

Department of Statistics and Informatics - Research Projects for Fourth-Year Students - Academic Year 2020-2021

	Supervising Professor	Project title	Student Name
1.	Dr. Zakaria Yahya Noori Al-Jamal	Enhancing Divisive Clustering with Application	<ul style="list-style-type: none"> • Alaa Abdulaziz Qanbar • Heba Jasim Mohammed
2.	Rikan Abdulaziz Ahmed	Simulating a Single-Channel Service System Using Excel	<ul style="list-style-type: none"> • Ola Sufyan Taha • Sura Taha Suleiman
3.	Rikan Abdulaziz Ahmed	A Study on Factors Affecting Academic Performance from University Students' Perspectives	<ul style="list-style-type: none"> • Noor Osama Yahya • Wafaa Khalil Fathi
4.	Dr. Hiyam Abdulmajid Hayawi	Time Series Analysis and Diagnosis in R Language with Application to the Stock Market	<ul style="list-style-type: none"> • Rasheed Mohammed Radi • Ahmed Abdulhadi Ahmed
5.	Dr. Haifa Abduljawad Saeed	Using Different Methods to Estimate the Reliability Function of the Rayleigh Distribution with Application	<ul style="list-style-type: none"> • Abdulkarim Mohammed Ibrahim • Mohammed Raad Ubaid
6.	Dr. Ria Salim Mohammed Ali Al-Rassam	Estimating the Survival Function for the Truncated Exponential Distribution	<ul style="list-style-type: none"> • Amin Omar Hassan • Maher Ibrahim Rasho
7.	Dr. Bashar Abdulaziz Al-Talib	A Statistical Study on Improving E-Learning Approaches	<ul style="list-style-type: none"> • Ali Hussein Abbas • Bara'a Wissam Abdulghani
8.	Dr. Mahasen Saleh Abdullah	Multicollinearity in Regression: Concept and Treatment	<ul style="list-style-type: none"> • Ali Khalil Ismail • Haider Rifaat Salem
9.	Dr. Khalida Ahmed Mohammed	Studying the Relationship Between Key Failure Time Distribution Functions with Application	<ul style="list-style-type: none"> • Younis Nizar Ahmed • Thaer Elias Mohammed
	Khairy Badal Rashid		<ul style="list-style-type: none"> • Banan Moayad Ali

Department of Statistics and Informatics - Research Projects for Fourth-Year Students - Academic Year 2020-2021

10.		Spurious Regression and Methods for Parameter Estimation Using EViews	<ul style="list-style-type: none"> • Amna Abdulkhaliq Abdul-Sattar
11.	Dr. Safwan Nadhim Rashid	Factor Analysis in SPSS with Application	<ul style="list-style-type: none"> • Abbas Mowafaq Hassan • Zainab Anwar Abdulrahman
12.	Dr. Zina Mudher Yahya	Bernoulli Process with Application	<ul style="list-style-type: none"> • Doman Jasim • Sami Sadiq
13.	Dr. Osama Basheer Al-Hanoon	Forecasting Seasonal Rainfall Data for Rainy Months in Iraqi Provinces Using ARIMA Models	<ul style="list-style-type: none"> • Philip Mazhar Matti • Justin Jamil Benjamin
14.	Dr. Ban Ghanem Omar	Using the White Method to Estimate the Reliability Function of the Weibull Distribution with Application	<ul style="list-style-type: none"> • Muhsina Aref
15.	Haila Anas Abdulmajid	Attribute Control Charts with Application to C Chart and P Chart	<ul style="list-style-type: none"> • Sarah Khalid Yousif • Bara'a Saad Ezzeddine
16.	Alaa Abdul-Sattar Dawood	The Effect of Outliers and Origin Point on Multiple Regression Analysis Results	<ul style="list-style-type: none"> • Safinaz Shakir • Badoor Falah
17.	Shaimaa Shakeeb Mohammed Yahya	Building a Monte Carlo Simulation Model Using Software	<ul style="list-style-type: none"> • Nada Ghassan Khalaf • Maha Khalid Hamed
18.	Mahmoud Mohammed Taher	Studying the Effect of Missing Values on Analytical Results of Latin Square Design with Application	<ul style="list-style-type: none"> • Alaa Ali Abdulghani • Aya Mahfouz Taha
19.	Mahmoud Mohammed Taher	Studying the Impact of Factorial Interactions on Analytical Results of Fusion Experiments with Application	<ul style="list-style-type: none"> • Rafal Ahmed Ali • Maryam Muthanna Abdullah
20.	Wissam Waadallah Saleem	A Comparison Between Three Tests: LSD, Duncan, and Newman-Keuls with Application	<ul style="list-style-type: none"> • Alaa Mohammed Saeed Ismail • Arwa Essam Ibrahim
	Wissam Waadallah Saleem		<ul style="list-style-type: none"> • Manar Amer Saleh

