



**Program 15th International Scientific Conference,
Hosted by the Iraqi Mathematical Society at the University
of Zakho, Kurdistan Region – Iraq**

Held under the slogan

**Integration Between Mathematics and Science : The Key to
Scientific and Technological Progress in the Disciplines Of
(Mathematics, Statistics, Computers and Physics)**

Duration February 19-20, 2025

Location	Activity	Time
First day: Wednesday, February 19, 2025		
Conference Hall	Registration	9:00 – 10:00
Conference Hall	Opening Ceremony <ul style="list-style-type: none"> • National Anthem of the Republic of Iraq • Recitation of Verses from the Holy Quran • A Moment of Silence: Recitation of Surat Al-Fatiha in Memory of the Martyrs • Welcome Address by the Dean of the College of Science, University of Zakho • Address by the President of the Iraqi Mathematical Society • Introductory Film about the Society 	10:00 – 10:15
Conference Hall	First Session <i>Session Chair:</i> Dr. Abbas Hassan Taqi, College of Science, University of Kirkuk <i>Rapporteur:</i> Prof. Dr. Suhair Mohammed Zaki Abdul Samad, Department of Computer Science, Technological University Speaker 1: Dr. Azad Najjar, The American University of	10:15 – 11:45





	<p>Kurdistan</p> <p><i>Topic: Interface Designing Between an Artificial Heart and the Human Body</i></p> <p>Speaker 2: Assist. Prof. Dr. Bootan Rahman, University of Kurdistan Hewlêr</p> <p><i>Topic: The Language of the Universe: How Mathematics Connects Us All</i></p>	
Coffee Break		11:45 – 12:00
Conference Hall	<p>Second Session</p> <p><i>Session Chair:</i> Prof. Dr. Burhan Fakhruddin Jumaa, College of Computer Science and Information Technology, Kirkuk University</p> <p><i>Rapporteur:</i> Assist. Prof. Dr. Ismael Ali Ali, College of Science, Zakho University</p> <p>Speaker 3: Prof. Dr. Suhair Mohammed Zaki Abdul Samad, Department of Computer Science, Technological University</p> <p><i>Topic: Digital Transformation in Project Management: Steps to Success</i></p> <p>Speaker 4: Dr. Alaa Khalif Jahil, College of Education for Pure Sciences, Dhi Qar University</p> <p><i>Topic: Gödel's Two Incompleteness Theorems and Their Impact on Mathematics</i></p>	12:00 – 13:30
Lunch		13:30 – 15:00
Second day: Thursday, February 20, 2025		
Conference Hall	Registration	8:30 – 9:00
Halls -1 4	Sessions by Trucks (Mathematics, Computers and Physics)	9:00 – 11:00
Coffee Break		11:00 – 11:30
Conference Hall	<p>Closing Ceremony</p> <p>Presentation of Recommendations</p> <p>Distribution of Certificates of Participation and Appreciation</p>	11:30 – 13:00





First day: Wednesday, February 19, 2025

Opening of the conference

- Time: 10:.00 – 10:15 Location: Conference Hall
- National Anthem of the Republic of Iraq
- Verses from the Quran Alkareem
- Reading Surat Al-Fatiha for the souls of the martyrs
- Speech by Ms. Dean of the College of Science / University of Zakho
- Speech of Mr. President of the Iraqi Mathematical Society
- An introductory movie about the society

First Session

Time: 10:15 – 11:45

Location: Conference Hall

Chairman of the session: Dr. Abbas Hassan Taqi / College of Science / University of Kirkuk

Rapporteur: Prof. Dr. Suhair Mohammed Zaki Abdul Samad / Department of Computer Science / Technological University

First Speaker

Dr. Azad Najar / The American University of Kurdistan
"Interface designing between an artificial heart and human body"

Second Speaker

Assist. Prof. Dr. Bootan Rahman / University of Kurdistan Hewler
"The language of the universe: How Mathematics connects us all"





Second session

Time: 12:00 – 13:30

Location: Conference Hall

Chairman of the session: Prof. Dr. Burhan Fakhruddin Jumaa / College of Computer

Science and Information Technology / Kirkuk University

Rapporteur: Assist. Prof. Dr. Ismael Ali Ali / College of Science / Zakho University

Third Speaker

Prof. Dr. Suhair Mohammed Zaki Abdul Samad / Department of Computer Science / Technological University

"Digital Transformation in Project Management : Steps to Success"

Fourth Speaker

Dr. Alaa Khalif Jahil / College of Education for Pure Sciences / Dhi Qar University

"Philosophy Two Godel's Incompleteness Theorems and Their Impact on Mathematics"





Second day: Thursday, February 20, 2025

Track: Mathematics / First Session

Time: 9:00 – 11:00

Location: Hall 1 Chemistry Seminar Hall

Chairman of the session: Dr. Mohammed Jassim Mohammed / College of Education for Pure Sciences / Dhi Qar University

Rapporteur: Prof. Dr. Amal Khalil Hassan / College of Science / University of Basra

#	Research Title	Researchers
1	Neuro-SupraTopological Space and Anti-Supra Topological Space	Riad K. Al-Hamido
2	EWMA-TBE Control Chart for Monitoring Non-Homogeneous Poisson Processes based on Log-Linear model	Hussam Ahmad
3	A Highly Secure Alternative to QTRU cryptosystem	Amna Abdul Karim Sahib Hassan Rashed Yassein
4	Novel Cryptosystem Based on DNA	Atwar A. Aboody Hassan R. Yassein
5	DNA Cryptography Based on NTRU Cryptosystem	Fatimah h Albakaa Hassan Rashed Yassein
6	Study on Intuitionistic Fuzzy Soft Closure Spaces	Dr. Neeran Tahir Abd Alameer Marwa Abd Ali Hussein
7	A Multifaceted Study of COVID-19: Stability analysis, Numerical solution, and Sensitivity Analysis	Hemn Mohammed Rasool Berivan Faris Azeez Mardan Ameen Pirdawood





