



Ministry of Higher Education & Scientific Research
University of Baghdad - College of Engineering



COEC8 – 2021
8th Engineering and 2nd International Conference for
College of Engineering - University of Baghdad
24 – 25 November 2021

Conference Sessions Schedule



**Ministry of Higher Education & Scientific Research
University of Baghdad - College of Engineering**



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad
24 – 25 November / 2021

Halls of the Conference Sessions

Sessions No.	Track No.	Specialty	Day / Date	Place of Halls	Page No.
Open Ceremony Session			1st – 24/11/2021	Al-Hakeem Hall – University of Baghdad	3 - 4
Research Sessions					
1 - 7	I	Civil Engineering	2nd – 25/11/2021	Civil Engineering Department	5 - 11
8 - 11		Architecture Engineering	2nd – 25/11/2021	Architecture Engineering Department	12 - 15
12 - 13		Water Resources Engineering	2nd – 25/11/2021	Water Resources Engineering Department	16 – 17
14		Surveying Engineering	2nd – 25/11/2021	Surveying Engineering Department	18
15 - 18	II	Mechanical, Energy, and Aeronautical Engineering	2nd – 25/11/2021	Mechanical Engineering Department	19 – 22
19 - 21	III	Electrical, Electronics & Communication, and Computer Engineering	2nd – 25/11/2021	Electrical Engineering Department	23 – 25
22 - 23	IV	Chemical, Petroleum, and Environmental Engineering	2nd – 25/11/2021	Chemical and Petroleum Engineering Departments	26 - 27



وزارة التعليم العالي والبحث العلمي
جامعة بغداد – كلية الهندسة



المؤتمر الهندسي الثامن والدولي الثاني لكلية الهندسة – جامعة بغداد
24 – 25 تشرين الثاني / 2021

منهاج حفل الافتتاح – قاعة الحكيم / جامعة بغداد - الجادرية

رئيس الجلسة: أ.د. صبا جبار نعمة
المقرر: أ.د. أكرم وهبي عزت

الأربعاء – 2021/11/24 (اليوم الأول)	
الوقت	الفعالية
9:00 – 10:00 AM	تسجيل واستضافة الباحثين والمشاركين في المؤتمر
10:00-10:05 AM	الإفتتاح بعزف السلام الجمهوري والنشيد الوطني
10:05- 10:15 AM	تلاوة آيات من القرآن الكريم وقراءة سورة الفاتحة على أرواح شهداء العراق
10:15- 10:30AM	كلمة السيدة عميد كلية الهندسة – رئيس اللجنة المنظمة المحترمة
10:30- 10:45AM	كلمة معالي وزير التعليم العالي والبحث العلمي المحترم
10:45 - 11:00 AM	كلمة سيادة رئيس جامعة بغداد المحترم
11:00 - 11:15 AM	فلم وثائقي عن كلية الهندسة – جامعة بغداد
11:15 - 12:15 AM	محاضرة الجلسة الافتتاحية: عنوان المحاضرة: ((التعليم الهندسي في القرن الحادي والعشرين: التحديات والفرص)) إسم المحاضر: أ.د. رياض صالح المهدي
12:15 - 1:00 PM	فترة الصلاة والاستضافة



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad
24 – 25 November / 2021

Open Ceremony Schedule / Al-Hakeem Hall – University of Baghdad

Chairman: Prof. Dr. Saba J. Neamah

Coordinator: Prof. Dr. Akram W. Ezzet

Wednesday, November 24th, 2021 (1st Day)

Time	Activity
9:00 – 10.00 AM	Registration and Hosting Authors and Participants in the Conference
10:00-10.05 AM	Opening by Playig Republican Peace and Anthem
10.05- 10:15 AM	Reciting Verses from the Quran and Reading Surat Al-Fatihah on the Souls of the Martyrs of Iraq
10.15- 10:30AM	Speech of Her Excellency the Dean of College of Engineering - Head of Organizing Committee
10.30- 10:45AM	Speech of His Excellency the Minister of Higer Education and Scintific Research
10.45 - 11:00 AM	Speech of His Excellency the Head of University of Baghdad
11.00 - 11:15 AM	Documentary Film about the College of Engineering – University of Baghdad
11.15 - 12:15 AM	Opening Session Lecture: Title: ((Engineering Education in the 21st Century: Challenges and Opportunities)) Lecturer: Prof Dr. Riadh S. Almahaidi
12.15 - 1:00 PM	Prayer Period & Coffee Break



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Nada Mahdi Fawzi
Coordinator: Asst. Prof. Dr. Zena K. Abbas
Admin: Lect. DR. Mustafa. A. Helal

Session No.: 01
Track: I- Civil - Construction Materials
Hall Name: Khalid Shakir

