



مؤتمر ميسان الدولي الهندسي الأول

MFIEC 2025

Misan First International Engineering Conference (MFIEC2025)

Scientific sessions for the second day will take place at the College of Engineering, University of Misan

Session Chair		رئيس الجلسة	Dr. Abdulrahman Obeidavi	
Session Co-Chair		مقرر الجلسة	Dr. Ebrahim Salemi	
No of Papers		عدد البحوث	6	
Session Date & Time		وقت الجلسة	26 November 2025 @ 9: 00 Am	
مكان انعقاد الجلسة			ROOM No. (4)	
Join Information – معلومات الدخول				
Track Name			Petroleum and Chemical Engineering	
	Paper ID	Authors Names	Paper Title	Time
1	MFIEC2517	Amel H. Assi*, Maryam K.Farhan	Determine the confined compressive strength by utilizing the dynamic elasticity and petro physical properties	09:00
2	MFIEC2504	Hanan H. Abed*, Saad H. Ammar	Synthesis, Characterization, and Visible Light Photocatalytic Activity of Zeolitic Imidazolate Framework-8 (ZIF-8) for Organic Pollutant Degradation	09:20
3	MFIEC2523	Saifali Al-Musawi*, Bydaa Jabbar, Taha Alyousefi, Aboalhasan Althmnche	Effect of Low-Salinity Water Injection on Carbonate Rock: A Molecular Dynamics Simulation Study	09:40
4	MFIEC2521	Dheyaa S. J. Al-saedi, Ali Nooruldeen*, Bint Alhuda Alaa Kamil, Noor Abdulameer Zmatt	Experimental and Theoretical Study of Well Control Methods Using Simulator for an Oil Field	10:00
5	MFIEC2528	Akram R. Al-Saedi* Zahir K. Al-Khmaesawy, Dheyaa S. J. Al-Saedi	Impact of Grain Roughness on Areal Sweep Efficiency by Polymer Flooding: a Hele-Shaw cell investigation	10:20
6	MFIEC2530	Mohammed Abdul Ameer*, Jwan Mohammed	Comprehensive Analysis of Well Test Method for Reservoir Characteristics	10:40



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Session Chair		رئيس الجلسة	Prof. Dr. Mohammed Salih Abd-Ali	
Session Co-Chair		مقرر الجلسة	Asst. Prof. Dr. Murtada Abbas Abd-Ali	
No of Papers		عدد البحوث	6	
Session Date &Time		وقت الجلسة	26 November 2025 @ 9: 00 Am	
مكان انعقاد الجلسة			ROOM No. (2)	
Join Information – معلومات الدخول				
Track Name			Civil Engineering: Structures	
	Paper ID	Authors Names	Paper Title	Time
1	MFIEC2505	Rasha Flayyih*, Zuhair Al-Jaberi	Review of Shear Behavior of GFRP-Reinforced Concrete Beams and Evaluation of Design Codes	09:00
2	MFIEC2516	Fatimatulzahraa Mousa*, Zuhair Al-Jaberi	The Role of Equivalent Fiber Reinforcement Index in Assessing Flexural Performance of Strengthened Masonry Walls	09:20
3	MFIEC2510	Abdulkhaliq A. Jaafer, Hussein K. Hashim*, Hayder al-khazraji	Structural Performance of Hybrid Deep Beams Incorporating Arched Strut Configurations and Diagonal Reinforcement	09:40
4	MFIEC2526	Samir M. Chassib, Ali Maher Shnaishel*, Montadhar J. Kadhim	Improving Flexural Behavior the Reinforced Concrete Slab Using Polymer Modified Cement Mortar	10:00
5	MFIEC2527	Aqeel A. Jbarah*, Nasser Hakeem Tu'ma	Parametric Study of the Shear Strength of Ultra-High-Performance Concrete (UHPC) Tapered Beams	10:20
6	MFIEC2531	Nasser Hakeem Tu'ma*, Mohammad Shnawa Jasim	Moment Redistribution of Tubular Continuous Ultra-High Performance Concrete Beams	10:40



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Session Chair		رئيس الجلسة	Asst. Prof. Dr. Faten Ibrahim Mussa	
Session Co-Chair		مقرر الجلسة	Asst. Prof. Dr. Hayder Al-Khazraji	
No of Papers		عدد البحوث	6	
Session Date & Time		وقت الجلسة	26 November 2025 @ 9: 00 Am	
مكان انعقاد الجلسة			ROOM No. (3)	
Join Information – معلومات الدخول				
Track Name			Civil Engineering: Infrastructures	
	Paper ID	Authors Names	Paper Title	Time
1	MFIEC2513	Abbas O. Dawood*, Mosa J. Al-Mosawe, AbdulMuttalib I. Said	Numerical Modelling of Buried Concrete Pipes Under Earth-Fill Loadings Installed according to Iraqi	09:00
2	MFIEC2518	Ghufran J. Raheem*, Sa'ad F. Resan	Reinforced Concrete Beam of In plane Tapered Flange: Geometrical Aspects Effectiveness	09:20
3	MFIEC2512	Khatam S. Hussein*, Nasser H. Tu'ma	Strengthening Techniques for Web Opening Shear Span of Composite Encased Steel-Concrete Beams	09:40
4	MFIEC2506	Baydaa Abdul Kareem*, Mustafa Al-Bazoon, Salah L. Zubaidi	Application of Linear Autoregressive (AR) Model for Univariate Stream-flow Forecasting	10:00
5	MFIEC2532	Noor Suhail*, Zuhair Al-Jaberi	Shear Strength of FRP-Reinforced RC Beams: Evaluation of Design Codes and a Predictive Model	10:20
6	MFIEC2503	Sukru Aslan, Ali Alhraishawi*	Optimization of Microwave Operating Conditions in Waste Biological Sludge Disintegration	10:40