Truck: Mathematics / Second Session

Time: 9:00 – 11:00

Location: Hall 2 Chemistry Halls

Chairman of the session: Prof. Dr. Shaker Mahmood Rasheed / College of Science / Zakho University

Session rapporteur: Prof. Dr. Wafa Sayed Hassanin / College of Science / Al-Mustansiriyah University

#	Research Title	Researchers
1	On some properties of vague submodules and vague convex modules	Kardo Sulaiman Haso Alias Barakat Khalaf
2	The Dynamic Elements of the Material Point in its Plane Motion from the View of Neutrosophic Logic	Ahmad Youssef Alkhabour
3	An Analytical Innovation of multi-character on Hilbert Algebra via Approach Structure	Ayad J. M. Al-sheibly Boushra Y. Hussein
4	Solving Differential Equations Using Matlab	Safwat Abd Alkadr Mohammed Jasim Mohammed
5	Generation of Pythagorean with two integer Parameters and with a single integer Parameter	Reem Al- ahmed Dr. Abdul Basit Al-Khatib Dr. Basel Al-Arnous
6	The degree of mathematics teachers' use of appropriate teaching practices in light of their possession of twenty-first century thinking skills in the schools of Al-Hasakah city	Manar Hassan Al-Khidr Al-Ahmad





Track: Physics / Third Session

Time: 9:00 – 11:00

Location: Hall 3 Chemistry Halls

Chairman of the session: Dr. Salim Azara Hussein / College of Education / Al-Qadisiyah University

Rapporteur: Assist. Prof. Dr. Nawzad Abdullah Abdulkareem / College of Science / Zakho University

#	Research Title	Researchers
1	Theoretical study of the effect of the etching time temperature on the current density of the etching reaction to prepare porous silicon	Ahmed K. Al-Kadumi Noor. M. Al-Rahime
2	Investigation of the impact of thermal spraying with diverse ceramic powders on the sliding corrosion resistance of (AISI 446) steel alloys.	Ahmed Sobhi Ali Hussein Dr. Yahya Abdulkarim Salman Dr. Idris Aidan Ghadeer
3	Varicose veins treatment using Qbit 980nm laser diode Endogenous Laser Ablation (EVLA)	Asmahan Asaad Mahmoud, Liwaa Hussein Mahdi, Shaymaa Awad Kadhim, Hossam Nazir Nasser
4	Structural and Optical Properties of Zinc Sulphide Thin Films Deposited by Thermal Evaporation Technique	Dr. Saleem Azara Hussein Mohammed Amer Shahid Dr. Hir Shannan Hanash
5	Using of DC Magnetron Sputtering to Prepare Titanium – Doped Aluminum Thin Films and Studying Their Optical and Structural Properties.	Dr. Abdul Hussein Abbas Khudair Mohammed Amer Shahid Mohammed Saleh Habib Haider Moussa Naama
6	Designing Off-Grid Renewable Energy Systems by Using HOMER Software	Kamil M. Yousif Bilind Shukri Sadiq





Truck: Computer and Physics / Fourth Session

Time: 9:00 – 11:00

Location: Hall 4 Chemistry Halls

Session Chairperson: Prof. Dr. Maysa Abdul Ali Khader / Department of Computer Engineering / Technological University

Rapporteur: Prof. Dr. Salma Hamidi Abdullah / Department of Computer Engineering / University of Technology

#	Research Title	Researchers
1	Modeling of thermal gradients through a wall using polystyrene as thermal insulation	Dr.. Tasneem Abdulkarim Muqrash
2	Text Steganography Enhanced by Using RNN Algorithm Secure Communication in IoT Devices with Block chain	Rawaa Hamza Ali Janan Jader Masaed
3	Stress evaluation in different implant crown geometries based on artificial intelligence evaluation in different implant crown geometries based on artificial intelligence	Rawan Mufid Jamil Dr. Aseel Mohammed Sadiq Dr. Valerie Stanislavage Lisavec

Chairman of the session: Prof. Dr. Nawzad Abdullah Abdulkareem / College of Science / Zakho University

#	Research Title	Researchers
1	Effect of size on the absorbance coefficient of InGaN quantum dots	Dr. Jamal Nasser Jaber Alaa Hussein Ali
2	Using The Thermal Evaporation Method to Prepare Thin Films of Tin Selenide and Studying Their Structural and Optical Properties.	Dr. Saleem Azara Hussein Yousif Abbas Jassim
3	Preparation of Cobalt Oxide Thin Films by Chemical Spray Pyrolysis and Study Their Optical Properties	Dr. Azhar Anad Hassan Hajar Kazim Asmaa Nizar Saleh





Recommendations Committee

1. Dr. Noori Farhan Al-Mayahi / College of Science / Al-Qadisiyah University .
2. Dr. Saleem Azara Hussain / College of Education / Al-Qadisiyah University
3. Dr. Maysa Abd Ali Khudair / Department of Computer Science/ Technological University
4. Prof. Dr. Burhan Fakhrudin Jumaa / College of Computer Science and Information Technology / University of Kirkuk

