

## 9<sup>TH</sup> BRUNEI INTERNATIONAL CONFERENCE ON ENGINEERING AND TECHNOLOGY (BICET 2023) International Convention Centre (ICC), Berakas, Brunei Darussalam 23-25 October 2023

#### **PROGRAMME**

## DAY 1 MONDAY, 23<sup>rd</sup> OCTOBER 2023

TIME				PROGRAMME			
08:30	Registration						
09:00	Opening Remarks						
09:20	Keynote Lecture 1 Preparation of Cyclic Polymer and Its Application to Nonbonding Cross-Linking Agent for Polymer Network with Movable Cross-Linking Points Professor Dr. Masataka Kubo Mie University, Japan [Dewan Muzakarah   Muzakarah Hall]						
10:00				Coffee Break			
		Parallel Session BICET 1A [Bilik Sepakat 2   Sepakat Room 2] Civil/Chemical Engineering		Parallel Session BICET 1B [Dewan Muzakarah   Muzakarah Hall] Electrical and Electronic Engineering	Parallel Session BICET 1C [Bilik Sepakat 3   Sepakat Room 3] Petroleum and Chemical Engineering		
10:20	106	Kinetic Façade System as a Sustainable Tool for Improving Building Performance in Brunei Darussalam Dk Nur Amalina Pengiran Haji Kamaludin, Zulkefle Ismail and Saiful Baharin Duraman	64	Carbon Emission Reduction Performance Evaluation of Electric Power Enterprises from the Perspective of 'Double Carbon' Jianfeng Wang, Nurulazlina Ramli, Noraidah Mohd Shariff, Hock Siong Chong, Azlan Aziz and Zunaidi Ibrahim	8	The Future of Energy and Environmental Technologies: Graphene and Beyond Maziyar Sabet	
10:40	120	Study of Bioclimatic Architecture Strategies to Attain Sustainability in Brunei Darussalam Arif Safwan, Mohamed Rashid, Zulkefle Ismail and Rajul Adli	72	V/F Control with SPWM Implementation Using F28379D DSP for AC Drives  Kah Haw Law, Sheik Mohammed Sulthan, Hj Ismit Bin Hj Muhammad, Swee Peng Ang, Kenneth Siok Kiam Yeo and Nur Atiqah Binti Jefry	7	Prediction of Clay Problematic Zones of Brunei's Well Using Spectral Gamma Ray Logs Amila Fashihah Haji Abu Bakar, Stephen Tyson and Bashir	
11:00	89	Traffic Safety Analysis of Roundabouts: A Literature Review Nabil Naim, Yok Hoe Yap and Soon Jiann Tan	65	The Power Grid Enterprise Materials Standardized Evaluation Based on Improved Matter Element Extension Model with Variable Weights Jianfeng Wang, Nurulazlina Ramli, Noraidah Mohd Shariff, Hock Siong Chong, Azlan Aziz and Zunaidi Ibrahim	11	Experimental Assessment using Water-based Mud System in Drilling Operations Siti Nur Alyana Syaqinah Awg Abdul Rahman and Bashir Busahmin	
11:20	53	Adsorption Isotherms Modelling Study of Alpha Olefin Sulphate (AOS) on Silica Surface Farah Rosmaniza Redzuan, Iskandar Dzulkarnain and Ahmad Syakur Huzaifah Azham	111	Assessing the Feasibility and Performance of Solar-Wind Hybrid Power Plants in Coastal Area of Bangladesh: A Techno-Economic Analysis Khairul Eahsun Fahim, Md Ashraful Islam, Md Rakibul Islam, Khondaker Labib Al Jonayed, Adri Shankar Das, Sakib Sadi and Fardin Rahman Sahil	34	Compositional Kriging Analysis: A Spatial Interpolation Method for Texas Population Data 'Ahram Kim, Bashir Busahmin and Stephen Tyson	
11:40	107	Modelling Fly Ash Blended Concrete Resistance to Acid Attack Based on Fly Ash Particle Size and Replacement Level Nakabuubi Muniirah and Saiful Baharin Duraman	46	Retrofitted Electric Scooter – Design, Development, Implementation and Testing Sheik Mohammed Sulthan, Ak Khairum Khafi Pg Aliahman, Ang Swee Peng, Ahmad Azlan and Law Kah Haw	10	Spatial Variability of Grain Size of Jalan Lamunin Outcrop in Brunei Darussalam Using Spectral Gamma Ray and Sieve Shaker Amirah Johari, Stephen Tyson and Bashir Busahmin	
