Department of Statistics and Informatics - Research Projects for Fourth-Year Students - Academic Year 2024-2025

	Student Name	Project title	Supervising Professor
1.	Sara Asim Mohammed	☐ The Binomial Logistic Regression Model: Concept and Properties with Application	☐ Asst. Prof. Dr. Muzahim Mohammed Yahya Abdullah Al-Hashimi
2.	Fatima Taha Yaseen	☐ Modeling Count Data under the Problem of Overdispersion with Application	☐ Prof. Dr. Zakaria Yahya Noori Yahya Al-Jamal
3.	Ahmed Mahmoud Mustafa	☐ Bayesian Analysis of the Simple Linear Regression Model	☐ Asst. Prof. Dr. Rikan Abdulaziz Ahmed Abdulrahman
4.	Mohammed Taher Younis	☐ Methods for Detecting Components of Time Series	☐ Asst. Prof. Dr. Haifa Abduljawad Saeed Salim Al-Abdou
5.	Abdulhameed Khalil Ibrahim	☐ A Study on the Properties and Applications of the Mixed Kappa Probability Distribution	☐ Asst. Prof. Dr. Ria Salim Mohammed Ali Yousif Al-Rassam
6.	Zahraa Salim Mohammed	☐ Analytical Capabilities of Selected Artificial Intelligence Platforms: A Comparative Study	☐ Asst. Prof. Dr. Bashar Abdulaziz Majeed Ali Al-Talib
7.	Ibrahim Manal Badee'	☐ Techniques and Enhancements in Markov Chain Modeling	☐ Asst. Prof. Dr. Muthanna Sobhi Suleiman Ibrahim
8.	Sajjad Khudhur Mahmoud	☐ Using the ARIMA Model to Forecast Solar Radiation Time Series in Mosul City	☐ Asst. Prof. Dr. Osama Basheer Shaker Mahmoud Al-Hanoon
9.	Sara Ghazwan Mohammed	☐ Estimation of Performance Indicators in Normally Distributed Production Processes: Control Charts for Variables	☐ Asst. Prof. Dr. Ban Ghanem Omar Ali Al-Aani
10.	Ahmed Noori Saleh	☐ Using the SARIMA Model for Forecasting Seasonal Time Series	☐ Asst. Prof. Dr. Najlaa Saad Ibrahim Ali Al-Sharabi
11.	Khalid Jamal Ahmed	☐ Methods for Detecting and Treating Autocorrelation in Linear Regression Models	☐ Lect. Dr. Mahasen Saleh Abdullah Omar Al-Talib
12.	Asmaa Basheer Hassan	☐ Estimation of Weibull Distribution Parameters with Application	☐ Lect. Dr. Khalida Ahmed Mohammed Abdullah Al-Hamdani
13.	Rasho Kati Boku	☐ A Study of the Two-Parameter Exponential Distribution with Application	☐ Lect. Dr. Safwan Nadhim Rashid Khalil Al-Ukkash

