



College of Education for Pure Science

Department of Mathematics

Graduation Projects (2025-2026)

N	Student Name	Supervisor's Name	Project Title
1.	Maryam H. Yasin	Prof. Dr. Ammar Seddiq Mahmood	Lucas Numbers
2.	Hala. N. Fadil	Prof. Dr. Ammar Seddiq Mahmood	Perrin Numbers
3.	Fatima F. Hamid	Prof. Dr Ammar Seddiq Mahmood	Padovan Numbers
4.	Asma Fares Mohammed	Prof. Dr.Enas Al.Azwo	The role of the teaching staff of the College of Education for Pure Sciences in promoting sustainable learning from their students' perspective
5.	Rania Abdullah	Prof. Dr.Enas Al.Azwo	The attitude of mathematics students in the College of Education for Pure Sciences towards artificial intelligence applications and its relationship to their mental control

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6.	Fatimah Jwad kadim	Prof. Dr. Alaa Abdulraheem Hammodat	Concepts in Fuzzy Mathematics
7.	Tabark Omer Moayed	Prof.Dr. Alaa Abdulraheem Hammodat	Cayle Hamilton's theorem and its applications in linear algebra and complex analysis
8.	Toqa Feras Hazem Ahmad Alneime	Prof.Dr.Nada Yassen Kasm Yahya	NEW RESULTS OF CODING THEORY IN PG (2,2)
9.	Ayman Khaled Hekmat Qasim Al-Azzawi	Prof.Dr.Nada Yassen Kasm Yahya	ON CONSTRUCTION OF CODING THEORY IN PG (2,5)
10.	Hussein Bashir Abdullah Fathi Aboush	Prof.Dr.Nada Yassen Kasm Yahya	APPLICATION OF CODING THEORY IN PG (2,3)
11.	Ahmed Abd Ahmed Omer Alsabeawi	Prof.Dr.Nada Yassen Kasm Yahya	NEW EXAMPLES OF CODING THEORY IN PG (2,4)
12.	Naktal Mahmoud Fathe	Assis. Prof. Dr. Sulaiman Ahmed Younis Al-Mola	**The Level of Achieving Quality Education as a Sustainable Development Goal among Mathematics Department Students from Their Perspective
13.	Harith Layth Abdullah	Assis. Prof. Dr. Sulaiman Ahmed Younis Al-Mola	The Extent to Which Mathematics Department Students Use and Employ Artificial Intelligence Tools
14.	Daham Saeed Eid	Assis. Prof. Dr. Sulaiman Ahmed Younis Al-Mola	Mathematical Communication among Mathematics Department Students and Its Relationship to Some Variables
15.	Abdul Rahman Abdul Azeem Jassim	Assis. Prof. Dr. Asim Ahmed Khaleel	The Level of Mental Motivation among Students of the College of Education for Pure Sciences
16.	Bushra Abdulfatah Omar	Assis. Prof. Dr. Asim Ahmed Khaleel	The Level of Logical Thinking among Second-Grade Intermediate Female Students in the City of Mosul
17.	Duha Ahmed Abdul Ilah	Assis. Prof. Dr. Asim Ahmed Khaleel	The Level of Cognitive Motivation among Students of the College of Education for Pure Sciences at the University of Mosul

