

Zetech University Research & Innovation Week 2026



Event Programme



**ZETECH
UNIVERSITY**
Inventing the future

DAY 1

9th June 2026 | 8AM – 4PM

Opening Ceremony
Master of Ceremony: Mr. John Mwai
Rapporteur: Dr. Samuel Macharia

07:30 AM - 08:30 AM	Registration		
08:00 AM - 08:40 AM	Breakfast		
08:40 AM - 09:30 AM	Visit to the exhibitions		
09:30 AM - 09:35 AM	National Anthem, East African Community Anthem, Zetech Anthem		
09:35 AM - 09:40 AM	Opening Prayer by Rev. Dr Eric Irungu , Zetech University Chaplain		
09:45 AM - 09:50 AM	Entertainment: Performance by the University Drama Club		
09:55 AM - 10:00 AM	Welcome Note, and Introduction of Guests by Prof Alice Njuguna , Deputy Vice Chancellor, Academics, Research & Student Affairs, Zetech University		
10:00 AM - 10:05 AM	Research & Innovation Week Concept Overview by Esther Mwangi , Director, Research & Innovation, Zetech University		
10:05 AM - 10:35 AM	Opening Remarks by: Prof. Njenga Munene J. , Vice Chancellor, Zetech University Prof. Harriet Kidombo , Chair of Council, Zetech University Prof. Susan Alfano Nkinyangi , Chancellor, Zetech University		
10:35 AM - 10:50 AM	Special Guest Address Monica Blagescu , Head of Programmes at the British Council Kenya		
10:50 AM - 11:25 AM	Keynote Address by Prof. Shaukat Abdulrazak , PS State Department for Science, Research, and Innovation		
11:25 PM - 12:15 PM	Fire side Chat	Moderator	Prof. Alice Njuguna , Deputy Vice Chancellor, Academics, Research & Student Affairs, Zetech University
		Rapporteur	Dr. Joy Kibor , Lecturer, Zetech University
		Panelists	Prof. Shaukat Abdulrazak , PS State Department for Science, Research, and Innovation Monica Blagescu , Head of Programmes at the British Council Kenya Prof. Njenga Munene , Vice Chancellor, Zetech University Dr. Tonny Omwansa , Chief Executive Officer, Kenya National Innovation Agency (KeNIA) Dr. David Ngigi , Director General, National Commission for Science, Technology and Innovation
12:15 PM - 12:25 PM	Group Photo Session		
12:25 PM- 12:45 PM	Tree Planting		
12:45 PM-02:00 PM	Lunch Break		



ZETECH UNIVERSITY
 Inventing the future



+254 719 034 500



+254 706 622 557



courses@zetech.ac.ke



www.zetech.ac.ke

DAY 1

9th June 2026 | 8AM – 4PM

02:00 PM-02:15 PM		Session Chair	Prof. Alice Njuguna , Deputy Vice Chancellor, Academics, Research & Student Affairs, Zetech University
		Keynote Speaker	Caroline Akiwumi , CEO and Founder, The Avocado Foundation
02:15 PM - 03:00 PM	Panel Session 1: Harnessing Emerging Technologies for Socio-Economic Transformation and Global Competitiveness	Moderator	Dr. Benjamin Muindi , Dean School of ICT, Media and Engineering, Zetech University
		Rapporteur	Emma Wamaitha , Zetech University
		Panelists	Amos Kirongo , Coordinator Innovation and Entrepreneurship, Meru University Winnie Karanu , Microsoft Programme Lead Andrew Masila , Safaricom Leo Xi , Huawei Kenya Brian Githaiga , AI Innovator, Zetech University Josephine Ndambuki , Chief Manager, Business Development and Innovation, Konza Technopolis Development Authority
02:15 PM - 03:00 PM	Panel Session 2: From Ideas to Impact: Navigating Intellectual Property in the Innovation Economy	Moderator	Dr. Eric Kibet , Dean, Zetech Law School
		Rapporteur	Dr. Kenneth Kodiyo , Lecturer, Zetech Law school
		Panelists	Saksham Gogia , Director, Lexworth Technologies Inc. Dan Judge , IP Attorney, JudRia IP Simon Njuguna , IP officer, JKUAT Sammy Ziro Lewa , Senior Patent Examiner, KIPi Isaac Muendo , Innovator, Zetech University
03:30 PM - 03:40 PM	Group Photo Session		
3:40 PM	Visit to Exhibitions and Networking		