14.	Reeman Duraid Taha	☐ Determining the Reorder Point in Purchasing Models	☐ Lect. Dr. Zina Mudher Yahya Abdullah Al-Bazzaz
15.	Nada Ahmed Saleh	☐ Applying Cluster Analysis and Statistical Methods to Identify Key Factors Affecting Diabetic Patients in Nineveh Governorate	☐ Lect. Dr. Mahmoud Mohammed Taher Younis Ahmed Al-Abbadi
16.	Sajjad Ali Asghar	☐ Analysis of Variance for the Completely Randomized Block Design (CRBD)	☐ Lect. Dr. Wissam Waadallah Saleem Amin Al-Hayali
17.	Shurooq Rakan Mahmoud	☐ Forecasting the Water Temperature of the Tigris River in Mosul City	☐ Lect. Dr. Omar Salim Ibrahim Amin Al-Hayali
18.	Haneen Bashar Mustafa	☐ Statistical Simulation of Selected Statistical Distributions Using R Software	☐ Lect. Dr. Zaid Tariq Saleh Abawi Al-Khalidi
19.	Ali Maher Zaki	☐ Forecasting Savings Data Using the ARIMA Model	☐ Lect. Dr. Noursel Ahmed Zain Al-Abideen Mohammed Qariaghd
20.	Abdulrahman Abdullah Khalifa	☐ Using Logistic Regression to Predict Chronic Diseases	☐ Lect. Dr. Mohammed Qasim Yahya Suleiman Al-Awjar
21.	Saleh Hadi Ibrahim	☐ Forecasting Population Numbers in Iraq Using Demographic and Statistical Methods	☐ Lect. Dr. Noor Nozat Ahmed Sharif Sayala
22.	Maytham Yousif Hilmi	☐ A Study of the Major Factors Affecting Water Pollution Using Fuzzy Statistical Models	☐ Lect. Dr. Omar Qusay Jasim Mohammed Al-Shibli
23.	Huda Abdulhadi Jasim	☐ Data Exploration Methods in Questionnaire Forms with Application	☐ Asst. Lect. Khairy Badal Rashid Sadiq Al-Rashidani
24.	Aqeel Jasim Hamad	☐ Attribute Control Charts with Application to Defect Count and Defective Ratio Charts	☐ Asst. Lect. Haila Anas Abdulmajid Abdulhadi Al-Omari
25.	Ibrahim Khaldoun Othman	☐ Time Series Forecasting Using Double Exponential Smoothing with Application	☐ Asst. Lect. Israa Abduljawad Saleh Ahmed Al-Ameen
26.	Tayba Awf Abdulrahim	☐ A Study on the Problem of Heteroscedasticity: Testing and Remedies in Regression Analysis	☐ Asst. Lect. Nada Nizar Mohammed Abdullah Al-Obaidi
27.	Hisham Mahmoud Ghazi	☐ Using the Maximum Likelihood Method to Estimate Parameters of the Weibull Process with Application	☐ Asst. Lect. Shaimaa Waleed Mahmoud Mohammed Borzan
28.	Marwan Salim Sadoo	☐ Parametric and Nonparametric Tests: A Comparative Study with Application	☐ Asst. Lect. Rihad Imad Sliwa Yonan Shamni
29.	Amna Ziyad Abdulaziz	☐ Methods for Detecting and Treating Multicollinearity in Linear Relationships	☐ Asst. Lect. Farah Abdulghani Younis Saleh Al-Obaidi

30.	Mohammed Osama Amin	☐ A Study on Noise and Its Relation to the Field of Statistics	☐ Asst. Lect. Rafal Adeeb Othman Mahmoud Al-Hamdani
31.	Naseema Abduljabbar Ali	☐ A Comparison Between Moving Average and Moving Range Control Charts in Quality Control	☐ Asst. Lect. Heba Suleiman Dawood Suleiman Al-Hafidh
32.	Mohammed Sabah Azeez	☐ A Study on Methods for Detecting Multicollinearity in Multiple Regression	☐ Asst. Lect. Ne'am Salim Fadhil Saleem Al-Saffar
33.	Raghad Alaa Rashad	☐ Control Charts and Their Role in Industrial Quality Control Based on Production Variables	☐ Asst. Lect Talal Abdulrazzaq Saeed Sultan Al-Hasso
34.	Ruqayya Mohammed Hassan	☐ Using the Poisson Regression Model to Model Kidney Failure Data	☐ Asst. Lect. Israa Najeeb Saeed Mahmoud Al-Sarraf
35.	Fatima Hussein Ali	☐ Using Statistical Methods to Forecast the Number of Diabetes Cases in Mosul City	☐ Asst. Lect. Sara Mohammed Jamal Al-Deen Hussein
36.	Nada Ibrahim	☐ Using the Maximum Likelihood Method to Estimate the Scale Parameter of the Rayleigh Distribution	☐ Asst. Lect. Hind Adel Ahmed Saeed Qassab Bashi
37.	Hamza Bashar Hassan	☐ Using Ordinal Logistic Regression with Application	☐ Asst. Lect. Mohammed Ibrahim Othman Mohammed Mardini