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
485	Optimum Amount of Silica Fume for Best Structural Concrete Properties	Sheelan Mahmoud Hama, Shaho Mahmoud Hama, Jalil Eayda Kwad	9:00 AM
490	Some Transport Properties of High Volume Metakaolin Concrete Incorporated Wastes of Clay Brick and Plastic	Mahmood Fawzi Ahmed	9:20 AM
533	Effect of Aggregate Proportion for Different Types on Porous Concrete Properties	Rafal Z. M. ALSAFFAR, Dr. Hasan M. A. ALBEGMPRLI	9:40 AM
586	The Use of Nanoparticles and Ceramic Waste Powder in Self Compacting Mortar	Dr. Eethar Thanon DAWOOD1,a) , Emad A. M. ALSUFEE	10:00 AM
619	Mechanical Properties and Strength Development of Polymer Modified Concrete: A Contribution Study	Islam Abdullah Aziz, Khalaf I. Mohammad, Ashtar S. Al-Luhybi	10:20 AM
668	The Influence of Recycled Sand on the Compressive Strength of Fly Ash-Based Geopolymer Mortar	Mustafa Shamsah, Robin Khalfat, K.V.L. Subramaniam	10.50 AM
Coffee Break			11.00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Sawsan Rashid Mohammed
Coordinator: Asst. Prof. Rawaa Khalid
Admin: Lect. DR. Mustafa. A. Helal

Session No.: 02
Track: I- Civil- Construction Materials, Management
Hall Name: Khalid Shakir

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
680	Properties of Rubberized Cement Mortar Containing Silica Fume	Dhabia Saad Muzahim, Prof. Dr. Alyaa abbas Al-attar	11:30 AM
729	Evaluation of Concrete Quality by Nondestructive Tests	Najlaa Zaidan Kazem, Mohammed Mosleh Salman and Husain Khalaf Jarallah	11:50 AM
768	Evaluation of fracture parameters for fiber reinforced self-compacting geopolymers concrete	Zaid A. Mohammed, Tareq S. al-Attar1, Basil S. al-Shathr	12:10 PM
544	Determining The Appropriate Profit Ratio for School Project in Different Areas of Baghdad, Iraq	Hussein Ismael Shhadha, Dr. Kadhim Raheim Erzaij	12:30 PM
566	Impact of Project Delivery Method on Geotechnical Site Conditions for Implementing Water Treatment Plants in Iraq	Ahmed Kadhom, Meervat Altaie	12:50 PM
675	Using Smartphone's Camera and a Software to Generate 3D As-Built Model of Building in Construction Site	Sana Salam Kadhim, Abbas M. Burhan	01.10 PM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Thamir Khudhaeir Mahmud. Al-Azawi
Coordinator: Asst. Prof. Dr. Alaa Husein
Admin: Lect. Ayad Ali

Session No.: 03
Track: I- Civil- Structural Engineering
Hall Name: Naji Abdul-Oudir

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
495	Nonlinear Finite Element Analysis for Reinforced Fibrous-Self Compacted Concrete Box Girder using Recycled Concrete Aggregate	Mohammed A. Hadi, Eyad K. Sayhood, Ali S. Resheq	9:00 AM
514	Literature Review on Size Effect of Shear Reinforced Concrete Beams	Hind T. Jaber, Kaiss F. Sarsam, Bassman R. Muhammad	9:20 AM
519	Behavior of Composite Trapezoidal Web Girders	Ghzwani G. Jumah, Wael S. Baldawi, Ammar A. Ali	9:40 AM
520	Shear Behavior of Composite Girders of Zigzag Web	Ghzwani G. Jumah, Wael S. Baldawi, Ammar A. Ali	10:00 AM
530	Behavior of Concrete Confined by Carbon Fiber Reinforced Geopolymer Adhesive Tube under Axial Load	Wissam D. Salman, Wrood H. Sachet, Noor S. Hadi, Hanaa A. Ali	10:20 AM
531	Compression Behavior of Concrete Confined by Carbon Fiber Reinforced Geopolymer Adhesive Tube after Exposure to Sulfuric Acid Attack	Wissam D. Salman, Wrood H. Sachet, Hanaa A. Ali, Noor S. Hadi	10.50 AM
Coffee Break			11.00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Nazar Kamil Ali Oukaili
Coordinator: Prof. Dr. AbdulMuttalib I. Said
Admin: Lect. Ayad Ali

Session No.: 04
Track: I- Civil- Structural Engineering
Hall Name: Naji Abdul-Qudir