12:00				Lunch Break			
13:30	Professor Dr. Izharul Haq Farooqi Aligarh Muslim University, India  [Dewan Muzakarah   Muzakarah Hall]  Parallel Session BICET 2A  Parallel Session BICET 2B  Parallel Session BICET 2C					Parallel Session BICET 2C [Bilik Sepakat 3   Sepakat Room 3]	
14:10	59	Application of Circular Economy in Construction: A Brief Review Preethi Amrut Rao, Md Motiar Rahman and Saiful Baharin Duraman	97	Learning Queueing Time in XGPON using Artificial Neural Network Regression Analysis to Improve Dynamic Bandwidth Allocation  Nur Asfahani Ismail, Sevia Mahdaliza Idrus, Muhammad Alfarabi Muhammad Iqbal, Nor Affida M.Zin, Arnidza Ramli, Nur'Azmina Lingas and Nor Asiah Muhamad	36	Mechanical Engineering  Optimizing Water Management in Vertical Farming: Design and Implementation of an Automated Pneumatic Water Level Control System Mek Shuet Yi, Ibrahim Zunaidi, Ya'akub Seri Rahayu and Suhaili Wida	
14:30	68	BIM in EOL Waste Management: A Brief Review  Ahsha Roslim, Md Motiar Rahman and Ismawi Hj Md  Yusof	114	Comparative Study and Analysis of Deep Learning Algorithms for Vehicle Classification Jin Herng Chang, Tiong Hoo Lim and Wei Hong Lim	82	Automated and Smart Manufacturing Systems – An Investigation Kabinraja Namakkal Ramasamy, Abdul Md Mazid, Mohammad Yeakub Ali, Neamul Khandaker and Sumaiya Islam	
14:50	71	Circular Economy in Construction: A Brief Review of Drivers Preethi Amrut Rao, Md Motiar Rahman and Saiful Baharin Duraman	103	Managing Implementation of 5G Network Infrastructure Within Airport Boundary Badriyah Noordin, Sevia Mahdaliza Idrus, Norliza Mohame, Tisiyanah Abd Baki and Nor Azlina Mohd Isa	113	Design & Fabrication of Assisted Upper Body Exercise Equipment (Prototype) Daren Tang Jia Xien and Ahmad Shamil bin Hj Abdul Rahman	
15:10			I	Coffee Break			
15:30	73	Skill Sets for Sustainable Design of Buildings Nor Aqilah Haji Juffle, Md Motiar Rahman and Rajul Adli Asli	28	Evaluation of Partial Discharge and Suitability of Leucaena Leucocephala-Polypropylene Biocomposites for Microwave Antenna Applications Using CIGRE Method II Azlan Aziz, Zunaidi Ibrahim, Maziri Morsidi and Nurulazlina Ramli	43	Desktop Survey of Piping Work Pack for Offshore Maintenance: Cost Effectiveness Suratno Adi Saputro, Mohammad Yeakub Ali and Seri Rahayu Ya'akub	
15:50	76	Circular Economy in Construction: A Brief Review of Problems Preethi Amrut Rao, Md Motiar Rahman and Saiful Baharin Duraman	84	Detection of Line-of-Sight Propagation in Massive MIMO Scenario Using Variational Autoencoder Hasnul Hashim	40	Revolutionizing Solar Energy: Enhancing Panel Efficiency with Advanced Machine Learning Techniques and Data Filtering Debasish Sarker, Anando Zaman, Mohammad Kamal Hossain, Md Arifuzzaman, Uneb Gazder, Mokammel Hossain Tito	
16:10	45	Awareness on Sustainable Design Practice in Brunei Nor Aqilah Haji Juffle, Md Motiar Rahman and Rajul Adli Asli	104	Analysis of Radar Cross Section Using Trihedral Corner Reflector for Millimeterwave FMCW Radar Nuraqilah Yusri, Sevia Mahdaliza Idrus, N. Mohamed, P. N. Ja'afar, S. Ambran, N. Shibagaki, K. Kashima and N. Yonemoto	96	Optimization of End Milling Process with Minimum Quantity Lubrication Ahmad Hisyamuddin Onn, Yeakub Ali, Seri Rahayu Ya'akub, Zunaidi Ibrahim, Abdul Md Mazid and Ramesh Singh	
	1			IoT Based Energy Management System for Residential Buildings			
16:30			127	Jason Lim Hong Kuan, Muhammad Norfauzi Dani, Ang Swee Peng, Kenneth S.K. Yeo, Nor Asiah Muhamad, Law Kah Haw and Sheik Mohammed Sulthan			