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18.	Abdulhamid Luqman Mahmood	LEC. Dr. Ahmed Hussein Mohammed	Generalized Fractional Integral Operator Based on the Riemann–Liouville Kernel and the Mittag–Leffler Function
19.	Ahmed Khazal Mahmood	Lec. Dr. Ahmed Hussein Mohammad	A Generalized Fractional Integral Operator with Mittag–Leffler Kernel and Its Neutral Element
20.	Noah Abdulhamid Ibrahim	Lec. Dr. Ahmed Hussein Mohammed	Differential Subordination, Superordination, and Sandwich Results for Analytic Univalent Functions Associated with the Generalized Operator $A_{(\theta,n)}^\mu$
21.	Sumaya Wahid Muhammad Sheikho	Lec. Iman Hashim Najm	Solving nonlinear partial differential equations using the homotopian perturbation method
22.	Aya Bashar Nouri Taha Ali	Lec. Iman Hashim Najm	Solving ordinary differential equations using the smart transform
23.	Aya Younis Abdul Jabar	Assist. Lec. Israa Adnan Najm	Zagreb Indices in graph theory
24.	Riam Ziyad Tariq	Assist. Lec. Israa Adnan Najm	Some Matrices in Graph Theory
25.	Saja Layth Waeed	Assist. Prof. Dr. Ali A. Alabdali	Cryptography using quasi group
26.	Afnan Ahmed Thannoon	Assist. Prof. Dr. Ali A. Alabdali	The geometric representation of the groups by Cayley graph
27.	Fatima Hamed Ahmed	Assist. Prof. Dr. Junaid Idrees Mustafa	Integrable Systems: An Introduction
28.	Mustafa Luqman Sultan	Assist. Prof. Dr. Junaid Idrees Mustafa	Applications of the One-Dimensional Wave Equation
29.	Amer Fatahe Jassm	Lec. Hanan Salim Mohammed	Magic Squares and Their Applications
30.	Mizar Mahmood Fathi	Lec. Hanan Salim Mohammed	Standard Young Tableaux and Their Method of Calculation
31.	Bushra Ali Mahmoud Farih	Assist. Prof. Dr. Amal Jasim Mohammed	Stability in differential equation
32.	Anfal Abdulaziz Khazal	Assist. Prof. Dr. Amal Jasim Mohammed	Lorenz's system and its mathematical analysis

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33.	Ghufran hassan younis	Assist. Prof. Dr. Baedaa Suhall Abdullah	Alpha star _open set
34.	Omar salem mohammed	Assist. Prof. Dr. Baedaa Suhall Abdullah	Separation axioms BY using alpha star
35.	Wasan hassein ali	Assist. Prof. Dr. Baedaa Suhall Abdullah	Alpha star continuous function
36.	Ammar Yasir Mohammed	Lec. Dr. Abdulrazzaq Talal Abed	Studying numerical solutions to nonlinear initial value problems using the ZZ transform and Kalla's decomposition method
37.	Saad Ahmad Ramadhan	Lec. Dr. Abdulrazzaq Talal Abed	Studying numerical solutions to nonlinear initial value problems using the normal transformation method and the Adomin decomposition method
38.	Duraïd Abdulamir Najim	Lec. Dr. Abdulrazzaq Talal Abed	Studying numerical solutions to nonlinear initial value problems using Sumodo's decomposition method
39.	Manar Mohammed Ahmed	Assist. Prof. Dr. Ghanim Mohammed Saleh Abdullah	Study of the flow of volcanic domes with Newtonian properties on horizontal surfaces
40.	Obaida Saleh Mohammed	Assist. Prof. Dr. Ghanim Mohammed Saleh Abdullah	Studying and processing the flow of volcanic domes with Newtonian properties on horizontal surfaces using artificial intelligence
41.	Ammar yaser abd al haq	Assist. Prof. Dr. Ghanim Mahmood Dhaher	Estimate the parameters of exponential distribution using maximum likelihood and moment methods
42.	Nedaa Heusen Mahmood	Assist. Prof. Dr. Ghanim Mahmood Dhaher	Introduction of Multivariate Normal distribution
43.	Amna kabas Ghanm	Assist. Prof. Dr. Lamiaa Hazim Saadoon Al-Taee	Approximate solutions of boundary value problem
44.	Abdaalla MAKdad Abdaalla	Assist. Prof. Dr. Lamiaa Hazim Saadoon Al-Taee	The solution of integral equations by using approximate method
45.	Fatima Ayad Ali	Assist. Prof. Dr. Lamiaa Hazim Saadoon Al-Taee	The solution of integral equations by using transform Shehu