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
549	Numerical Study on The Shear Strength of Reinforced Concrete Beams Using ABAQUS	Hind T. Jaber a ,Kaiss F. Sarsam , Bassman R. Muhammad	11:30 AM
556	Behavior of Self-compacting concrete Deep Beams under Combined Loads of Quasi-Static and Localized Elevated Temperature	Ali Hameed Aziz, Ola Haydar Faeq	11:50 AM
649	Experimental Study on Strengthening Punching Shear in Concrete Flat Plates by Steel Collars	Ahmed Aziz Abdulhussein, Mohannad H. Al-Sherrawi	12:10 PM
676	Steel Composite Bridge Deck Response to Explosions	Ammar A Abdul Rahman	12:30 PM
735	Finite Element Modelling of Corrugated Steel Plate Reinforced Concrete Composite Shear Walls under Seismic Loadings	Nabaa Salah Hassan	12:50 PM
667	Overview of Seismic Performance Assessment of Reinforced Concrete Buildings	Aya Alothman, Sujith Mangalathu, MD Morshed Alam, Abbas Allawi	01.10 PM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Ass. Prof. Dr. Ihsan Ali Saeb Al-Shaarbaf
Coordinator: Asst. Prof. Dr. Salah. R. Alzaidee
Admin: Lect. Dr. Mohannad Ibrahim

Session No.: 05
Track: I- Civil- Structural Engineering
Hall Name: Jameel Al-Malaika

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
582	Finite element modeling of post fire RC rafters with openings of different sizes and shapes	Bashar F. Abdulkareem, Amer F. Izzet	9:00 AM
594	Effect of posts inclination on the behavior of Prestressed Quadrilateral Perforated Concrete Rafter	Falah J. Alkhafaj, Amer F.Izzet, Nazar K. Oukaili	9:20 AM
662	Influence of hybrid anchors on externally-bonded FRP laminates used for flexural strengthening	Bahaa Al-Atta, Robin Kalfat, Riadh Al-Mahaidi	9:40 AM
763	Finite Element Modeling of Concavely Curved Soffit RC Beams Externally Strengthened with FRP	Khattab Al-Ghrery, ,Nazar Oukaili, Riadh Al-Mahaidi, Robin Kalfa	10:00 AM
799	Serviceability Performance of High-strength Concrete Flexural Members with Internally Unbonded Post-tensioning Strands	Iqbal Peera, Nazar Oukaili	10.20 AM
	Coffee Break		11.00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Alaa Nasir Huraeb
Coordinator: Asst. Prof. Dr. Balgees Abd.
Admin: Lect. Dr. Mohannad Ibrahim

Session No.: 06
Track: I- Civil- Geotechnical Engineering
Hall Name: Jameel Al-Malaika

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
482	Strength of Soft Soil Treated With Biopolymer with Cyclic Wetting and Drying	Teba .A .Abd, Mohammed .Y .Fattah, Mohammed .F.Aswad	11:30 AM
483	Effect of Granular Cushion Stiffness and Dimensions on Load Sharing of Unconnected Piled Rafts in Clayey Soils	Karam R. Khalifa Mohammed Y. Fattah, Nahla M. Salim	11:50 AM
537	Effect of Water-Cement Ratio on Shear Strength Parameters of Jet Grouting Columns	Fadhil W. AL-Malkee, Dr. Mahmood D. Ahmed	12:10 PM
563	Prediction of Consolidation Due to Dewatering by Using MATLAB Software	Omar Y. Mohammed, Ammar A. Shiekha	12:30 PM
564	Effect of Uncontrolled Dewatering on Adjacent Building	Omar Y. Mohammed, Ammar A. Shiekha	12:50 PM
609	Effect of Permeation Grouting with Nano-Materials on Shear Strength of Sandy Soil: An Experimental Study	Rusal Salman Hussien, Bushra Suhale Albusoda	01.10 PM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Basim Hussein Khudhir Alobiady
Coordinator: Asst. Prof. Dr. Mohammed Q. Ismael
Admin: Lect. Aliaa, Faleh

Session No.: 07
Track: I- Civil- Transportation Engineering
Hall Name: Midhat Fadhil

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
489	Spatial Analyses Model for the Public Transportation and the Urban Form Relationship	Ihsan Abbas Jasim Name, Hamid Athab Al-Jameel, Laheab A AL-Maliki, Sohaib K. Al-Mamoori, Nadhir AL-Ansari	9:00 AM
509	Parking Characteristics for Iraqi Hospitals: Al-Najaf City as A Case Study	MuhandJawad Jasim, Hamid AthabEedan Al-Jamee	9:20 AM
591	Car-Following Models Main Characteristics: A Review	Sarah HadiAbdulamirChawosh, Hamid AthabEedan Al-Jameel	9:40 AM
592	Evaluation of Traffic Conditions for Selected Urban streets in North Part of Al-Najaf City	Hamid Athab Al-Jameel, Alaa Abd Al-Abbas Yahya, Firas H Asad	10:00 AM
707	Effect of Nanoclay on Reclaimed Asphalt Mixtures	Mays A. Jaafar, Hasan H. Joni, Hussein H. Karim	10:20 AM
Coffee Break			11:00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof.Dr. Sabeeh Lafta Farhan
Coordinator: Dr. Sally, F. Abdullah
Admin: Aya F. Alobaydi

Session No.: 08
Track: I- Architecture Engineering
Hall Name: Mohammed Makiya

	Lecturer	Lecture Title	Time
Keynote Speaker	Prof. Dr. Sabah Mushatat	Architecture Education: Challenges and Opportunities	9:00 AM