Opening Ceremony
Master of Ceremony: Mr. John Mwai
Rapporteur: Dr. Samuel Macharia



ZETECH UNIVERSITY
 Inventing the future

DAY 2

10th June 2026 | 8AM – 4PM

Day 2
10th June 2026

Master of Ceremony: Roy Khaemba

08:00 AM - 08:30 AM	Registration	
08:30 AM - 08:35 AM	Opening Prayers by Hellen Nyambura	
08:35 AM - 08:40 AM	Welcome Remarks	Prof Alice Njuguna , Deputy Vice Chancellor, Academics, Research & Student Affairs
08:40 AM - 08:45 AM	Conference Opening	Prof. Samuel Mwalili , Director, Centre for Data Analytics and Modelling
08:45 AM - 9:30 AM	Panel Session 3: Strengthening Industry–Academia Collaboration for Startup Growth and Technology Commercialisation	Session Chair Prof. Peter Kibas , Dean, School of Business and Economics, Zetech University
		Keynote Speaker Earnest Chitechi , Kenya Climate Innovation Centre (KCIC)
		Moderator Dr. Kiogora Thiga , Head of Department, Business and Economics, Zetech University
		Rapporteur Kuria Kanyingi , Tutorial Fellow, Zetech University
		Panelists Eng. Mike Mungi , CEO, I choose Life Mercy Kimalek , CEO, ASSEK Dr. Edgar Pelaez , Lakeland University, Japan Dr. Henry Yatich , Mount Kenya University
9:30 AM - 10:10 AM	Panel Session 4: Transforming Health Outcomes Through Collaborative Science and Innovation Ecosystems	Keynote Speaker Dr. Sindi Kiriimi , Program Manager, APHRC
		Moderator Dr. Lydia Mwanzia , Dean, School of Health Sciences, Zetech University
		Rapporteur Mark Oduor , Tutorial Fellow, Zetech University
		Panelists Prof. Samuel Mwalili , Director, Africa Centre for Data Analytics and Modelling Dr. Osoro Ogutu , University of Cincinnati Edwin Simiyu , Kenya Nurse Consultants Prof. Violet Naanyu , Social Scientist and WHO Rep of bioethics in healthcare
08:30 AM - 10:10 AM	Side event	AFRICA RUBY COMMUNITY WORKSHOP
10:10 AM - 10:30 AM	Tea Break	