Department of Statistics and Informatics - Research Projects for Fourth-Year Students - Academic Year 2020-2021

21.		Analytical Study of Leukemia Patients in Nineveh Governorate with Application	<ul style="list-style-type: none"> • Jameela Talib Sheikh Mousa
22.	Omar Salim Ibrahim	Forecasting Electrical Conductivity of Tigris River Water Using Time Series	<ul style="list-style-type: none"> • Zainab Ghassan Shareef • Zainab Fares Hazem
23.	Dr. Najlaa Saad Ibrahim	Employing Error Correction Models to Forecast Temperatures in Nineveh	<ul style="list-style-type: none"> • Maha Ziyad Fakhri Saeed • Noor Moneim Fathi
24.	Dr. Manaf Hazem Ahmed	History of Statistics: An Exploratory Study of Its Chronological Development, Key Figures, and Contributions to Other Sciences	<ul style="list-style-type: none"> • Ahmed Mohammed Abdullah • Owaid Awad Karish
25.	Lama Akram Abdullah	Teaching Geometric Features Using the HOG Descriptor for Object Detection	<ul style="list-style-type: none"> • Lumaia Khalil Ibrahim • Reem Younis Anis
26.	Lama Akram Abdullah	Statistical Analysis of the LBP Descriptor for Image Texture Identification	<ul style="list-style-type: none"> • Luay Faez Ghanem • Ahmed Sameer Najm
27.	Israa Abduljawad Saleh	Maximum Likelihood Estimation for Simple Linear Regression Parameters with Application	<ul style="list-style-type: none"> • Noor Al-Huda Abdulazal Abdul-Samad • Noor Al-Huda Fares Ajjam
28.	Farah Abdulghani Younis	Comparing Principal Component Analysis and Least Squares Method to Handle Multicollinearity	<ul style="list-style-type: none"> • Batool Ali Jasim • Maria Maher Jalil
29.	Farah Abdulghani Younis	Outlier Detection and Treatment Methods	<ul style="list-style-type: none"> • Marwa Qader Hassan • Ahmed Saif
30.	Heba Suleiman Dawood	Using R and Sigma Charts for Variables in Quality Control with Application	<ul style="list-style-type: none"> • Hassan Ali Mahmoud Sultan • Abi Laith Ghazi
31.	Heba Suleiman Dawood	Using the Least Squares Method to Estimate Parameters of the Multiple Linear Regression Model with Application	<ul style="list-style-type: none"> • Sura Mahmoud Jarallah • Aisha Ali Ahmed

Department of Statistics and Informatics - Research Projects for Fourth-Year Students - Academic Year 2020-2021