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
746	Definition of Streets Priority to Employ Urban Green Infrastructure in Baghdad City	Maryam F Abdulateef, and Hoda A S Al-Alwan	9:20 AM
507	Community Participation's Role in The Sustainability of Adaptive Reuse	Raghad Ahmed Fadhil, and Sarah Mohammed Al-Zaidi	9:40 AM
631	Strategy of Active Housing	Media Adel Khalaf, Khansaa Ghazi Rasheed, and Rana Mazin Mahdi	10:00 AM
778	Measuring Spatial Properties of Historic Urban NetworksUrban Fabrics	Haider Al-Hashimi, Dhirgham Alobaydi, and Aya Alobaidi	10:20 AM
540	An Analytical study of the Spread Patterns of the Informal Settlements in Baghdad and Sustainable Urban Improvement Approaches.	Ahmed jawad kadhemi, and Zaynab Radi Abaas	10:40 AM
647	Studying Street Configurations and Land-uses in the Downtown of Baghdad	Noor Hadi Alsaffar, and Dhirgham Alobaydi	11.00 AM
	Coffee Break		11.20 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Shaymaa Hameed Alahbabi
Coordinator: Dr. Hisham A. Hussien
Admin: Tara Abeer

Session No.: 09
Track: I - Architecture Engineering
Hall Name: Mohammed Makiya

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
690	From Local Qualities to Global Morphology: The Typology of Road Nodes and its Effect on the Morphology of the Traditional Urban Fabric.	Abdulkarim Al Qeisi, and Hoda Al-Alwan	11:30 AM
535	The Role of Urban Planning in the Dehumanization of Urban Spaces	Nawfal Hussein Al-Mousawi, Abd Al-Hussein Al-Askary, and Wahda Shuker Al-Hinkawi	11:50 AM
499	The Effect of Architectural landmarks on a skyline and the mental images of the cities of ancient civilizations	Maryam Abdulrahman Ahmed, and Ammar Ashour	12:10 PM
737	The Architectural Style of The Abbasid Samarra Mosques	Laheeb Bahjat Saab, and Shatha Abbas Hasan	12:30 PM
523	The impact of Low Light Reflectance Value (LRV) surface positioning on Interior space illumination	Mohammad S. Alayan, and Firas A. Majeed	12:50 PM
748	Expressionism of Metal Architecture	Anees Mohsin Mohammed, and Kadhim Faris Dhumad Al-Essawi	1:10 PM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session Prof. Dr. Ibrahim Jawad Kadhim Al-Yousif
Coordinator: Dr. Fawzia I. Hussein
Admin: Lec. Anas Hamid

Session No.: 10
Track: I - Architecture Engineering
Hall Name: Mehdi Hantoush Hall

	Lecturer	Lecture Title	Time
Keynote Speaker	Prof. Dr. Bahgat Rashad Shaheen	Architecture Engineering in Sixty Years	9:00 AM

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
698	Before Announcing IRAQITECTURE Manifesto (A New Iraqi School of Architecture)	Dr. Arshad AbdulJabbar Alanizi	9:20 AM
475	The Impact of Investment Renewable energies Sources in the Application of Green Architecture	Dr. abdullah saadoon salman, Tuqa M. Hameed	9:40 AM
653	Applications of Ecological Theory in the Urban Environment	Firas Ali Majid, Dr. Zaynab Radi Abaas	10:00 AM
801	Smart Materials and Adaptive Architectural Space	Dr. Inas H. Al-Bakri, Dr. Inaam A. Al-Bazzaz	10:20 AM
512	Potential powers of Urbanism	Lubna Raheem Al-Azzawi, Dr. Zaynab Radi Abaas	10:40 AM
709	The Continuity of The Architectural Output of The New Iraqi Central Bank Building for The Architect (Zaha Hadid) According to Jacobson's Communication Theory	Ali Kareem Jafar, Nada Abdulhussein Hassan Dr. Ibrahim Kadhum Jawad Al-Yusof	11.00 AM
	Coffee Break		11.20 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Hamzah Salman Al-Mamoori
Coordinator: Dr. Ahmed N. Al Shammaa
Admin: Lec. Ahmed I. Kadhim

Session No.: 11
Track: I - Architecture Engineering
Hall Name: Mehdi Hantoush Hall

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
486	Cultural heritage as a policy for competitive cities	Muna Mohammed N. Alsayed	12:00 PM
570	The Effect of Morphological Changes on Reformulated the Urban DNA Structure in Historical City Centers	Sally, F. Abdullah, Mohammed Mahdi Hussein, and Noor H. Alsaffar	12:20 PM
618	A Study of The Stages of Development of Domes in Iran, Central Asia and The Indian Subcontinent After the Islamic Conquest	Anfal Muayad Hijeat, and Inaam A. Albazzaz	12:40 PM
724	Aesthetic Values in Islamic Ornamentation- Abbasid Architecture as a Model	Rawaa Fadhil Hamdi, and Fawzia Irhayyim Al-Assadi	1:00 PM
598	Risk Management and Conservation Strategies for Heritage Sites using Analytic Hierarchy Process (AHP)	Mahmood Chabuk, and Shatha Alamiri	1:20 PM
628	he Architecture of the khanate On the Caravan Roads-Khanates of Karbala As a Model	Zaman Auda AL-Jaberi, and Shatha Alamiri	1:40 PM