ZETECH UNIVERSITY
Inventing the future



+254 719 034 500



+254 706 622 557



courses@zetech.ac.ke



www.zetech.ac.ke

DAY 2

10th June 2026 | 8AM – 4PM

	BREAKAOUT A: AUDITORIUM Thematic Area: <i>Entrepreneurship, Startups and Commercialisation</i> Session Chair: Dr. Catherine Chege Rapporteur: Kuria Kanyingi	BREAKOUT ROOM B: LH005 Thematic Area: <i>Health, Life Sciences and Social Innovation & Students, Youth Innovation & Talent Development</i> Session Chair: Prof. Mwalili Rapporteur: Esther Marvis	BREAKOUT ROOM C: LH006 Thematic Area: <i>Innovation, Technology, and Emerging Frontiers</i> Session Chair: Dr. Christine Gitonga Rapporteur: Gladys Wagura
10:30 AM – 10:45 AM	Influence of Marketing Agility on Non-Financial Performance of Star-Rated Hotels In Mombasa County, Kenya <i>Onditi E., Kamoni P.</i>	Strategic Integration of Predictive Analytics and Loan Portfolio Quality In Deposit-Taking Saccos in Kenya <i>Kandie A.</i>	Adoption, User Engagement, and Behavioural Patterns in The Use of the E-Citizen Platform in Kenya <i>Maina P. K, Wasike J. M, Mwangi E.</i>
10:45 AM – 11:00 AM	Effect of Sustainable Tourism Practices on The Livelihoods of the Maasai Community in Amboseli National Park <i>Otieno C.</i>	Social Innovative Construction of a Zimbabwean Identity in Online Media <i>Nyasha M.</i>	Data-Driven Determinants of Airport Infrastructure Modernisation in Kenya. Case Study of Jomo Kenyatta International Airport <i>Adasa M.</i>
11:00 AM – 11:15 AM	Perceived Trail Accessibility and Competitive Advantage in Kenya's Adventure Tourism Sector <i>Gatonye J., Chege C. N. & Macharia S.</i>	Feasibility and Acceptability of Self-Sampling for Human Papillomavirus (HPV) Screening in a Rural Community In Western Kenya <i>Mwanzia L, Biederman E., Burke C. D., Champion V. L</i>	Assessment of Cassava Production and Utilisation of a Climate Smart Agriculture in Murangá County <i>Kamau A.</i>
11:15 AM - 11:25 AM	Strategic Influence of E-Supplier Management on Tendering Dynamics in Kenya's Public Universities <i>Wako A., Omurwa C. M., Macharia A. N.</i>	Institutionalizing Work–Life Balance Practices for Organisational Resilience in Resource-Constrained Healthcare Systems <i>Ngode J.</i>	Evaluating the Effectiveness of Cybersecurity Frameworks in Mitigating Phishing Threats in Digital Microfinance Institutions <i>Mathenge R., Mukunga C., Mwangi E.</i>
11:25 AM – 11:55 PM	Q & A		
11:55 PM – 12:05 PM	Strategic Adoption of AI-Enabled Infrastructure for Sustainable Competitive Advantage in Kenya's Tourism and Recreation Sector <i>Gatonye J.</i>	Beyond Training: Leveraging Recognition Platforms to Accelerate Youth Talent Development, The Pride of Kenya Awards Experience <i>Oguta S.</i>	Descriptive Geospatial Analysis of HIV Incidence and Hotspots in Kenya: Insights from Facility Data <i>Musyoka E., Mwalili S., Kirui E., Cuadros D.</i>
12:05 PM - 12:15 PM	<i>Economic Impacts of Raising Park entry fees by Narak county government to the stakeholders: A case study of Masai mara game reserve.</i> <i>Otieno C.</i>	Social Media and Academic Performance in History: A Case Study of Masinga Sub-County, Kenya <i>Ngundi M.</i>	Hybrid Ensemble Learning Framework for Early Prediction of Learner Attrition in Online Education <i>Munga S, Mwikya J, Mageto V.</i>