32.	Dr. Zaid Tariq Saleh	Employing Numerical Methods to Estimate Parameters of the Gamma Distribution	<ul style="list-style-type: none"> • Abdulrazzaq Ahmed Faraj • Saadoon Khalaf Sabti
33.	Dr. Noursel Ahmed Zain Al-Abideen	The Weibull Distribution Using MATLAB with Application	<ul style="list-style-type: none"> • Mustafa Aziz Hatthout • Mohammed Alawi Abbas
34.	Dr. Noursel Ahmed Zain Al-Abideen	Using MR Chart for Variables in Quality Control	<ul style="list-style-type: none"> • Ali Ashraf Ali • Abdullah Talib Salem
35.	Noor Nozat Ahmed	Estimating Location Parameters Using Fuzzy Logic – An Applied Study	<ul style="list-style-type: none"> • Yousif Ahmed Khalaf • Najat Ahmed
36.	Rafal Adeeb Othman	Outliers and Their Impact on Time Series	<ul style="list-style-type: none"> • Fares Ishaq Hammoud • Saqr Younis Abdullah
37.	Rafal Adeeb Othman	Factors Affecting Autism in Children	<ul style="list-style-type: none"> • Amani Nabeel Sadeeq • Basma Khulooq Abdulmoneim
38.	Shaimaa Waleed Mahmoud	Employing a Predictive Model for the Occurrence of Hepatitis C Cases in Nineveh Governorate	<ul style="list-style-type: none"> • Haider Muzhaffar Abdullah • Fathi Mahmoud Abdullah
39.	Dr. Mohammed Qasim Yahya	The Impact of E-Learning on Academic Performance of Fourth-Year Statistics Students (Using Regression Analysis)	<ul style="list-style-type: none"> • Ahmed Luqman Mohammed Taher • Jalal Holo Ali
40.	Dr. Mohammed Qasim Yahya	Analyzing Factors Influencing the Increase in Diabetes Cases (Using Regression Analysis)	<ul style="list-style-type: none"> • Abdulaziz Abdulghani Kareem • Mohammed Qusay Abdul-Sattar
41.	Rihad Imad Sliwa	Using the Stepwise Method in Multiple Linear Regression to Derive the Optimal Regression Equation	<ul style="list-style-type: none"> • Mohammed Mahmoud Hussein Mohammed • Atheer Hussein Ahmed Abdullah
42.	Rihad Imad Sliwa	Using the Cox Regression Model to Examine Factors Affecting Patient Survival	<ul style="list-style-type: none"> • Aya Sameer Ismail • Mustafa Ghazi Abd

Department of Statistics and Informatics - Research Projects for Fourth-Year Students - Academic Year 2020-2021

43.	Nada Nizar Mohammed	Building a Discriminant Function Based on Regression Variables	<ul style="list-style-type: none"> • Noor Ahmed Fathallah • Du'aa Ra'fah Adeeb
44.	Nada Nizar Mohammed	Classifying the Linear Discriminant Function in the Presence of Multicollinearity	<ul style="list-style-type: none"> • Niba Ahmed Khazaal • Ghufraan Mohammed Fathi
45.	Hisham Yaseen Abbas	Data Clustering Using K-means and K-medoids: A Comparative Study	<ul style="list-style-type: none"> • Basim Mohammed Salem • Yousif Abdulaziz Ghanem
46.	Hisham Yaseen Abbas	Random Initialization Handling in K-means Clustering Using Kernel Density Estimation	<ul style="list-style-type: none"> • Omar Moan Abduljabbar • Abdulqader Hisham Abdulqader
47.	Neam Salim Fadhil	Time Series Modeling and Building the Optimal ARIMA Model for Seasonal Rainfall Data in Mosul City	<ul style="list-style-type: none"> • Ahmed Salama • Sameer Kareem
48.	Neam Salim Fadhil	Forecasting Seasonal Rainfall in Mosul City Using Exponential Smoothing Models	<ul style="list-style-type: none"> • Aqeel Essam Abd • Amna Moan Abdulmoneim
49.	Talal Abdulrazzaq Saeed	Monitoring Production Variables and Detecting Deviations Using Control Charts	<ul style="list-style-type: none"> • Marwan Mahmoud Mousa • Yasser Ali Saleh