## 9<sup>TH</sup> BRUNEI INTERNATIONAL CONFERENCE ON ENGINEERING AND TECHNOLOGY (BICET 2023)

#### PROGRAMME

### DAY 2 TUESDAY, 24<sup>th</sup> OCTOBER 2023

TIME	OPENING CEREMONY						
08:00	Arrival of UTB Principal Officers, Staff and Participants, Invited Guests and Registration						
08:30	Arrival of Permanent Secretaries, Deputy Permanent Secretaries, Ambassadors/High Commissioners and UTB Council Members						
	Arrival of the Guest of Honour His Royal Highness Prince (Dr.) Haji Al-Muhtadee Billah ibni His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah The Crown Prince and Senior Minister at the Prime Minister's Office and Pro-Chancellor of Universiti Teknologi Brunei						
	National Anthem						
	Recitation of Surah Al-Fatihah						
	Welcoming Speech Yang Mulia Datin Paduka Professor Dr Dayang Hajah Zohrah binti Haji Sulaiman Vice-Chancellor of Universiti Teknologi Brunei						
	Sabda Launching						
	His Royal Highness' Royal Speech and Official Opening of UTB-STE Connect 2023						
	Multimedia Presentation						
09:00	Presentation of UTB-STE Connect 2023 Pesambah						
03.00	Plenary Session Prof. Datuk Ir. Ts. Dr. Ahmad Fauzi bin Ismail Vice-Chancellor of Universiti Teknologi Malaysia, Malaysia Title: Research and Innovation in Facing Emerging Global Challenges (The What and How)						
	Recitation of Doa Selamat						
	National Anthem						
	His Royal Highness Prince (Dr.) Haji Al-Muhtadee Billah ibni His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah, the Crown Prince and Senior Minister at the Prime Minister's Office and Pro-Chancellor of Universiti Teknologi Brunei leaves the Main Conference Hall						
	Refreshment						
	Photo Session						
	His Royal Highness Prince (Dr.) Haji Al-Muhtadee Billah ibni His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah, the Crown Prince and Senior Minister at the Prime Minister's Office and Pro-Chancellor of Universiti Teknologi Brunei leaves the Ceremony						
10:30	END OF OPENING CEREMONY						