ZETECH
UNIVERSITY
Inventing the future



+254 719 034 500



+254 706 622 557



courses@zetech.ac.ke



www.zetech.ac.ke

DAY 2

10th June 2026 | 8AM – 4PM

12:15 PM - 12:25 PM	E-Payment and Performance of Small and Medium Enterprises in Nairobi City County, Kenya <i>Makhamara H, Sarah K. & Muthimi J.</i>	The Economic Diplomacy Orientation of Kenya's Foreign Policy Towards the East African Community (EAC) Region: Lessons, Imperatives and Implications <i>Irungu E. I</i>	Varakashi: The Zimbabwe Government's Tactical Social Media Defensive Response to Negative Social Media Protest Posts. <i>Mapuweyi N., Baloyi E, Nyamunda F</i>
12:25 PM - 12:35 PM	Strengthening Entrepreneurial Ecosystems for Sustainable Commercialisation of University-Based Innovations in Kenya. <i>Ochola C. A.</i>	Contribution of Green Practices On Consumer Buying Behaviour in 4-5 Star Restaurants in Nairobi County, Kenya <i>Wakasala M., Miricho M., Wandolo M.</i>	The Role of Entrepreneurship in Transforming University Research into Commercial Ventures <i>Evanca Onyango Odhiambo, Peter Kibas</i>
12:35 PM - 12:45 PM	Impacts of Financial Literacy on the Performance of Small and Medium Enterprises in Kapoeta Town, South Sudan. <i>Lodoso A.</i>	Impact Of Weather and Climate Information Services on Bean Productivity Among Smallholder Farmers in Elgeyo Marakwet County <i>Ann A.</i>	Strategic Capabilities, Research-Industry Policy Alignment and Sustainable Innovation Outcomes in Private Universities in Kenya <i>Okonda M.</i>
12:45 PM - 1:05 PM	Q&A		
01:05 PM - 02:00 PM	Networking & Visit to Exhibitions		
	Lunch Break		
2:00 PM - 4:00 PM	BREAKOUT ROOM A: AUDITORIUM Thematic Area: <i>Entrepreneurship, Startups and Commercialisation</i> Session Chair: Dr. Henry Kiogora Rappoteur: Mark Oduor	BREAKOUT ROOM B: LH005 Thematic Area: <i>Applied Research and Scientific Discovery</i> Session Chair: Dr. Samuel Macharia Rappoteur: Ronald Kipkemoi	BREAKOUT ROOM C: LH006 Thematic Area: <i>Innovation, Technology, and Emerging Frontiers</i> Session Chair: Dr. Joy Kibor Rappoteur: Isaiah Wanjala
2:00 PM - 2:10 PM	Driving Sustainable Futures: Stakeholder Engagement Policy and Strategic Investor Attraction in Nairobi's Real Estate Industry <i>Kithu J. M., Kibas P.B., Mwiti E.</i>	The Phenomenon of Lecturer-Student Relationships in Kenyan Universities: Perspectives from Undergraduate Students <i>Irungu E. J.</i>	Influence of Strategic Management Practices on Organisational Performance of Level Four Hospitals In Migori County <i>Range M. S.</i>
2:10 PM - 2:20 PM	"Development And Thermal Performance Testing of a Novel Building Cladding Panel from Recycled Polystyrene Waste. <i>Tepkenysiroroi E. K.</i>	Ai-Driven Adaptive Learning Solutions for Stem Education in Resource-Constrained Kenyan Schools <i>Ongoma D. S.</i>	Effects of Financial Technology Adoption on Operational Sustainability of Microfinance Banks in Kenya <i>Nyamweya E. N.</i>
2:20 PM - 2:30 PM	Preventive Maintenance and Employee Job Performance In Five Star-Rated Hotels in Nairobi City County, Kenya <i>Akinyi A. W., Nthiga R., Uluma B.</i>	A Context-Aware, AI-Driven Cyber Threat Intelligence Framework for Resilient Mobile Money and Digital Banking Platforms in Kenya <i>Ngunjiri T.N.</i>	Density-Based Contrastive Embedded Framework for Remote Homology Detection in Protein Sequences <i>Wachira W. N.</i>



ZETECH UNIVERSITY
Inventing the future



+254 719 034 500



+254 706 622 557



courses@zotech.ac.ke



www.zotech.ac.ke

DAY 2

10th June 2026 | 8AM – 4PM

2:30 PM - 2:40 PM	Influence of Weather and Climate Information Services on the Adoption of Climate-Smart Technologies Among Bean Farmers in Homa Bay County, Kenya <i>Kalenya M., Orek C., Amwata D.A, Kagabo D., Ngige C.</i>	Rethinking Climate Resilience in Kenya: Harnessing Youth Participation for Effective Climate Action <i>Kimaita S. N., Irungu E. J.</i>	A Resource-Aware Optimisation Framework For Lightweight CNNs Enabling Offline Crop Disease Diagnosis on Edge Devices <i>Kombe J. S., Jayabal L. & Ochieng P.J</i>
2:40 PM - 3:00 PM	Q & A		
3:00 PM - 3:10 PM	The Role of Market Innovation in Shaping Organisational Performance of Dairy Cooperatives <i>Muthii R. Z. & Kibas P.B.</i>	Adoption and Impact of Climate Smart Agriculture Practices in Kigumo Sub-County Murang'a County, Kenya. <i>Weisiko L., Orek C. O., Amwata.D.A</i>	Legal and Theoretical Gaps Between the OSHA 2007 And Modern Mental Health Frameworks Within The Context Of Kenyan Universities <i>Gitonga C. K.</i>
03:10 PM - 03:20 PM	Affirmative Action, Access, And Enterprise Growth: Reconceptualising Youth Participation in Kenya's Public Procurement <i>Kariuki P. W., Chege C.N. & Arani W.</i>	Parameterised Bellman Optimisation for High-Dimensional Markov Decision Process <i>Kiarie M.</i>	Digital Procurement Reform in Kenya: Governance Gaps, Corruption Risks, And the Paradox Of E-Transparency <i>Thiga H. K.</i>
03:20 PM - 03:30 PM	Security Threats to Learning Management Systems in Higher Education: A Systematic Review of Cyber-Attacks and Vulnerabilities <i>Kavoi N.</i>	Population Decline and Vegetation Change in Japan: Evidence from Remote Sensing and Spatial Analysis (2004–2024) <i>Kiprop E., Ondiba H., Kipkirui V.</i>	Leveraging Artificial Intelligence and Digital Innovation for Sustainable Business and Industrial Transformation in Kenya <i>Mulari D. L.</i>