Ministry of Higher Education and Scientific Research
University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad
24 – 25 November 2021

Chairman of the Session: Prof. Dr. Riyadh Zuhair Azzubaidi
Coordinator: Dr. Hayder Qais
Admin: Eng. Taghreed Husain

Session No.: 12
Track: I - Water Resources Engineering
Hall: Najeeb Kharoffa

Presentation Schedule of Contributory Papers

2nd Day, Thursday, November 25, 2021

Paper Code	Paper Title	Authors	Time
463	Hydraulic Jump Efficiency on Sluice Gate with Different Operating Systems and Dissipaters	Mohammad Y. Hamid, and Ahmed Y. Mohammed	9:00 am
466	Estimating Discharge Coefficient for Piano Key Weir using ANN Technique	Noor I. Khattab, Azza N. Altalib, and Mowafaq Y. Mohammed	9:20 am
522	Evaluation the Capability of Shatt Al-Arab River to Control Flood Discharge	Alaa Abdula Ali, and Hayder A. Al Thamiry	9:40 am
616	Application of weighted overlay technique to identify water harvesting areas within Al-Teeb watershed, Iraq	Athraa Abbas Kadhim, Mufid Alhadithi, and Alhassan H Ismail	10:00 am
673	Improving the performance of the magnetic system by using vortex in groundwater treatment for irrigation purposes	Liqaa H. Abdul-Raheem and Mahdi S. Jaafer	10:20am
678	Impact of Geographical Locations of the Water Treatment Plants in Baghdad City on Quality of Supplied Water	Ameen Mohammed, Thamer Ahmad Mohammad, and Jinan N. Hamza	10:40 am
	Coffee Break		11:00



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Thamer Ahmad
Coordinator: Dr. Zuhair K. Jahanger
Admin: Eng. Taghreed Husain

Session No.: 13
Track: I- Water Resources Engineering
Hall Name: Najeeb Kharoffa

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
712	Stability of Kongele Earth Dam Against Rapid Drawdown of Water from Reservoir	Sarah Hussein Hashim, and Maysam Thamer Al-Hadidi	11:30 am
732	Estimation of Groundwater Storage Depletion Using GRACE Data in Karbala region, Iraq	Rafef Kadhum, Mufid Alhadithi, and Fareed M. Alattar1	11:50 am
766	An Extensive Study on Evaluating Climate Change Models Impacts in Prediction of Climatology Parameters: Case Study Kor basins, Iran	Azadeh Gholami1, Salma Ajeel fenjan, Keyvan Soltani, Arash Azari, Hossein Bonakdari, and Shahram Rostami	12:10 pm
767	Geometry simulation of stable channel bank profile using Evolutionary PSO algorithm implementation in an ANFIS model	Azadeh Gholami, Salma Ajeel fenjan, Hossein Bonakdari, Shahram Rostami, Isa Ebtehaj, and Amin Kazemian-Kale-Kale	12:30 pm
779	Improving Water Productivity for Various Types of Plants in Different Regimes of Iraq	Zaianb Abdulelah Al Sudani and Sabah Anwer Almasraf	12:50 pm



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Imzahim A. Alwan
Coordinator: Asst. Prof. Dr. Fanar Mansour Abed
Admin: Wassan Mahmood

Session No.: 14
Track: I – Surveying Engineering
Hall Name: Al-Biruni

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
588	Preliminary Quality Assurance of Printgrammetry Technique -3D Modeling from Google Earth 3D Imagery Data	Hussein Kareem Naser, Fanar Mansour Abed, Rana Mozahim Hamdoon	9:00 AM
623	The Demarcation of Iraq-Iran Border at Shalamcha Crossing Border Using Multiple Geomatics Techniques	Wissam Abdual Kadhom Hussein, Hussein Alwan Mahdi Msaewe	9:20 AM
660	Investigating Livability of Residential sectors using TOPSIS Model and GIS a Case Study: South Malta Neighborhood in Duhok city, Iraq	Farsat Heeto Abdulrahman, Soleiman Hosein Foroughi	09:40 AM
725	Land Surface Temperature Estimation Using Remote Sensing Technique: a Case Study Al-Ubaydh Watershed, Al-Anbar Province, Iraq	Russull Abd Al-Mjeed, Mufid Alhadithi, Wadhah Amer Hatem, Hussain Majeed	10:00 AM
772	Convolutional Neural Networks and Cellular Automata Integration for Predicting Agricultural Lands Using Landsat Images: A Case Study of Baghdad	Marwa Razzaq Eia, Mamoun Ubaid Mohammed, Hayder A. Alkanaani	10:20 AM
Coffee Break			11:00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Abdulhassan A. Karamallah
Coordinator: Asst. Prof. Dr. Mohammed A. Nema
Admin: Dr. Sarmad A. Abdul-Hussain