# 9<sup>TH</sup> BRUNEI INTERNATIONAL CONFERENCE ON ENGINEERING AND TECHNOLOGY (BICET 2023)

# PROGRAMME

### DAY 2 TUESDAY, 24<sup>th</sup> OCTOBER 2023

TIME				PROGRAMME				
	Parallel Session BICET 3A [Dewan Muzakarah   Muzakarah Hall] Civil Engineering		Parallel Session BICET 3B [Bilik Sepakat 2   Sepakat Room 2] Mechanical Engineering			Parallel Session BICET 3C [Bilik Sepakat 3   Sepakat Room 3] Petroleum and Chemical Engineering		
11:00	26	Issues and Limitation in Conventional Wastewater Treatment Plant (WWTP): Mini Review  Teh Sabariah Abd Manan, Salmia Beddu, Nur Liyana Mohd Kamal, Daud Mohamad, Affiani Machmudah, Leong Siew Yoong, Zarimah Mohd Hanafiah, Khalid Sayed, Wan Hanna Melini Wan Mohtar, Muhammad Raza Ul Mustafa, Mohamed Hasnain Isa, Mohd Suffian Yusuff and Hamidi Abdul Aziz	39	Computational Fluid Dynamics Analysis on The Hydraulic Performance of Polycrystalline Diamond Compact Drill Bit Designed for Interbedded Formation Drilling Ahmad Majdi Abdul Rani, Fraser Toh Hong Sii and Venkata Somireddy Janga	80	Enhancing Fault Detection in Dynamic Systems Using EWMA-based Multiscale PCA  Aimi Fazira Ahmad Fahmi Lim, Muhammad Nawaz and Abdulhalim Shah Maulud		
11:20	121	A Comprehensive Review of Tropical Constructed Wetlands for the Treatment of Wastewater from Poultry Farms Naurahtul Fikriyah binti Abdullah, Rozeana binti Hj Md. Juani, Ummul Hasnah Haji Hassan, Manickam Sivakumar and Shahriar Shams	13	Thermal Analysis of the Lubrication Fluid Film in a Journal Bearing Chong Yii Kee, Nawaf H. Saeid and Roslynna Rosli	14	Risks and Mitigation Strategies in Carbon Dioxide Storage for Fossil Fuel Utilization A K M Eahsanul Haque, Numair Ahmed Siddiqui and Ahmed Afif		
11:40	85	Extracellular Polymeric Substances (EPS) Formation by Using Domestic Activated Sludge on Activated Carbon: Effect of Dosage Loading  Arina Azmina Ahmad Zubir, Farrah Aini Dahalan and Nabilah	60	The Effects of Different Quenching Mediums on Heat Treated Steel Maziri Morsidi, Ibnu Waie Ali, Aminah Lina Burhanuddin,	63	Extended Pinch Analysis Application for Production Planning Wendy Pei Qin Ng, Chun Hsion Lim, Bing Bing Lim,		
		Aminah Lutpi, Muhammad Khairul Adha Asman, Nur Salsabila Kamarudin, Naimah Ibrahim, Soon-An Ong, Masitah Hasan and Nor Azizah Parmin	1	Asri Muhammad, Zuruzi Abu Samah, Zunaidi Ibrahim, Azlan Aziz and Ahmad Shamil Rahman		Mohammad Hazwan Azri Ummul Hasanah Hj Hassan and Bing Shen How		
12:00				Lunch Break				
		Parallel Session BICET 4A [Dewan Muzakarah   Muzakarah Hall] Civil / Chemical Engineering		Parallel Session BICET 4B [Bilik Sepakat 2   Sepakat Room 2] Electrical and Electronic Engineering		Parallel Session BICET 4C [Bilik Sepakat 3   Sepakat Room 3] Chemical / Electrical and Electronic Engineering		