AFRICA CENTRE FOR DATA ANALYTICS AND MODELLING



National Commission for Science, Technology and Innovation



INSTITUTE OF AGING STUDIES



ZETECH UNIVERSITY
Inventing the future



+254 719 034 500



+254 706 622 557



courses@zotech.ac.ke



www.zotech.ac.ke

DAY 3

11th June 2026 | 8AM – 4PM

Day 3
Thursday 11th June 2026
Master of Ceremony: Winnie Odwar

08:30 AM - 09:00 AM	Registration		
09:00 AM - 09:10 AM	Opening Prayers & Welcome Remarks		
09:10 AM - 10:00 AM	Panel Session 5: Thematic Area: Students, Youth Innovation & Talent Development	Session chair	Dr. Wicliffe Anyango, HOD, School of Business & Economics
		Key Note Speaker	Enos Weswa: UK Tech Hub
		Moderator	Wangechi Wahome- Anza Village
		Rapporteur	Mark Oduor, Lecturer Zetech University
		Panelists	Representative Brighter Monday Representative KeNIA Kelvin Gitau, TME Education Prof. Owen Ngumi, Dean of the School of Education, Representative of Zetech University Mike Simiyu, ZUSA Chairperson Carson Anekeya-Unda Youth Network (Zetech Alumni)
10:00 AM - 10:20 AM	Tea Break		
	BREAKOUT ROOM A: AUDITORIUM Thematic Area: Applied Research and Scientific Discovery Session Chair: Dr. Eric Irungu Rapporteur: Paul Kibet	BREAKOUT ROOM B: LH005 Thematic Area: <i>Entrepreneurship, Startups and Commercialisation</i> Session Chair: Maureen Wakasala Rapporteur: Hosea Nyambane	BREAKOUT ROOM C: LH006 Thematic Area: <i>Entrepreneurship, Startups and Commercialisation</i> Session Chair: Dr. Martha Nduta Rapporteur: Steve Korir
10:20 AM - 10:30 AM	From Early Warning to Early Action: Why Conflict Prevention Still Fails in the Horn of Africa <i>Kimaita S.</i>	Digital Transformation, Entrepreneurial Orientation and SME Performance: An Analytical Scientific Examination of Relationships, Patterns and Causal Mechanisms <i>Kitundu, S. N., Kibas P.</i>	A Formally Verified, Decentralised Edge-AI Framework for Competency-Based Higher Education: Addressing the 2029 Kenyan CBC Transition <i>Oguna C.</i>
10:30 AM - 10:40 AM	Modelling Open Channel Fluid Flow Past a Rectangular Channel with Lateral Inflow Channel <i>Macharia S.</i>	Unsteady Laminar Hydromagnetic Newtonian Fluid Flow Past Parallel Porous Flat Surfaces <i>Mburu M. N.</i>	Post-Humanist Communication Theory and AI Futures <i>Kirotwa S.</i>
			 ZETECH UNIVERSITY Inventing the future