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46.	Mahrousa Wagdy Mohamed	Lec. Dr. Naseer Sabah Abdullah	Fluid Flow Analysis
47.	Saad Muhammad Taha Muhammad	Lec. Dr. Naseer Sabah Abdullah	Dimensionless Analysis in Fluid Mechanics
48.	Wiam Hassan Mohammed	Assist. Prof. Dr. Younus Hazim Ismael	Normal distributions using the R statistical language
49.	Aisha Khairi Hamdoun	Assist. Prof. Dr. Younus Hazim Ismael	Methods for compositing the variance and covariance matrix in a multivariate normal distribution
50.	May Saleh Mohammed Al-Rashed	Assist. Prof. Dr. .Hussein obaid dahawi	The level of sustainable thinking among female intermediate school students in mathematics
51.	Ahmed Ayman Raad Ibrahim	Assist. Prof. Dr. Hussein Obaid Dahawi	The use of artificial intelligence applications in teaching and learning mathematics from the students' perspective
52.	Nashat Naji Khalil Ibrahim	Assist. Prof. Dr. Hussein Obaid Dahawi	The level of skillful thinking among intermediate school students
53.	Rehab Ahmed Khidr	Assist. Lec. Dilshad Qasim Hamza	The Cauchy Integral Formula and It's Applications in Complex Function Analysis
54.	Amelia Farid Jibro	Assist. Lec. Dilshad Qasim Hamza	Representation of Analytic Functions Using Taylor and Laurent Series and Their Applications in Solving Mathematical Problems
55.	Jamal Hassan Mohammed Salih	Assist. Lec. Dilshad Qasim Hamza	Analysis of Complex Functions Using the Complex Fourier Transform
56.	Nisreen Salem Mohammed	Assist. Lec. Zainab abdulateef Rasheed	Solving Mathematical Problems Using Intelligent Algorithms (Bat Algorithm)
57.	Abdurrahman Marwan Shakir	Assist. Lec. Zainab abdulateef Rasheed	Particle Swarm Optimization (PSO) Algorithm and Its Applications in Solving Optimization Problems

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58.	Jasim Mohammed Salih	Assist. Prof. Dr. Sabih Wadie Askandar Qaqos	Pairwise b-Continuity in bi-Topological Spaces
59.	Rokan Saeed Dawod	Assist. Prof. Dr. Sabih Wadie Askandar	Pairwise b-Open Sets in bi-Topological Spaces
60.	Ruqaya Yassin Muhammad Mawloud	Assist. Prof. Dr. Sohaib Talal Hasan	Hessian matrix and applications
61.	Samar Hadi Mahmoud Ali	Assist. Prof. Dr. Sohaib Talal Hasan	Introduction to Lie Algebra
62.	Shireen Jassim Mohammed Juwair	Assist. Prof. Dr. Sohaib Talal Hasan	Properties and solutions of KdV equation
63.	Naba Saddam Hussein	Assist. Prof. Dr. Suhaib Abduljabbar Altamir	encryption systems
64.	Ahmed Farhan Hussein	Assist. Prof. Dr. Suhaib Abduljabbar Altamir	Numerical solutions to systems of linear equations
65.	Abdul Qadir Abdul Razzaq Nouri	Assist. Prof. Dr. Suhaib Abduljabbar Altamir	Generating random numbers
66.	Omran abdulrazaq nadhir	Assist. Lec.Tariq hamad abdullah	Engineering systems, axioms, and their applications
67.	Sultan hamaad munawir	Assist. Lec.Tariq hamad abdullah	Values, eigenvectors, and their applications
68.	Ayad khalf sahud	Assist. Lec.Tariq hamad abdullah	The concept of discharge in topological spaces and its basic properties
69.	Sabreen Ahemed	Prof. Dr. Amir Abdulillah Mohammed	On ic-open sets
70.	Hadeel Abdullah Mosa Khalaf	Prof. Dr. Amir Abdulillah Mohammed	A study of int-i-open sets and int-i-continuous functions
71.	Wasan Zamil Younis	Prof. Dr. Kais Ismail Ibraheem	Partial Differential Equations Using Finite Differences
72.	Essam Amjad Ibrahim	Prof. Dr. Kais Ismail Ibraheem	Solving Initial Value Problems Using the Range-Kota Method with the Butcher Table
73.	Mohammed Qasim Mohammed Saleh	Assist. Lec. Shaymaa M. Younus	A study of strongly pure ideals in Ring theory
74.	Abdullah Ahmed Sultan Al-Tai	Assist. Lec. Shaymaa M. Younus	A study of π -regular Rings
75.	Hasan Ali qasem	Lec. Dr. Hiba Shuker Mhmood	Solving ordinary differential equations using the Edomian iterative method