Session No.: 15
Track: II – Mech. Engr. / Thermofluids and Aero.
Hall Name: Munthir Al-Druby

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
629	Experimental Study of by Natural Convection Heat Transfer on an Enclosure Partially Filled Porous Medium heated from Below by Constant Heat Flux	Fouad Jawad Zachi, Luma Fadhil Ali	9:00 AM
654	Investigation of Thermo-Hydraulic Characteristics of Water Flow Circular Tube with Different Shapes of Spiral Insert	Wael Najm Abdullah, Ali Gholam, Ahmed Al-Obaidi, Basim Freegah, Qasim Mahdi	9:20 AM
783	Estimating of Thermal Loads for a Parked Car Cabin Under Direct Sunlight in a Hot and Dry Climate; Iraq case of Study	Hasan Abbas Hussein, Iassam M Ali Aljubury	9:40 AM
493	Mixed Convection in an open lid -Driven Cavity Attached with a Rectangular Channel	Amal Abdalrazaq Abd hussien, Ahmed Kadhim Hussien	10:00 AM
776	Study the Effect of Curved Edges on the Aerodynamics Performance of Suction Slot	Sara Fawzi, Anmar Hamid Ali	10:20 AM
Coffee Break			11:00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Qasim Saleh Mahdi
Coordinator: Asst. Prof. Dr. Luma F. Ali
Admin: Dr. Wail S. Sarsam

Session No.: 16
Track: II – Mech. Engr. / Thermofluids and Energy
Hall Name: Munthir Al-Druby

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
756	Experimental Investigation of Thermal Problem of Dry Friction Brake using Different Friction Materials	Aliyaa Q.Mohammed, Ihasn Y. Hussian, Oday I. Abdullah	11:30 AM
762	Numerical Simulation of Dry Friction Clutch Thermal Behavior with Different Friction Material	Nasr A. Jabbar, Ihasn Y. Hussian, Oday I. Abdullah	11:50 AM
590	Thermal Performance of Flat Plate Solar Water Collector Using Air Bubble Injection	Sarah Abbas Jawad, Zeina Ali Abdul Ridha, Farhan Lafta Rashid	12:10 PM
632	Optimal Characteristics of Wind Turbine to Maximize Capacity Factor	Ali M. Rasham, Mohammed Khalil Hussain, Makki.H.Majeed	12:30 PM
559	Feasibility Study on Hydro Power Plant Performance Enhancement: Real Case Study	Firas Basim Ismail, Salah M. Khaleel, Muhammad A. M. Khairuddin, Nizar F.O. Al-Muhsen	12:50 PM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Muhsen J. Jweej
Coordinator: Asst. Prof. Dr. Waleed K. Khairi
Admin: Asst. Lec. Ban H. Kassab

Session No.: 17
Track: II – Mech. Engr. / Applied Mechanics
Hall Name: Meeting Hall – Mech. Engr. Dept

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
607	Numerical Study on the Factors Affecting the Speed of Cleaning the Bottom of the Well	Ali S. Gholam, Mohammed H. Alhammedo, Hassan Abdul Hadi Abdul Hussein	9:00 AM
511	A Tracking MPC for a Class of Linear Discrete System	Rawand E. Jalal, Mariwan R. Faris	9:20 AM
502	Cascade Position - torque Control Strategy Based on Function Approximation Technique (FAT) For Flexible Joint robots	Hayder F.N. Al Shuka, Burkhard Corves, Ehab N. Abbas	9:40 AM
541	Uniform and Non-Uniform Thermal Buckling Analysis of Laminated Plates Using Five-Variable Refined Theory	Hussien Atee Hashim, Ibtehal Abbas Sadiq	10:00 AM
793	Sliding Mode Control Based on High - Order Extended State Observer for Flexible Joint Robot Under Time Varying Disturbance	Kamal Rsetam, Mohammad Al-Rawi, Zhenwei Cao, Zhihong Man	10:20 AM
Coffee Break			11:00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Hussien Salim Ketan
Coordinator: Asst. Prof. Dr. Basim Sh. Bachi
Admin: Asst. Prof. Dr. Iman Q. Alsaffar

Session No.: 18
Track: II – Mech. Engr. / Manufacturin & Materials
Hall Name: Meeting Hall – Mech. Engr. Dept

