped WO ₃ thin films: Responsivity, detectivity, and self-powered characteristics	Dr. Nasar Ahmed (UAJK)
11:20-11:40 am	Synthesis and characterization of cobalt iron oxide (CoFe ₂ O ₄) and zinc tin oxide (ZnSnO ₃) for solar cell applications	Dr. Hassan Ali (UON)
11:40-12:00 pm	Role of Self-Gravity in Cosmic-Ray–Alfvén Wave Coupling within Molecular Clouds	Ayesha Mubashira (GCUF)
12:00-12:20 pm	Solar-Simulated Photocatalysis with MoS ₂ @WO ₃ Heterostructures: An Efficient Strategy for RhB Degradation”	Dr. Wajeeha (UoL) room change
12:20-12:40 pm	DC source of High-Power RF source for High Energy Linear Accelerator at IHEP (Mode: Online)	Dr. Munawar Iqbal (IHEP, CN) Room Chnage
12:40-1:00 pm	First-principles investigation of the electronic and optical properties of Sc ₄ C ₃ MXene for optoelectronic applications	Dr. Robina Ashraf (GCWU SKT)
1:00 2:30 pm	Lunch Break	


Day 2 (June, 5 2026)
TECHNICAL SESSION-3B

(Venue:1N-11)

Session Chair: Dr. Muhammad Amin
Co-Chair: Dr. Qurat Ul Ain

Time (GMT+5)	Title	Speaker
10:00-10:10 am	First-Principles Prediction of the Optoelectronic, Mechanical, Thermodynamic and Hydrogen Storage Attributes of Double Perovskite Rb_2NaXH_6 ($X = Al, In$) Hydrides	Hudabia Murtaza (UMT)
10:10-10:20 am	Synthesis of $MgFe_2O_4/CNT$ -Based Composite as a High-Performance Electrode Material for Supercapacitor Applications	Namrah Nisar (UMT)
10:20-10:30 am	Enhanced electrochemical performance of $MnSr_2O_4/CNT$ nanocomposite for high-efficiency supercapacitor applications	Marryam (UMT)
10:30-10:45 am	Structural and Photoluminescent Properties of $CuAlSe_2/ZnS/ZnSe$ Multicore Shell Quantum Dots	Laiba Sarwar (LCWU)
10:45-11:00 am	Rain and snow triggered earthquake	Fatima Ali (UMT)
11:00-11:15 am	Photoelectrochemical Water Splitting Using Nitrogen-Doped Zinc Oxide Thin-Film Photocatalysts	Zunaira Naseem (UMT)
11:15-11:30 am	Structural and Dielectric Properties of Vanadium Doped Zinc Oxide Thin Films	Laiba Kamran (UMT)
11:30-11:45 am	Cosmic-ray dominated Astrophysical jets in Supersonic Alfvénic conditions	Nasrullah Ali Qazi (UMT)
11:45-12:00 pm	Design and Simulation of a Contactless Electromagnetic-Based Sleep Monitoring System	Hafiz Aleem Ullah (UMT)
12:00-12:15 pm	Solution of Time Dependent Schrodinger Equation by Finite Difference Method	Tayyaba Tahira (UMT)
12:15-12:30 pm	Parameter Space Exploration of a Four-Fluid Cosmic-Ray-Driven Galactic Outflow Model	Ahmad Raza (UMT)
12:30-12:45 pm	Continuous solutions of cosmic rays and waves in astrophysical environment	Kinza Irshad
12:45-1:00 pm	Bandgap Dependent Bifacial Gain and Thermal Resilience in Perovskite/Silicon Tandems	Zohair Abbas (Italy)
1:00 2:30 pm	Lunch Break	



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<p>2:30-3:15 pm</p>	<p>POSTER SESSION (Slot # 80 to onwards)</p>
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Day 2 (June, 5 2026)
TECHNICAL SESSION-4A

(Venue: Hakeem Saeed Hall)

Session Chair: Dr. Nasar Ahmed
Co-Chair: Dr. Saira Shaheen

Time (GMT+5)	Title	Speaker
3:15-3:30 pm	Lignocellulosic Carbon Architectures and Hybrid Interfacial Engineering for High-Energy All-Solid-State Supercapacitors (Mode: Online)	Dr. Syed Shaheen Shah (UoT, KSA)
3:30-3:45 pm	A Sustainable ZnO/MXene Nanocomposite Derived from Turmeric Extract for High-Sensitivity Electrochemical Ethanol Sensors	Saleh Asif
3:45-4:00 pm	Solitary Waves in Current Driven Sheard Flow in Dusty Magneto plasma	M. Shoaib (UMT)
4:00-4:15 pm	Smart energy solution: Physics For A Sustainable Future	Alveena Atta (GCWG)
4:15-5:30 pm	CONCLUDING SESSION	


TECHNICAL SESSION-4B

(Venue: 1N-11)

Session Chair: Dr. Robina Ashraf
Co-Chair: Dr. Muhammad Tahir

Time (GMT+5)	Title	Speaker
3:10-3:30 pm	Hydrothermal Synthesis and Characterization of ZnO–MnO ₂ Nanocomposite for Photocatalytic Applications	Dr. Saira Shaheen (UMT)
3:30-3:45 pm	Effect of ionized gas concentration on the energy of laser Wakefield accelerated electrons beam	Dr. Qurat ul Ain (UMT)
3:45-3:55 pm	Comparative Dosimetric Analysis of Automatic and Manual Optimization in Eclipse-Based Stereotactic Radiosurgery	Syeda Amna Afzal (UMT)
3:55-4:05 pm	Comparative Evaluation of Machine Performance Check and Daily Beam Quality Assurance Tools for High Dose-Rate Flattening Filter-Free Beams	Jaweria Oshaz (UMT)
4:05-4:15 pm	Impact of B'-site cation substitution on the mechanical, structural, optoelectronic and thermoelectric properties of Sr ₂ NbXO ₆ (X = Sb, Bi) for green energy technologies	Amna Khan (UMT)

4:15-4:30	Terrain-Aware Wind-Farm Optimisation Using AI	Dr. Antonis Papadakis (KYAMOS LIMITED & Frederick University, Cyprus)
4:30 -5:30 pm	CONCLUDING SESSION	



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4:15-5:15 pm	CONCLUDING SESSION	
4:15-4:25 pm	Congress Participants' Comments	
4:25-4:35 pm	Vote of Thanks Dr. Muhammad Imran Jamil (Dean, School of Science, UMT)	
4:35-4:45 pm	Dr. Sammia Shahid (Vice Provost Research, UMT)	
4:45-4:55 pm	Guest of Honour – Mr. Umer Saleem (Convener, Lahore Chamber of Commerce and Industry Standing Committee on Industry- Academia Linkage)	
4:55-5:05 pm	DrChief Guest - Dr. Aqif Anwar Chaudhry (Vice Chancellor, University of Education, Lahore). Asif Raza (Rector, UMT)	
5:05-5:15 pm	Dr. Asif Raza (Rector, UMT)	
5:15-5:25 pm	Souvenirs & Certificates Distribution	
5:25-5:30 pm	Group Photo	
5:30 pm	REFRESHMENT	