

Department of Statistics and Informatics - Research Projects for Fourth-Year Students - Academic Year 2023-2024

	Supervising Professor	Project title	Student Name
1.	• Asst. Prof. Dr. Muthanna Sobhi Suleiman	• Statistical Classification of Agricultural Districts in Nineveh Governorate	• Ahmed Bara'a Nadhim
2.	• Prof. Dr. Zakaria Yahya Al-Jamal	• Negative Binomial Regression Model with Application	• Hamad Tareq Hussein
3.	• Prof. Dr. Zakaria Yahya Al-Jamal	• Selecting the Number of Clusters in the K-means Algorithm with Application to Iraqi Banks Data	• Buraq Raad Humaidi
4.	• Asst. Prof. Dr. Rikan Abdulaziz Ahmed	• Some Statistical Methods for Estimating the Parameters of Simultaneous Equation Systems	• Manar Jamal Mohammed
5.	• Asst. Prof. Dr. Hiyam Abdulmajid Hayawi	• Using Time Series Analysis to Forecast the Number of Malignant Tumor Cases in Nineveh Governorate	• Ahmed Mohammed Yaseen
6.	• Asst. Prof. Dr. Haifa Abduljawad Saeed	• Comparing Maximum Likelihood and Least Squares Estimators for Weibull Distribution Parameters with Application	• Haider Ali Mohammed
7.	• Asst. Prof. Dr. Haifa Abduljawad Saeed	• Using Skewed Probability Distributions in Modeling Traffic Data	• Hussein Khairy Ibrahim
8.	• Asst. Prof. Dr. Ria Salim Mohammed Ali	• Mixed Probability Distributions and Their Applications	• Hadeel Ahmed Abdullah
9.	• Asst. Prof. Dr. Ria Salim Mohammed Ali	• A Study on the Properties of Generating Functions	• Ali Shaker Muhyiddin
10.	• Asst. Prof. Dr. Bashar Abdulaziz Majeed Al-Talib	• Evaluating the Extent to Which the Curriculum of the Department of Statistics and Informatics Meets the Needs of Government Institutions in Nineveh: A Comparative Study	• Rahma Amer Mohammed
11.	• Asst. Prof. Dr. Osama Basheer Shaker	• A Comparative Forecasting Performance Study Between ARIMA and RNN Models for Solar Radiation Time Series	• Hassan Akram Mohammed
12.	• Asst. Prof. Dr. Ban Ghanem Al-Aani	• Studying the Impact of Social Media on Academic Achievement of University Students Using Nonparametric Statistical Tests	• Arkan Zuhair Thanoon

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13.	• Asst. Prof. Dr. Muzahim Mohammed Yahya	• The Relief Algorithm for Variable Selection in Regression Models with Application	• Saad Ahmed Mohammed
14.	• Asst. Prof. Dr. Najlaa Saad Ibrahim	• Forecasting Humidity Rates in Nineveh and Basra Using Box-Jenkins Models	• Hala Ibrahim Abdullah
15.	• Lect. Dr. Mahasen Saleh Al-Talib	• Using Principal Components to Handle Missing Data in Multiple Linear Regression Models	• Haider Mohammed Ibrahim
16.	• Lect. Dr. Khalida Ahmed Mohammed Al-Hamdani	• Reliability Systems with Application	• Zainab Elias Khalil
17.	• Asst. Lect. Khairy Badal Rashid	• Calculating Goodness-of-Fit Indices in Structural Equation Modeling with Application Using AMOS	• Ahmed Kazem Mahdi
18.	• Lect. Dr. Safwan Nadhim Rashid	• Outlier Detection Methods with Application	• Noor Mahmoud Hamed
19.	• Lect. Dr. Zina Mudher Yahya	• Using Dynamic Programming to Determine Optimal Inventory Quantity	• Hassan Abbas Hussein
20.	• Asst. Lect. Haila Anas Abdulmajid	• Variable Control Charts with Application to Range and Moving Range Charts	• Sajjad Jabr Abbas
21.	• Lect. Dr. Alaa Abdul-Sattar Dawood Hamodat	• The Impact of Outliers on Regression Analysis Results and Identifying the Best Predictors	• Sarah Thaer Abdulhadi
22.	• Lect. Dr. Mahmoud Mohammed Taher Younis	• Identifying Key Factors Affecting Kidney Failure Using Logistic Regression	• Saja Waad Hadi
23.	• Lect. Dr. Mahmoud Mohammed Taher Younis	• Addressing the Deficiency in Experimental Units: A Comparative Study	• Aisha Abdulkhaliq Mohammed
24.	• Lect. Dr. Wissam Waadallah Saleem	• The Effect of Missing Values on Statistical Analysis of Simple Crossover Design	• Evan Nawwaf Abdulqader
25.	• Lect. Dr. Wissam Waadallah Saleem	• Forecasting Diabetes Cases Using Time Series Models	• Omar Fares Basheer
26.	• Lect. Dr. Omar Salim Ibrahim	• Forecasting Water Quality in a Water Treatment Plant in Mosul	• Shahd Mohammed Abd
27.	• Asst. Lect. Israa Abduljawad Saleh	• A Comparison Between Simple and Double Exponential Smoothing Methods with Application	• Raghda Khairuddin Abdulaziz
28.	• Lect. Dr. Manaf Hazem Ahmed	• Estimating Parameters of the Generalized Extreme Value Distribution Using Nonlinear Least Squares	• Taha Abbas Fares