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
532	Preparation of Functionally Graded Al-Fe alloy by Mechanical Mold Vibration	Haydar Al-Ethari, Baraa H. Al Khaqani	11:30 AM
614	Evaluation of Physical characterizations of an Al-Matrix Composite Material Enhanced with TiO ₂ Particles Manufactured by Powder	Hussein Ali Hussein, Rehab H.Khanjar, Suhair G. Hussein	11:50 AM
470	Investigation of Mechanical and Microstructural Characteristics of Friction Stir Spot Welded Joints of Aluminum Sheets	Mohanad Al-Ani	12:10 PM
548	Effect of Adding Nanoparticles on Material Removal Rate for Composite Materials in Milling Process	Athraa A. Ridha, Saad K. Shather, Mostafa A. Rajab	12:30 PM
790	Selection of Welding Process to Small Storage Tank by QFD and Multi Criteria Method	Kawakib A. K. Al- Mendw, Qasim M. Doos	12:50 PM
787	Selection of Welding Process to Large Scale Project On Site by QFD and Multi Criteria Method	Kawakib A. K. Al- Mendw, Qasim M. Doos	1.10 PM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Kais S. Ismail
Coordinator: Asst. Prof. Dr. Basim M. Hassan
Admin: Mr. Saifuldeen A. Mohammed

Session No.: 19
Track: III- Electrical Engineering
Hall Name: Hawawei - Electrical Eng. Dept.

Keynote Lecture	Lecture Title	Keynote Speaker Details	Time
	The Iraqi Electrical System Between Reality and Challenges	Operation and Control Office / Ministry of Electricity	9:00 AM

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
484	Performance Improvement of Electrical Distribution System Using Photovoltaic Generation based on Particle Swarm Optimization	Ali Mahmood Hussein, Kanaan Ali Jalal	10:00 AM
701	Design and Technical Analysis of High Voltage Direct Current (HVDC) for Iraqi 400kV Grid	Zainab Nadhim Abbas, Firas Mohammed Tuaimah	10:20 AM
769	DC Power Supply Based on Artificial Neural Networks Used in Cathodic Protection for Water Carrying Pipeline for Electricity Station	Kanaan A. Jalal, Waleed H. Habeeb	10:40 AM
Coffee Break			11:00AM
730	Reduction of Capacitor Voltage Ripple in Modular Multilevel Converter Using Power Decoupling Channels	Enaam A. Ali, Jafar H. Alwash, Turki K. Hassan	11:20 AM
697	Design of an LLC Resonant DC-DC Converter for A Stand-Alone PV Generation System with a comparative study of P&O and INC MPPT algorithms	Mohanad Kh. Alabdullah, Ahmed A. Allu	11.40 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Tarik Zeyad Ismaeel

Coordinator: Dr. Bilal Rabah

Admin: Eng. Ghassan Adel

Session No.: 20

Track: Electronics and Communication Engineering

Hall Name: Common Room – Elect. Engr. Dept.

	Lecture Title	Keynote Speaker Details	Time
Keynote Lecture	Practical Measurements for Microwave and RF Circuits using a Vector Network Analyzer (VNA)	Dr Ghassan Nihad Jawad/ Electronics and Communications Eng. Dept./ University of Baghdad	9:00 AM

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
726	An Eight-Element Multi-band MIMO Antenna system for 5G Mobile Terminals	Muhannad Y. Muhsin ¹ , Ali J. Salim, and Jawad K. Ali	10:00 AM
624	Design and Analysis of Two Elements Reconfigurable Ultra-Wideband Multi Input Multi Output (UWB-MIMO) Antenna for Wireless Applications	Abdullah A. Jabber and Ghada A. Shadeed	10:20 AM
751	Design of Compact Triple-Band Dipole Antenna for Wearable Devices	Aya N. Alkhafaji, Jawad K. Ali, and Sinan M. Abdulsatar	10:40 AM
Coffee Break			11:00 AM
555	Theoretical Investigation of a Nano Scale All-Optical 1 × 2 Demultiplexer	Saif Hasan Abdulnabi and Mohammed Nadhim Abbas	11:20 AM
583	Multi-Channels Radio-over-Fiber System Based on Direct Detection Method	Ismael Shanan Desher and Saifuldeen A. Mohammed	11:40 AM
775	A Simplified Adaptive Digital Predistorter for a High Power Amplifier with Memory Effects Based on Direct Learning Architecture	Mohannad A.M. Al-Ja'afari, Laith F. M.H. Al-Rammahi, Firas Abedi, Hussein M. H. Al-Rikabi, and Gurjot Singh Gaba	12:00 AM
782	Visual-Infrared Image Monitoring System for Moving Object Detection, Classification and Tracking using Deep Learning Technique	Maad Issa AL Tameemi, Bashra Kadhimi Oleiwi	12:20 PM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Asst. Prof. Dr. Alaa M. Abdul Hadi
Coordinator: Asst. Prof. Ahlam Hanoon Shnain
Admin: Dina Abdulkareem Abdulqader

Session No.: 21
Track: III- Computer Engineering
Hall Name: P.G. Hall 2- Electrical Eng. Dept.