13:30	115	Removal of Ammonia, COD, BOD, TSS and Color in Padang Siding Landfill Leachate via Optimized Fenton Process With aid of Response Surface Methodology (RSM) Umi Fazara Md Ali, Issa Alabiad, Syahirah Faraheen Kabir Ahmad, Naimah Ibrahim, Fathiah Mohamed Zuki, Anis Atikah Ahmad	58	Investigating Raindrop Energy Harvesting Potential via Triboelectric Nanogenerators on Printed Circuit Board (PCB) Chong Yiliang, Ong Lun Ching and Zuraini Dahari	25	Molecular Interactions of Zinc-based Metal-Organic Framework Cluster and 1-Butyl-3-Methylimidazolium Chloride: Structural and Density Functional Theory Study Mohd. Faridzuan bin Majid and Hayyiratul Fatimah binti Mohd Zaid		
13:50	126	A Comprehensive Review of Anaerobic Digestion and Strategies for Mitigating Ammonia Inhibition through Stripping  Ummul Hasanah Hj Hassan, William B. Zimmerman, Manickam Sivakumar, Shyang Pei Hong, Mohammad Hazwan Azri, Wendy Pei Qin Ng and Dk Norhafizah Pg Hj Muhammad	88	Occlusion-Based Territories Module Transmission Range, Stability, and Disease Detection Algorithm in Varied Setup Conditions for Agriculture Application S. M. N. S. Shatir, E. A. Bakar, M. N. Akhtar, M. N. Abdullah, H. Pubalan and A. H. Ismail	44	Moringa Oleifera (MO) Seeds as a Renewable Dewatering Aid in Electro Forced Sedimentation (EFS) Amina Tahreen and Mohammed Saedi Jami		
14:10	128	Designing Fluidised Bed Reactors for Batch Production of Activated Carbon for Water Treatment Nur 'Adilah binti Haji Arbaie, Nur Haziqah binti Alwi, Nur Za'imah Wafa binti Haji Sapar, Khairunnisa Nabilah Ruslan, Nabisab Mujawar Mubarak, Sivakumar Manickham	94	PiLift: Unleashing Design Excellence in Raspberry Pi Line Follower Forklift AGV Innovation Yap Wei Juin, Mohammad Nishat Akhtar, Sheikh Naim bin Shikh Shatir, Mohd Khairul Nizam bin Md Sharib and Elmi bin Abu Bakar	52	A Comparative Analysis of Emulsion Stability between Activated Carbon and Carbon Quantum dot-based Emulsions for Reservoir Conformance Control Muhammad Mohsin Yousufi, Iskandar bin Dzulkarnain, Mysara Eissa Mohyaldinn Elhaj and Suriati Sufian		
14:30	70	Investigations on the Impact of Varying Pyrolysis Temperature and Duration on the Effectiveness of Biochar in Removing Microplastics Using a Continuous-flow Column- based Process Muhammad Adli Hanif, Naimah Ibrahim, Farrah Aini Dahalan, Umi Fazara Md. Ali, Masitah Hasan, Ayu Wazira Azhari, Raja Nazrul Hakim Raja Nazri and Mohamed Hasnain Isa	92	Comparative Analysis of Concept Drift Detection Algorithms for Electrical Streams for Different Generation Modalities Idris Ismail, Abdul Azeem, Shahwar Shamim and Shahmir Shamim	56	Preparation of Silica/PDMS Hybrid for Transparent Material in Deep UV LED Nurul Amira Shazwani Zainuddin, Erena Uchimura, Takahiro Uno and Masataka Kubo		
