Name of the Programme : Master of Commerce
[M.Com]Course Code: COM-601
Title of the course : Basic Econometrics
Number of Credits : 4
Effective from AY : 2022 – 2023

Prerequisites for the course:	NIL	
Objective:	1. To acquire foundational knowledge of regression analysis and develop skills in applying regression models to data. 2. To understand basic knowledge and skills of diagnostic testing concerning regression models. 3. To enable learners to master basic econometric techniques for analysis of cross-section data. 4. To enable learners to acquire basic time series analysis and forecasting skills using econometric and event study methodology.	
Content:	**Unit 1** **Introduction to Econometric Methodology and Regression Analysis** Econometrics – meaning and significance of econometrics in business decisions - Methodology of econometric analysis – Nature and sources of data for econometric analysis – Preparation of data for analysis - Introduction to classical linear regression model - Assumptions of CLRM – Specification and estimation of bivariate and multiple regression models – Hypothesis testing and statistical inference – Properties of least square estimators (BLUE) – Basic model diagnostics using the goodness of fit statistics– Regression terminology – Regression vs. causation – Regression vs. correlation – Reporting the results of regression analysis.	**15 Hours**
	Unit 2 **Econometric Modelling and Diagnostic Testing** Selection of model variables – Selection of functional form of regression – Model selection criteria – Issues in regression modeling - Autocorrelation, Heteroscedasticity, Multicollinearity – Consequences, tests for detection and remedial measures – Model misspecification errors – Types, consequences, and tests of misspecification errors – Errors of measurement and relevant consequences.	**20 Hours**
	Unit 3 **Analysis of Cross-Section Data** Cross-section data – Data considerations and preparation, Sources of cross-sectional data – Cross-section data models - Dummy variables: Nature, ANOVA & ANCOVA Models – Cautions in the use of Dummy Variable – Interaction Effect using Dummy Variable – Applications of Dummy Variables - Seasonal Analysis, Structural breakpoint analysis using dummy variables.	**10 Hours**
	Unit 4 **Analysis of Time Series Data** Time series concepts – Stationarity in time series: Concept, Significance, Tests of stationarity in time series, ACF and PACF functions, Unit root tests, Transforming non-stationary time series	**15 Hours**

	– Econometric modeling and forecasting using time series data – A.R., MA, ARMA and ARIMA modeling – Diagnostics and forecasting using ARIMA – Event study methodology.	
Pedagogy:	Lectures / case analysis / assignments / classroom interaction / lab. Practical problems may be solved using available open source software.	
References/ Readings	1. Asteriou Dimitrious, Stephen Hall, ***Applied Econometrics***, Palgrave Macmillan, New York, 4^{th} edition, 28^{th} May 2021. 2. Cameroon Samuel, ***Econometrics***, McGraw Hill, New York, 2005. 3. Davidson, J, ***Econometric Theory***, Blackwell, USA, 1^{st} edition, 7^{th} April 2000. 4. Goldberger, A.S. ***Introductory Econometrics***, Harvard University Press, Cambridge, 1998. 5. Greene, W. ***Econometric Analysis***, Prentice Hall, New York, 5^{th} edition. 6. Gujarati, D. ***Basic Econometrics***, McGraw Hill, New Delhi, 5^{th} edition, 1^{st} July 2017. 7. Hayashi, F, ***Econometrics***, Princeton University Press, Princeton, 19^{th} November 2000. 8. Pattreson, Kerry, ***An Introduction to Applied Econometric: Time Series Approach***, Palgrave Macmillan, New York, 2000^{th} edition29th June 2000. 9. Ramanathan Ramu, ***Introductory Econometrics with applications***, Thomson South Western, Singapore, 5^{th} edition, 15^{th} March 2005. **10.** Wooldridge, ***Introductory Econometrics***, Thomson-South Western, Singapore, 5^{th} edition, 26^{th} September 2012. **Online Resources:** 1. https://www.youtube.com/user/econometricsacademy 2. https://www.youtube.com/user/patobi1 3. https://sites.google.com/site/econometricsacademy/home 4. https://www.economicsnetwork.ac.uk/teaching/Online%20Text%20and%20Notes/Econometrics 5. https://www.ssc.wisc.edu/~bhansen/econometrics/Econometrics.pdf	

Course Outcomes	Upon completion of the course, learners will be able to: **CO1:** Apply methodology of regression analysis in developing models for data in social sciences. **CO2:** Perform diagnostic tests on regression models and improvise their models. **CO3:** Demonstrate application of dummy variables for varied purposes in the context of cross-section data. **CO4:** Develop basic time series models for forecasting using the ARIMA structure. **CO5:** Apply event study methodology on time series data for research and analytical purposes	

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GOA UNIVERITY				
Exam	November 2023 Examination (Master of Arts in Economics - MAEC)			
College	Goa Business School			
Programme	Master of Arts in Economics			
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Paper	COM-601	Basic Econometrics		
Paper Head	ISA	Max Marks	60	Credits 4

Seat No	Student Name	ISA Marks
22P0100005	BERDOVA MUQADDAS KARAMSHOEVNA	36
22P0100026	NTSELISENG ALINAH LETOLO	50

Certified that all the sub components have been taken into account while finalising the above marks.