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29.	• Lect. Dr. Zaid Tariq Saleh	• Kaplan–Meier Estimator of the Survival Function for Leukemia Patients	• Dohaa Uday Nizar
30.	• Lect. Dr. Noursel Ahmed Zain Al-Abideen	• Using Time Series Interference Effect and Comparing It with the ARIMA Model	• Amer Ammi Afdel
31.	• Lect. Dr. Mohammed Qasim Yahya Suleiman	• Statistical Analysis of Factors Leading to Diabetes	• Haneen Mohammed Rasheed
32.	• Asst. Lect. Nada Nizar Mohammed	• A Comparative Study Between Linear Discriminant Analysis and Multiple Logistic Regression	• I'timad Hassan Khudhur
33.	• Asst. Lect. Shaimaa Waleed Mahmoud	• Estimating the Transition Matrix of a Three-State Markov Chain	• Naba Falah Hassan
34.	• Asst. Lect. Rihad Imad Sliwa	• Applying Cronbach's Alpha Coefficient to Test the Reliability of Questionnaire Components	• Nusrah Mohammed Najm
35.	• Asst. Lect. Farah Abdulghani Younis	• A Study of Errors and Their Impact on Regression Analysis Results	• Hassan Falah Hassan
36.	• Asst. Lect. Heba Suleiman Dawood	• Comparing Forecasts from Box–Jenkins Model and Exponential Smoothing	• Abdulilah Ali Akbar
37.	• Asst. Lect. Noor Nozat Ahmed	• Analysis of the Number of Commercial Establishments in Iraqi Provinces Using a Cluster Method	• Amina Anmar Nadhir
38.	• Asst. Lect. Noor Nozat Ahmed	• Statistical Analysis of the Causes of Kidney Failure in Patients in Mosul City	• Iyad Mohammed Marai
39.	• Asst. Lect. Rafal Adeeb Othman	• The Exponential Distribution and Its Relationship to Other Probability Distributions	• Amina Ali Akbar
40.	• Asst. Lect. Rafal Adeeb Othman	• Forecasting Using Exponential Smoothing in Time Series	• Rania Adnan Abdulaziz
41.	• Asst. Lect. Ne'am Salim Fadhil	• Using Logistic Regression to Classify Some Climatic Influences in Nineveh Governorate	• Maha Rafi' Fares
42.	• Asst. Lect. Talal Abdulrazzaq Saeed	• Using Regression to Estimate Sugar Content at Different Temperatures	• Darsin Mohsen Mousa
43.	• Asst. Lect. Omar Qusay Jasim	• Predictive Performance of Statistical Learning Models on Medical Data	• Mustafa Shakeeb Younis
44.	• Asst. Lect. Noora Suhail Ismail	• Using Robust Methods to Estimate Regression Parameters	• Amina Nashwan Abdulghani

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45.	<ul style="list-style-type: none">• Asst. Lect. Hussam Waleed Yaseen	<ul style="list-style-type: none">• Applying Linear Programming to Estimate Multiple Linear Regression Coefficients	<ul style="list-style-type: none">• Mustafa Abbas Fares
46.	<ul style="list-style-type: none">• Asst. Lect. Salwa Salahuddin Qasim	<ul style="list-style-type: none">• Studying Factors Affecting Breast Cancer Patients Using Regression Models	<ul style="list-style-type: none">• Rania Yousif Abdulkarim