+254 719 034 500



+254 706 622 557



courses@zetech.ac.ke



www.zetech.ac.ke

DAY 3

11th June 2026 | 8AM – 4PM

10:40 AM – 10:50 AM	An Evaluation of the Crisis of Decline of Democracy in the EAC: A Case For a Greater Role for The Community <i>Kibet E.</i>	Solideism and the Metaphysical Architecture Of Solipsism: A Physics-Based Ontology of Consciousness. <i>Mwai J.</i>	Elevate Your Work Flow with Tattiana: The Artificial-Intelligence-Powered Virtual Assistant of Tomorrow <i>Mwangi M. M.</i>
10:50 AM – 11:00 AM	Does Bigger Still Mean Better? How Seed Capital Affects Performance of Jua Kali Enterprises in Kamukunji, Kenya. <i>Wanja W., Stephen M.A. Muathe, Eliud O.</i>	Evaluating Game-Based Learning as A Tool for Improving Computational Skills Among Primary School Students. A One-Term Quasi-Experimental Study. <i>Mollie E. A. O.</i>	Driving Sustainable Futures Through Research, Innovation and Industry: Leveraging Diaspora Remittances for Inclusive Economic Development in Kenya <i>Mutua J. K.</i>
11:00 AM - 11:10 AM	Assessing Kenya's Mediation in The Horn of Africa: Digital Diplomatic Effectiveness and Implications for Regional Policy <i>Cheruiyot A.</i>	Reframing Survival: The Inverted Maslow Model for Contextual Mental Health Practice in Africa <i>Tepkenysiroroi E.</i>	Developing Ai-Powered Suba Language Technologies for Indigenous Knowledge Preservation in Kenya's Competency-Based Education <i>Ondiba H.</i>
11:10 AM - 11:20 AM	Hydromagnetic Nanofluid Flow through Stretching Convergent-Divergent conduit <i>Githaiga P.</i>	Gamified English Language Teaching: Strengthening Foundational English Literacy and Learning Outcomes in Nyamira South, Nyamira County, Kenya <i>Kiarie M. N.</i>	The Nexus Between Artificial Intelligence and Entrepreneurship Education: A Comparative Analysis of the University of Iowa (USA) and Selected Kenyan Universities <i>Okeyo W., Njuguna A., Mwikya J., Muathe S., Mwangi E., Kosimbei G., Karari E., Nambiri J., Muindi B., Maingi D., Doresca, D., Johanns, P.J</i>
11:20 PM - 11:30 PM	Proximity-Triggered Geofencing Strategy as a Catalyst for Entrepreneurial Growth in Consumer Engagement <i>Njore P.</i>	Effect of Green Innovation Practices On Environmental Performance of SMEs in Plastic Recycling, at Ecopost Ltd, Nairobi <i>Kitundu, S.N., Chege C. N.</i>	AI-Based DNS Anomaly Detection for Traditional DNS and DNS-over-HTTPS Traffic in Sustainable African Internet Infrastructure <i>Kariuki S. K.</i>
11:30 AM – 11:40 PM	Is Unequal Artificial Intelligence Integration in Higher Education A Pathway to Structural Inequalities? <i>Chege S., Muindi B.</i>	Digital Infrastructure Dependency, Cash Substitution and Systemic Financial Fragility in Emerging Economies <i>Anyango W. O.</i>	Digital Frontiers in Precision Agriculture: UAVs and Farming-as-a-Service in Kenya <i>Waweru B. M.</i>
12:40 AM – 11:50 PM	Collaborative AI in Community Radio: Designing Ethical and Inclusive Technology for Hyperlocal Journalism <i>Khaemba R.</i>	Behavioural Finance Concepts, Domains, And Gaps: A Systematic Literature Review in Scopus-Indexed Journals <i>Kiraithe D. M.</i>	
11:50 AM -12:10 PM	Q&A		
12:10 PM - 2:00 PM	Visit to the Exhibitions		
	Lunch Break		



ZETECH UNIVERSITY
Inventing the future



+254 719 034 500



+254 706 622 557



courses@zetech.ac.ke



www.zetech.ac.ke

DAY 3

11th June 2026 | 8AM – 4PM

Closing Ceremony
Moderator: Mr. John Mwai
Rapporteur: Dr. Catherine Njoki

02:00 PM - 02:10 PM	Welcome Remarks by the moderator
02:10 PM - 02:25 PM	Recap by Prof. Peter Kibas , Dean, School of Business and Economics
02:25 PM - 02:55 PM	Remarks by: Prof. Njenga Munene J. , Vice Chancellor, Zetech University Prof. Harriet Kidombo , Chair of Council, Zetech University Prof. Susan Alfano Nkinyangi , Chancellor, Zetech University
02:55 PM - 03:15 PM	Closing Speech by Dr. Tonny Omwansa , CEO KeNIA



ZETECH UNIVERSITY
 Inventing the future