Dr. Shripad R. Marathe
NAME OF EXAMINER

EXAMINERS'S SIGNATURE

22/11/2023
Dean/Programme Director/Principal's Signatu

Date: 22/11/2023

N.B.NOTE : Department/College may kindly confirm that the above details are correct with reference to paper title, paper code and number of credits.

<< Absentees should be marked as 'A' (without quotes) >>
<< Carry forward of marks should be indicated as 'CF' (without quotes) >>

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GOA UNIVERITY					
Exam	November 2023 Examination (Master of Arts in Economics - MAEC)				
College	Goa Business School				
Programme	Master of Arts in Economics				
	--				
Paper	COM-601	Basic Econometrics			
Paper Head	SEA	**Max Marks**	40	**Credits**	4

Seat No	SEA Marks
22P0100005	15
22P0100026	26

Certified that all the sub components have been taken into account while finalising the above marks.

Dr. Shripad Marathe
NAME OF EXAMINER

EXAMINERS'S SIGNATURE

12/12/2023
Dean/Programme Director/ Principal's Signatu

Date: 08/12/2023

N.B.NOTE : Department/College may kindly confirm that the above details are correct with reference to paper title, paper code and number of credits.

<< Absentees should be marked as 'A' (without quotes) >>
<< Carry forward of marks should be indicated as 'CF' (without quotes) >>

PD ECONOMICS

(17)

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GOA UNIVERITY				
Exam	November 2023 Examination (Master of Arts in Economics - MAEC)			
College	Goa Business School			
Programme	Master of Arts in Economics			
	--			
Paper	COM-600	Research Methodology		
Paper Head	ISA	Max Marks	60	Credits 4

Seat No	Student Name	ISA Marks
22P0100007	CHATURA MEHTA	53.5
22P0100043	SHRUTI ASHOK VAINGANKAR	50.5

Certified that all the sub components have been taken into account while finalising the above marks.

NAME OF EXAMINER

EXAMINERS'S SIGNATURE

22/11/2023

Dean/Programme Director/ Principal's Signatu

Date: 22/11/2023.

N.B.NOTE : Department/College may kindly confirm that the above details are correct with reference to paper title, paper code and number of credits.

<< Absentees should be marked as 'A' (without quotes) >>

<< Carry forward of marks should be indicated as 'CF' (without quotes) >>

(17)

GOA UNIVERITY					
Exam	November 2023 Examination (Master of Arts in Economics - MAEC)				
College	Goa Business School				
Programme	Master of Arts in Economics				
	--				
Paper	COM-600	Research Methodology			
Paper Head	SEA	Max Marks	40	Credits	4

Seat No	SEA Marks
22P0100007	36½
22P0100043	16½

Certified that all the sub components have been taken into account while finalising the above marks.

Ms. Aahrutha Alarnkar

NAME OF EXAMINER EXAMINERS'S SIGNATURE Dean/Programme Director/ Principal's Signatu

Date: 21/12/2023

N.B.NOTE : Department/College may kindly confirm that the above details are correct with reference to paper title, paper code and number of credits.

PD ECONOMICS

<< Absentees should be marked as 'A' (without quotes) >>
<< Carry forward of marks should be indicated as 'CF' (without quotes) >>

Goa Business School [Commerce Discipline]

Time Table [w.e.f. July 2023]

M.Com Semester – III

Timing	Monday	Tuesday	Wednesday	Thursday	Friday
09-30 am 11.30 am	COM-601 [SP]	COM-601 [SP]	COM-623 [AAA]	COM-623 [AAA]	COM-624 [VKG]
11.45 am 01.45 pm	COM-626 [KBS]	COM-600 [AAA]	COM-622 [AR]	COM-621 [VKG]	COM-624 [VKG]
02.45 pm 04.45 pm	COM-600 [AAA]	COM-626 [KBS]	COM-621 [VKG]	COM-622 [AR]	Dissertation
05.00 pm 05.30 pm	Mentoring Session	Mentoring Session	Mentoring Session	Mentoring Session	Dissertation

Mentoring Session –YVR , AR, KBS, SP, AAA, VKG

• COM-600	Research Methodology	[AAA]
• COM-601	Basic Econometrics	[SP]
• COM-621	Corporate Valuation	[VKG]
• COM-622	Corporate Mergers and Acquisitions	[AR]
• COM-623	Indirect Taxes	[AAA]
• COM-624	Financial Risk Management	[VKG]
• COM-626	Cost Management and Control	[KBS]

- AR = Professor. Anjana Raju
- KBS = Professor. K B Subhash
- SP = Dr. Sri Ram Padyala
- AAA = Ms. Aakruthi Amrut Alarnkar
- VKG = Mr. Vishal Kamlakar Gaonkar

1. The Notice Board
2. Faculty Circulation

Ms. Aakruthi Alarnkar
Programme Director, M. Com.

Goa Business School ★ Goa University ★