14:50	105	Static Pushover Analysis of Koyna Dam Considering the Effect of Concrete Degradation  Nik Zainab Nik Azizan, Taksiah A. Majid, Fadzli Mohamed Nazri, Damodar Maity and Shamilah Anudai @ Anuar	100	Numerical Simulation of High-Efficiency Triple Layer Perovskite Solar Cell Muhammad Ammar Al Haziq Muhammad Najib, Ayu Wazira Azhari, Naimah Ibrahim and Dewi Suriyani Che Halin	62	Fatty Acid Assessment of Crude Palm Oil Using an Artificial Neural Network (ANN) Herlina Abdul Rahim, Siti Nurhidayah Naqiah Abdull Rani, Rashidah Ghazali and Nor Asiah Muhamad		
15:10				Coffee Break				
		Parallel Session BICET 5A [Dewan Muzakarah   Muzakarah Hall] Mechanical Engineering		Parallel Session BICET 5B [Bilik Sepakat 2   Sepakat Room 2] Electrical and Electronic Engineering		Parallel Session BICET 5C [Bilik Sepakat 3   Sepakat Room 3] Petroleum and Chemical Engineering		
15:30	99	Optimal Turning of Ti-Alloy Ti-6Al-4V using ABACUS Simulation  Nitesh Mahato, Abdul Md Mazid, Mohammad Yeakub Ali and Neamul Khandoker	6	Comparative Study of Normal and Joint 11kV XLPE Cable under Offline Conditions using Scale PD Calibrator Vinoth Selvabala, Ahmad Zaidi Abdullah, Nurhafiza Azizan, M. H. Hashim	57	Optimization of the Fabrication Process of Flexible Dye- Sensitized Solar Cell for Indoor Application Siti Nur Azella Zaine, Badrul Amin Che Hassan Nordin, Sherry Hui Xin Wong, Ameerul Aqil Muhammad Asri and Muhammad Azim Ismail		
15:50	37	Finite Volume Analysis for Enhanced Oil Recovery (EOR) using Green Hybrid Nanofluids for 3D Reservoir Geometry Hamzah Sakidin, Mudasar Zafar, Abida Hussain, Mikhail Sheremet, Iskandar Dzulkarnain, Roslinda Nazar, Abdullah Al-Yaari, Mudassar Iqbal and Mohd Zuki Salleh	109	Enhancing Agriculture with IoT Based Smart Vertical Hydroponics System for Urban Farming Zuraini Dahari, Tan Yi Ka, Liew Poh Yen, Muhammad Zhafri bin Mohd Yazid, Kang Xian Jie, Teh Su Yang and Nor Asiah Muhamad	75	Photocatalytic Activity of Poly(4,4-dihexylcyclopenta[2,1-b:3,4-b']dithiophene)  Farah Zayanah Ahmad Zulkifli, Asahi Kataoka, Kiho Asari, Takahiro Uno and Masataka Kubo		
16:10	79	Behaviour of Mengkuang-Glass/Epoxy Tubes under Lateral Indentation Asad A. Khalid and Nur Razwa A. Shahrin	47	Microsleep Prevention System Based on Eye Aspect Ratio Using Webcam Muhammad Abdul Hadi Syu'aib Suhaili, Nor Asiah Muhamad, Muhd Nazri Ahmad, Nur'Azmina Lingas, Arnidza Ramli and Sevia M. Idrus	48	Performance of Magnetic Carbon Nanotubes for Adsorbing Copper (II) Ions from Wastewater Izzah Syazwani Muhamad, Rama Rao Kari, Yie Hua Tan, Khairunnisa Nabilah Ruslan and Nabisab Mujawar Mubarak		
16:30	98	Parametric Optimisation of Plastic Moulding Processes for Minimal Warpage and Shrinkage Vinitkumar Nareshkumar Patel, Abdul Md Mazid, Mohammad Yeakub Ali, Neamul Khandoker, Mayank Hasmukhbhai Patel						
16.50		and Ramesh Singh		END OF DAY 2				
16:50 19:00				END OF DAY 2  CONFERENCE DINNER [Tarindak D'Seni]				
19.00				COM ENTINCE DIMINER [Tallillar D Selli]				



