Name of the Programme: MSc Integrated
Course Code: IMC- 505
Title of the Course: Econometrics II
Number of Credits: 4(4L-0T-0P)
Effective from AY: 2021-22

Prerequisites for the Course:	Understanding of probability and statistics and basic Econometrics 1 or equivalent.	
Objective:	Equip the students to make sense of empirical data using multiple variables and analytical approaches	
Content:	**Module 1:** Pooling Cross Sections Across Time: Simple Panel Data Methods; Advanced Panel Data Methods **Module 2:** Instrumental Variables Estimation and Two Stage Least Squares; Simultaneous Equations Models **Module 3:** Limited Dependent Variable Models and Sample Selection Corrections; Logit and Probit Models for Binary Response; Tobit censored models **Module 4:** Advanced Time Series: Distributed Lag Models; Testing for Unit Roots; Spurious Regression; Cointegration; Error Correction Models; Forecasting	12 hours 12 hours 12 hours 12 hours
Pedagogy:	Lectures/ tutorials/assignments/self-study	
Reference/Readings:	1. Wooldridge, J. (2018). *Introductory econometrics: A modern approach* (7th edition). Cengage Learning. 2. Angrist, J. D., &Pischke, J.-S. (2009). *Mostly harmless econometrics: An empiricist's companion*. Princeton University Press. 3. Heiss, F. (2020). *Using R for introductory econometrics*.https://elopage.com/s/florian-heiss/using-r-for-introductory-econometrics	
Course Outcomes:	1. Apply advanced econometric techniques to analyze complex economic data. 2. Conduct independent econometric research projects. 3. Evaluate and critique existing econometric studies. 4. Explore advanced topics in econometrics, such as panel data analysis and limited dependent variable models.	