Presentation Schedule of Contributory Papers

Thursday, November 25 th , 2021 (2 nd Day)			
Paper No.	Paper Title	Authors Details	Time
547	Using NARX algorithm and Gaussian process to predict the losses data of GPS receiver	Nawras K. Ahmed, Sameir A. Aziez, Ali Y. Khenyab	09:00 AM
587	Modal analysis of tunable CPM-MZI pulse compressor	Nada F. Noori, Baraa H. Mutar, Tahreer S. Mansour	09:20 AM
612	Design and construct Nested Double Clad Multimode Fiber Mach Zehnder Interferometer using pulsed laser for chemical materials sensing	Asmaa. A. Abdul Wahhab, Tahreer .S. Mansour	09:40 AM
626	Sentiment Analysis in Arabic Language using Machine Learning: Iraqi Dialect Case Study	Hussein abdulsahib Nassrullah, Mohammed abdulsahib Nassrullah, Wameedh Nazar Flayyih	10:00 AM
750	Designing an Autonomous Robot Prototype for Detecting Traffic Violations	Ali Jafer Mahdi, Zina Abd Al Hussein Saleh, Fatimah Hasan Ridha	10:20 AM
770	Application of Multi-class Deep Learning Technique In Detection of Covid-19 And Other Four Lung Diseases Using X-ray Images	Teba salim Mohammed, Oday A.L.A Ridha	10:40 AM
Coffee Break			11:00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Basma Abbas Abdulmajeed
Coordinator: Asst. Prof. Hayder Abdulkareem Rasheid
Admin: Asst. Lect. Zaid Waadulla Rashad

Session No.: 22
Track: IV – Chemical & Environmental Engineering
Hall Name: Meeting Hall - Chemical Engineering Department

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
542	Preparing Biochar-filter sand permeable reactive barrier for removal of Phenol from contaminated groundwater	Marwa Fahmi, Ghayda Al Kindi, Jawad Al Rifaie	9:00 AM
577	Production and Investigation of a new effective and safe hand antiseptic	Naba Saeed Hasoon, raghad fareed Almilly	9:20 AM
635	Extraction of Essential Oil from Eucalyptus Leaves by Combination of Hydro-distillation and Ultrasound-assisted Extraction Techniques	Nagham Al-khirsan, Atheer Al-yaqoobi	9:40 AM
734	Compartmental Models for the Electrolytes Age Distribution with and without Air Flow in the Electrochemical Mixed Flow Reactor	Raghad S. Mahmood, Ammar S. Abbas	10:00 AM
740	Mathematical Modeling on Reverse Cooling Spray Tower	Ekhlas A. Salman, Hasan F. Makki	10:20 AM
797	Fabrication of Carbon Cloth/Polyaniline Nano-Titanium Di-Oxide Composite Electrodes for Enhancement the Performance of Dual Chambered Microbial Fuel Cells	Noor Fadhil Khalil, Ali Mousa Ridha, Mahmood K. H. Al-Mashhadani	10:40 AM
Coffee Break			11:00 AM



Ministry of Higher Education & Scientific Research University of Baghdad - College of Engineering



8th Engineering and 2nd International Conference for College of Engineering – University of Baghdad 24 – 25 November / 2021

Chairman of the Session: Prof. Dr. Najwa Saber Majeed
Coordinator: Lec.Dr. Farqad Ali Hadi
Admin: Eng. Sarah Shakir Mahmood

Session No.: 23
Track: IV – Chemical & Petroleum Engineering
Hall Name: Meeting Hall - Petroleum Engineering Department

Presentation Schedule of Contributory Papers

Thursday, November 25th, 2021 (2nd Day)

Paper No.	Paper Title	Authors Details	Time
644	A Kinetic Study of Hkust-1 As Gas Storage for LPG Vehicle in Iraq	Mohammed Sattar, Rana Alrubaye	9:00 AM
659	Prediction of Pore and fracture pressure Using Well Logs in Mishrif Reservoir in an Iraqi Oilfield	Raed Hameed Allawi, Mohammed S Al-Jawad	9:20 AM
694	Upgrading of Heavy Fuel Oil using Microwave Radiation in an Innovative Way Assisted with Graphene Nano-Catalysts	Raheek I. Ibrahim, Farooq Al-Sheikh, Hussein W. Khaled, Sajad A. Muhammed, Hodayfa B. Khairi	9:40 AM
703	Enhancement viscosity reduction and API of Iraqi heavy Crude Oil by nanoparticles	Tariq Mohammed Naief, Eynas Muhamad majeed	10:00 AM
738	Using WO ₃ /AlPO ₄ as a Solid Catalyst for the Transesterification of Waste Edible Oils	Ehab Borhan Yasseen, Hayder AK Aljendeel	10:20AM
780	Optimization of Gas Lift Production of Oil Wells	Mohammad Jawad Hamed Al-Abadi, Dhifaf Jaafar Sadeq, Hussain Amar Odah, Mohammad salim Reshk	10:40 AM
	Coffee Break		11.00 AM