Course description form

1. : Course nameEconometrics1	
Econometrics 1	
2. :code Course Code	
MCNM486	
3. : Semester/Year	
2024-fourth stage/2023/ semester	
4. : Date this description was prepared	
1 / 2/ 2024	
5. :Available forms of attendance	
My presence	
6. :(study hours (total)/number of units (total Number of	
number of units ,45 :Theoretical hours: 30 hours / Practical hours: 3.5 units	
7. (Name of the course administrator (if more than one name is mentioned	
: Amiel Name : M.D. Waleed Ibrahim Sultan Alwaleedsultan502@uomosul.edu.iq	
: tends who Name: M. Salah Fahmy, a young mansalahodesh@uomosul.edu.iq	
: Name : M.M. Muhammad Hamid Ahmed Emailmohammedhamid91@uomosul.edu.iq	

8. objectives Course

:practical	:theoretical
Defining econometrics and explaining the relationship with other sciences	of The student learns about the concept - econometrics
Enabling the student to know the most important basic pillars of econometrics	Explains to the student the objectives of econometrics
ctural The student explains the types of stru equations graphically and mathematically their elasticities And methods for calculating	curriculum, It explains to the student the hypotheses, and pillars of econometrics and its relationship to other sciences
Introducing the student to simple regression and knowing all regression tests	The student solves some steps of econometrics
Enable the student to measure the morale of - variables	Introduction to econometric models
understand and Enabling the student to - understand the concepts related to econometrics, along with the extent to which the student applies econometrics methods and methods in the practical field.	Shows the student the economic model and types of equations
Enabling the student to know the solution to the - on the student's and based ((T, F.R2, R-2) tests practical experience, without giving importance to the subject.	Enabling the student to understand and - to understand what is related
Enabling the student to solve mathematical - exercises for statistical tests	**And work to econometrics**
Enabling the student to solve the mathematical - t exercises for standard tests and other tests tha accompany them	of the The student's awareness **know**
The student can learn about the most important - tests and how to apply them	and role of econometrics in importance practical applications and economic research
Enable the student to measure the effect of	Enable the student to know simple - regression
	the most Enabling the student to know - important economic and statistical tests
	Enabling the student to know the most - important statistical tests

independent variables on the dependent variable by conducting many economic and statistical tests.	Enabling the student to - know the most important standard problems Enables the student - to know the causes of standard problems facing variables

9. learning strategies Teaching and

The strategy	
Interactive lecture, brainstorming, dialogue and discussion statement	The origins and concept of econometrics
discussion Interactive lecture, brainstorming, dialogue and	The relationship between econometrics, mathematics and statistics
Interactive lecture, brainstorming, clarifying the goals and	of econometrics pillars
Interactive lecture and brainstorming	Types of economic models
Interactive lecture, brainstorming, dialogue, and participation in estimating the	multiple determination co efficient (R2)
Interactive lecture, brainstorming, dialogue, and participation in the corrected	Corrected coefficient of and modified coefficient of determination (R-2) and (R-2) determination
Interactive lecture, brainstorming, dialogue, participation in creating and installing	the model, and building the economic relationships of the model
Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and on reporting	the types of structural equations that make up the model or economic model.
Interactive lecture, brainstorming, dialogue and discussion, test	Confidence (F) correlation coefficient and intervals (R) (r)
Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	Simple linear regression equation
Interactive lecture and brainstorming to explain	the Ordinary Least Squares method (OLS).
Interactive lecture, brainstorming, dialogue and discussion	Assumptions of least squares estimators ($B^\wedge \propto^\wedge$)
Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	Bivariate linear economic model
Interactive lecture, brainstorming, dialogue and discussion, assigning tasks and reporting	the economic model on the types of models.
Interactive lecture, brainstorming, dialogue and discussion	Types of functions and flexibility of parameters
Interactive lecture, brainstorming, dialogue and discussion	forecasting in

10 . Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Econometrics concept econometrics of emergence Objectives of econometrics	The student becomes familiar A1 econometrics the concept of with the Explains to the studentB1 origins and concept of econometrics	2 Theore tical	1
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Mathematical application of the most important economic models	The student learns the types of C1 economic models	Practi3 cal	
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	The econometrics theory curriculum and its pillars	The Explains to the student B2 relationship between econometrics, mathematics and statistics	2 Theore tical	2
Short exams Assignment of duty discussions	Auditory methods writing on the blackboard Style of Direct dialogue style reporting Assigning tasks and	Analysis of types of economic models	How to analyze and calculateD1 variables	Practi3 cal	
Short exams Assignment of duty discussions	Auditory methods writing on the blackboard Style of Direct dialogue style reporting Assigning tasks and	Standard processing steps	of the objectives and DefinitionA2 pillars of econometrics	2 Theore tical	3
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Solve equations using the form method reduced	Types of structural equationsB3 Presentation and building of C3 economic relations	Practi3 cal	

Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Formation and installation of the and building economic model relationships	the types of economic showsB4 models	2 Theore tical	
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Reasons and justifications for introducing a random variable	The student learns graphically C4 to calculate and mathematically ways variables	Practi3 cal	4
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Reasons for choosing the least squares method	estimates the The studentB5 coefficient of multiple determination (R2)	2 Theore tical	
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Derivation by substitution method	The student analyzes to derive D2 model parameters	Practi3 cal	5
Short exams Assignment of duty discussions	Auditory methods blackboard Style of writing on the Direct dialogue style Assigning tasks	Types of economic dynamics models	Explain to the student the B6 the coefficient relationship between and (R2) of determination Corrected coefficient of (R-2) determination	2 Theore tical	
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard dialogue style Direct Assigning tasks	deviation Derivation using the method	How to calculate simple C5 regression equation	Practi3 cal	6
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Properties of ordinary least squares	Explains to the student the B7 creating and installing the concept of model and building the economic relationships of the model	2 Theore tical	
Short exams Assignment of	Auditory methods Style of writing on the blackboard	determinants Derivation using	BLUE property How to prove theC6	Practi3 cal	7

Assessment methods	Teaching methods		Learning outcomes		Week
	duty discussions	Direct dialogue style reporting Assigning tasks and			
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Derive linear model OLS method parameters by	the Shows the student how to useB8 types of structural equations that make up the model or economic models	2 Theore tical	8
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	the linear property Derivation of	Prove the linear property C 7 impartiality How to deriveD 3	Practi3 cal	
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	Economic criteria Statistics and measurement	Explain to the student the effect B9 variance and standard deviation of	2 Theore tical	9
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard alogue styleDirect di reporting Assigning tasks and	Exercises on the effects of the confidence interval and the coefficient of determination test	) to test Shows the student how B10 confidence intervals and the (F (r) (R) correlation coefficient	Practi3 cal	
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style Assigning tasks	Statistical criteria for the OLS estimators significance of	the The student learns aboutA3 explanation of the Ordinary Least .method (OLS) Squares	2 Theore tical	10
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style Assigning tasks	Types of elasticities	T- test recognizes theA4 how to mathematically learnsC8 SD calculate	Practi3 cal	
Short exams Assignment of duty discussions	Auditory methods Style of writing on the blackboard Direct dialogue style reporting Assigning tasks and	random Characteristics of a variable	The student learns about the A5 assumptions of least concept and $(B\hat{}\propto\hat{})$ squares estimators	2 Theore tical	11
Short exams Assignment of	Auditory methods Style of writing on the blackboard	Confidence intervals	The student distinguishes E2 between types of functions and their	Practi3 cal	

Short exams Assignment of duty discussions	Writing style on Auditory methods Direct dialogue style the blackboard reporting Assigning tasks and	Forecasting methods	Defines the student's prediction B14 path	2 Theore tical	
Short exams Assignment of duty discussions	Writing style on Auditory methods Direct dialogue style the blackboard reporting Assigning tasks and	Testing the strengths or weaknesses of the standard model	The student learns how to B15 describe the model The student compares the best D7 types of models	Practi3 cal	15

Relative weight %	Class	Calendar a week -appointment	Calendar methods	T
Course evaluation -11				
5	5	15-1 My theory week	Final theoretical report +	1
10	5 5	Week 3	Quiz Short test 1	2
15	10 5	Week 9	Midterm test Theoretical and practical	3
10	5 5	Week 12	Short test 2 Quiz	4
20	20	Practical exam week	Final practical test	5
40	40	A week of theoretical exam	Final theoretical test	
100	100		the total	

12-Learning and teaching resources
. Saifu-Introduction to Econometrics: Dr. Walid Ismail Al-1
Saifu and Dr. -Analytical Econometrics BIM Theory and Application Dr. Walid Ismail Al -2 Ahmed Muhammad Mishal
Damodar N.Gujarati (2004) Basic Econometric Tata Mc Graw -Hill Edition, 4th -3 Edition, New Delhi

practical subject ,Theoretical subject teacher: Dr. Walid Ibrahim Sultan
teacher: Eng. M . Salah F. Saba

millimeter . Mohamed Hamed Ahmed

Dr.waleed ibrahim sultan   and Salah F.Saba and Muhammd H. Ahmed

جامعة الموصل
كلية الزراعة والغابات

Head of the Agricultural   Chairman of the Scientific Committee
Economics Department

الزراعي

Dr . Alaa Muhammad Abdullah, Prof. Dr. Alaa Muhammad Abdullah .Mr

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