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76.	Ahmad Abd	Lec. Dr. Hiba Shuker Mahmood	Solving ordinary differential equations using the Homotopy analytical method
77.	Mohammed Natiq Jasim	Assist. Prof. Dr. Mohammed Abdulrazaq Mohammed	Survey of Vigenère Cipher Algorithm
78.	Naba Taha Yaseen	Assist. Prof. Dr. Mohammed Abdulrazaq Mohammed	An Expert System for Predicting Recycling Rates Using Fuzzy Neural Networks
79.	Noor Rafid Mahmoud	Assist. Prof. Dr. Mohammed Abdulrazaq Mohammed	Economic Order Quantity (EOQ) Model and Its Extensions: A Mathematical Study for Optimizing Inventory Management
80.	Shaima Khalil Ibrahim	Lec. Dr. Marwan Azeez Jardo	Semi i-open sets in topological spaces
81.	Faraj Muhammad Hamdo	Lec. Dr. Marwan Azeez Jardo	Some types of triple open sets in triple topological spaces
82.	Isa Hussein	Lec. Nadia adnan Abdul Razaq	open sets α in a topological-N space
83.	omar Rafee	Lec. Nadia Adnan Abdul Razaq	Alpha-continuous functions in topological- N spaces
84.	Athra ali	Lec. Najla Sedek Yahia	Moment generating function
85.	Rahma Emad	Lec. Najla Sedek Yahia	T distribution, F distribution, and the relationship between them
86.	Nour Bashar Ahmed Mahmoud	Assist. Prof. Hamsa Dawood Saleem	The world of periodic points and fixed points
87.	Musab Saleem Ahmed	Assist. Prof. Hamsa Dawood Saleem	Frobenius' method for solving differential equations
88.	Abdul Rahman Hassan Hassoun	Assist. Prof. Hamsa Dawood Saleem	Equations of motion (from concept to application)
89.	Israa Tariq Ismail Muhammad	Assist. Lec. Ekram Mohammed Abdullah	A study of the axioms of separation from the identity pattern and its applications in topological spaces
90.	Duaa Saleh Hassoun Dehn	Assist. Lec. Ekram Mohammed Abdullah	Semi-isomorphisms in topological space

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91.	Mohammed Bashar Hashem Ibrahim	Assist. Lec. Ekram Mohammed Abdullah	Studying the basic properties of $\mathbb{R}^n$ -open sets in topological spaces
92.	Abdul Rahman Najm Shehab Ahmed	Assist. Lec. Basma Tariq Fathi	Hybridization of some optimization algorithms
93.	Reem Walid Amin Fathi	Assist. Prof. Dr. Azzam Salah-Aldin Younis	Solving systems of linear differential equations using the differential operator method
94.	Nabil Muhammad Khalil Ahmad	Assist. Prof. Dr. Azzam Salah-Aldin Younis	Solving boundary value problems using bvp4c in MATLAB
95.	Khaled Walid Abdullah	Assist. Prof. Dr. Ahmed Obaid Owaid	Mathematical literacy among second-year middle school students and its relationship to some variables
96.	Muhammad Muwaffaq Ghanem Musa	Assist. Prof. Dr. Ahmed Obaid Owaid	Associative thinking among first-year middle school students and its relationship to some variables
97.	Abdullah Hamid Ali Saleh	Assist. Prof. Taghreed Hamdoun Shukr	Cauchy-Riemann differential equations
98.	Obaida Issa Saleh Abd	Assist. Prof. Taghreed Hamdoun Shukr	Applications of analytical and combinatorial functions