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Session Chair		رئيس الجلسة	Prof. Dr. Adel Manaa Dakhil	
Session Co-Chair		مقرر الجلسة	Asst. Prof. Dr. Mohammed Al-Nussairi	
No of Papers		عدد البحوث	8	
Session Date & Time		وقت الجلسة	26 November 2025 @ 9: 00 Am	
مكان انعقاد الجلسة			ROOM No. (5)	
Join Information – معلومات الدخول				
Track Name			Electrical Engineering	
	Paper ID	Authors Names	Paper Title	Time
1	MFIEC2501	Sarah Sabeeh*	GestureLSTM: A Robust Deep Learning Model for Electromyography-Based Hand Gesture Recognition	09:00
2	MFIEC2515	Khaled M. Othman*, Riyadh Z. Sabry	Comparative Study of the Thermal Performance of High Voltage Cables at 132 kV and 33 kV	09:20
3	MFIEC2514	Husam A. Salim*, Jabbar Rashed Rashed, Ali Bouhafer	Comprehensive Analysis and Optimum Sizing of Hybrid Power Generation Systems Using Metaheuristic Optimization Algorithms for off-Grid Electrification	09:40
4	MFIEC2524	Batool Abd Almutalib Muslut*, Ahmed Raisan Hussein	Fault Detection and Localization in Transmission Lines Using Adaptive Neural Fuzzy Inference System	10:00
5	MFIEC2502	Fatima Hikmat Ali*, Hasanain A. H. Al-Behadili, Nsaif Jasim Hadi, A.J. Stocker	Temporal Analysis of foF2 and MUF Variations over Iraq Using IRI-2020 during geomagnetic storms	10:20
6	MFIEC2522	Mays Kareem jabbar, Thaar A.Kareem*, Ahmed Majid AbdulAbbas	A 3–5 GHz UWB Receiver Front-End Employing a Broadband High-Gain Noise-Canceling Balun LNA for Medical Systems	10:40
7	MFIEC2525	Nsaif Jasim Hadi*, Hussain Jabar Lafta, Hattan Khaled Ballaji	Simulation-Based Analysis of Extreme Heat Effects on 4G, 5G, and Wi-Fi Performance: A Case Study in Maysan, Iraq	11:00
8	MFIEC2511	Hamza Oudah Alsadi*, Ayad Mohsen Sabhan, Ruaa Oudah. Alsadi, Anfal H. AL-Samkri, Mays A. Al-ghrawy, Hayder I. Al-Halafi	An AI-Based Hybrid Approach for Early Prediction and Detection of Oil Pipeline Violations and Failures	11:20



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Session Chair		رئيس الجلسة	Prof. Dr. Mahmood Aziz Mohammed	
Session Co-Chair		مقرر الجلسة	Lec. Dr. Mahmood Shaker Mahmood	
No of Papers		عدد البحوث	6	
Session Date & Time		وقت الجلسة	26 November 2025 @ 9: 00 Am	
مكان انعقاد الجلسة			ROOM No. (1)	
Join Information – معلومات الدخول				
Track Name			Mechanical Engineering	
	Paper ID	Authors Names	Paper Title	Time
1	MFIEC2520	Ahmed K. Alshara*, Hussein M. Mitlaik, Ahamed Q. Mohamed	Numerical Study for the Effect of Inclination Angle of Solar Chimney and Solar Angle on the Room Ventilation in Al-Amarah City	09:00
2	MFIEC2519	Mohammed Alktrane*, Hussain Madhi, Qudama Al-Yasiri, Péter Bencs, Sattar Aljabair, Ahmed Abdulnabi Imran	Recent Progress in Photovoltaic/Thermal Systems using Hybrid Nanofluids	09:20
3	MFIEC2508	Ali H. Alhilfi*, Andrew Rusinko	Advanced Modeling of Ultrasound-Assisted Phase Transformations in Shape Memory Alloys	09:40
4	MFIEC2509	Saad H. Saadon*, Mohammed H. Alhamdo	Numerical investigation to enhance rotary air preheater performance by pass single channel approach	10:00
5	MFIEC2507	Yousif Hamed, Abdulrezaq Aqeel*, Muqtada Lafta, Qudama Al-Yasiri, Mohammed Alktrane*, Marta Szabo	Effect of Waste-Based Fillers on the Thermal Insulation of Concrete Bricks	10:20
6	MFIEC2529	Hayder J. Mohammed*, Nikolay V. Korovkin, Qusai Al Naimi, Bilal Albataineh	Promoting Integration of Sustainable Architecture with Renewable Energy Systems in the Middle East: Islamic Garden as a Model	10:40