# 9<sup>TH</sup> BRUNEI INTERNATIONAL CONFERENCE ON ENGINEERING AND TECHNOLOGY (BICET 2023)

## PROGRAMME

### DAY 3 WEDNESDAY, 25<sup>th</sup> OCTOBER 2023

TIME		PROGRAMME					
08:00		Registration					
		Parallel Session BICET 6A [Bilik Sepakat 3   Sepakat Room 3] Civil Engineering		Parallel Session BICET 6B [Dewan Muzakarah   Muzakarah Hall] Mechanical Engineering		Parallel Session BICET 6C [Bilik Sepakat 2   Sepakat Room 2] Petroleum and Chemical Engineering	
8:20	122	Optimisation of a 942-bar Tower Truss Structure using Metaheuristics  Hasnanizan Taib and Ardeshir Bahreininejad	125	Physical Properties and Flexural Strength of Gypsum Panel Reinforced with Abaca Fiber Mohd Iqbal, Said Amir Azan, Yulfian Aminanda and Safinatun Najah	123	Comprehensive Review of Syngas Production through Thermocatalytic Processes, with Emphasis on Dry Reforming: Analysis and Insights in Brunei Darussalam Radhiyyah Al-Maknun Binti Ridhuan, Amalia Batrisyia binti Ans Nawi, Wee Vui Ern, Marjan Ferdaus, Md Maksudur Rahman Khan, Reddy Prasad, Maziyar Sabet, Hazwan Azri	
8:40	83	Forecasting Irrigation Water Requirement and Crop Water Requirement for Paddy Using WEAP-MABIA Hamizah Rhymee, Shahriar Shams, Uditha Ratnayake and Ena Kartina Abd Rahman	18	Vehicle Railroad Using Foam Filled Honeycomb as Absorber Structure Muhammad Hanif bin Awang Sawal and Yulfian Aminanda	50	Design of Distillation Column for Production of Diesel via Pyrolysis of Plastic Waste Awangku Muhammad Matin Osman, Abdul Bari, Nurizzati Selimi, Rama Rao Karri and Nabisab Mujawar Mubarak	
9:00	124	Assessing Group Assignments: A Case Study  Md Motiar Rahman	19	Vertical Tail Aircraft Type Structure Subjected to Impact Loading Awangku Muhammad Muiz Dasuki bin Pg Osman and Yulfian Aminanda	12	Design of Pressure Swing Adsorption for Production of Diesel from Plastic Waste with Production Capacity of 10 Tons Per Day  Nurizzati Selimi, Awangku Muhammad Matin Osman, Abdul Bari, Rama Rao Karri and Nabisab Mujawar Mubarak	
9:20	69	Taxonomy of Engineering Education: Facts and Myth of Bloom's Contribution  Reddy Prasad Donipathi Mogili and Dakshinamoorthy Sathiyamoorthy	41	Thermal and Mechanical Properties of Electrospun PVDF Nanofibers Reinforced with MXene Nanofillers Adel Mohammed Al-Dhahebi, Tamrin Nuge and Mohamed Shuaib Mohamed Saheed	119	Performance of Pretreated of Anaerobic Sludge as Biocatalyst in Acrylic Acid Wastewater Fueled MFC Md Maksudur Rahman Khan, Sumaya Sarmin, Baratharan Ethiraj and D M Reddy Prasad	
9:40	31	Optimization of Naphthalene Removal in Wastewater using nano zerovalent iron: A Response Surface Methodology (RSM) Approach Hifsa Khurshid, Muhammad Raza UI Mustafa, Bashar S. Mohammed, Mohd Shahir Liew and Noor Amila Wan Abdullah Zawawi	74	Effect of Load on Structural Integrity of Pre- crystallized and Crystallized Lithium Silicate Glass Ceramics Abdur-Rasheed Alao, Martin bin Juin and Mohammad Yeakub Ali			
10:00				Coffee Break			
10:20		Pro	ofesso	Keynote Lecture 3 Environmental Management: Era of Sustainability r Dr. Aniruddha Bhalchandra Pandit <i>Institute of Chemical Tec</i> [Dewan Muzakarah   Muzakarah Hall]	chnolog	y, India	
		[Bilik Sepakat 3   Sepakat Room 3] [Dewan Muzakarah   Muzakarah		Parallel Session BICET 7B [Dewan Muzakarah   Muzakarah Hall] Electrical and Electronic Engineering	Parallel Session BICET 7C [Bilik Sepakat 2   Sepakat Room 2] Petroleum and Chemical Engineering		
11:00	112	Hydrodynamic Bathymetry Calibration of Brunei River Asari Abdul Rashid, Uditha Rohana Ratnayake and Rama Rao Karri	110	Cardinality With Spatial Filter for Myoelectric Pattern Recognition Feature Extraction Ahmed A. Al Taee, Rami Khushaba, Tanveer Zia and Adel Al-Jumaily	23	A Numerical Simulation to Understand the Impact of Electrode Porosity on the Performance of Electrolyte Supported Planar Solid Oxide Fuel Cell under Intermediate Temperature  Md. Mosfiqur Rahman, S. H. Shah Newaz, Lukman Ahmed Omeiza, Anitha Dhanasekaran, Veena Raj and Abul Kalam Azad	
11:20	54	Modelling the Effect of Root Depth and Location on the Stability of Slopes Nabilah Sahari, Ena Kartina Abdul Rahman, Uditha Ratnayake and Soon Jiann Tan	117	A Hybrid Upper Limb Rehabilitation System to Stimulate Neural Plasticity Through Augmented Illusion Training Adel Al-Jumaily, Yee Mon Aung, Sheik Mohammed Sulthan, Kenneth Siok Kiam Yeo, Khairuddin Ghafar Abd Gapar and Ahmad Elaklouk	129	Isotherm Modelling and Error Analysis of Adsorption of Cadmium-contaminated Water by Magnetic Carbon Nanotubes (MCNT) Izzah Syazwani Muhamad, Rama Rao Karri, Yie Hua Tan, Shahriar Shams, Khairunnisa Nabilah Ruslan and Nabisab Mujawar Mubarak	
11:40	33	3D Computational Fluid Dynamics Modelling on Riverbed Scouring Caused by Pipeline Crossing Zahiraniza Mustaffa, Ebrahim Hamid Hussein Al- Qadami, Muhammad Amin Ahmad Rusli, Mohd Adib Mohammad Razi and Syed Muzzamil Hussain Shah	91	Comparative Analysis of State of Charge (SOC) Estimation of an Electric Vehicle Battery  Awang Abdul Hadi Isa, Sheik Mohammed Sulthan, Muhammad Norfauzi Dani, Dina Shona Laila and Tan Soon Jiann.	38	Mechanism of Zinc Oxide Nanoparticles Synthesized Via Sonochemical Technique for Energy Applications Ahmed Mohamed Musa Mohamed, Nabisab Mujawar Mubarak, Yie Hua Tan, Arshid Numan, Mohammad Khalid, Rama Rao Karri, Bashir Suleman Abusahmin and Khairunnisa Nabilah Ruslan	
12:00		Lunch					
13:30	Keynote Lecture 4 Identity-of-Interest (IoI) Searching in Public via Multi-Modal Face Images Professor Ir. Ts. Dr. Shahrel Azmin Sundi @ Suandi <i>Universiti Sains Malaysia, Malaysia</i> [Dewan Muzakarah   Muzakarah Hall]						
		Parallel Session BICET 8A [Dewan Muzakarah   Muzakarah Hall] Electrical and Electronic Engineering		Parallel Session BICET 8B  [Bilik Sepakat 2   Sepakat Room 2]  Mechanical Engineering			
14:10	67	FPV Cooling Performance Analysis  Hadi Mohaimin, Kenneth Siok Kiam Yeo and Rafidah Petra	5	Effect of Dillenia Suffruticosa Leaf Extract Corrosion Inhibitor on the Selective Attack of Mild Steel in 1 M Hydrochloric Acid Solution  Ukashat Mamudu, Mohammad Redza Hussin, Lukman Ahmed Omeiza, Jose Hernandez Santos, Mohamad Sahban Alnarabiji and Ren Chong Lim.		<del>-</del>	
14:30	87	Review of Different Types of Solar Tracking Systems Serina Chee Lian Lim, Swee Peng Ang, Nor Asiah Muhamad, Kenneth Siok Kiam Yeo, Saiful Bahri Jaafar and Ismit Mohamad	49	Performance of Hybrid Hemp-Glass/Epoxy Curved Pipe Under Bending Asad A. Khalid and Shazleen S. Sabat			
14:50	118	The Prospects for Residential Rooftop PV System Investment in Brunei Nuramanina Hamdani, Nor Asiah Muhamad, Rafidah Petra, Swee Peng Ang and Ashraf Khalil					
15:10				Coffee Break			
15:30		CLOSING CEREMONY					