LESSON PLAN, 2023-2024

ECONOMICS HONOURS (ECOA)

SEMESTER 5

Core Course 11: Introductory Econometrics

TOPIC	NUMBER OF CLASSES
IC: Classical Statistical Inference: • Estimation: Properties	5
• Testing of Hypothesis	8
• Non- parametric tests	5
Tutorial	4
SB: Linear Regression • Specifications of the model- Assumptions	1
• Ordinary Least Squares (OLS) Estimation-Gauss Markov Theorem	3
• Estimation of the Error Variance	2
• Statistical Inference in the Linear Regression Model	3
• Confidence Intervals for the Estimated Parameters and the Testing of Hypotheses	2
• Coefficient of Determination	2
• Prediction with the Simple Regression model	2
Problems in OLS Method • Violation of assumptions and simple least-squares methods in two variable linear regression models: Analysis of Residuals and consequences of applying OLS under autocorrelation,	5

heteroscedasticity	
• Test of autocorrelation and heteroscedasticity	6
• Multicolinearity problem, consequences and testing	7
Multiple Regression with qualitative information	
• Describing qualitative information	1
• Single and multiple dummy independent variable	4
• Interaction of dummy independent variables	3
• A binary Dependent variable	3
• The linear probability model	3
Specification Analysis	
• Omission of a relevant variable	2
• Inclusion of irrelevant variable	2
• Tests of specification errors	1
Tutorial	11
Other Activities	5
TOTAL CREDIT	90

Core Course 12: Development Economics

TOPIC	NUMBER OF CLASSES
✧ DB	2
✧ **Basic concept of development**	2
✧ Different concepts of development-	2
✧ sustainable development	1
✧ Participatory development	2

✧ Inclusive development	1
✧ Human development	2
✧ Growth and development	2
✧ Broad indicators of development index	2
✧ Gender empowerment measure	1
✧ Human poverty index	2
✧ International variations in development measures	1
✧ Comparing development trajectories across nations and within them	
✧ Dependency school of development	1
✧ Theory of unequal exchange and development	
✧ **Poverty and Inequality**	1
✧ Meaning of inequality	2
✧ Inequality measures	1
✧ Lorenz curve	1
✧ Range	1
✧ Coefficient of variations	1
✧ Gini coefficient	2
✧ Poverty	
✧ Relative and absolute deprivation with respect to income	2
✧ Poverty line	
✧ Poverty measures	3
✧ Hunger index	1
✧ Tackling poverty- The World bank approach	2
✧ **Tutorial**	**8**
KN

Persistence of Underdevelopment and Strategies of Development | |

● Characteristics of Underdevelopment	1
● Obstacles to development – Trap model – Vicious circle of poverty	2
● Critical minimum effort thesis	2
● Low level equilibrium trap	2
● Balanced growth – Big push theory	2
● Unbalanced Growth- Hirschman model	3
● Process of cumulative causation	2
● Concept of Surplus labour – Nurkse: Surplus labour as potential savings	1
● Surplus labour: Sen's concept	1
● Economic development with unlimited supplies of labour- Lewis Model	2
● Harris-Todaro model	2
● Choice of technique and investment criterion	3
Tutorial	2
	5
RR Globalization: Globalization in historical perspective Brettonwoods & its after math The economies & politics of multilateral agreements Trade, production patterns & world inequality Financial instability in a globalized world Tutorial	1 1 1 2 2 2 2
Student's activity	5
Total Credit	90

DSE Course – Group A(a): Applied Econometrics

TOPIC	NUMBER OF CLASSES
DB **Essential steps in Primary data collection**	
Problem selection	2
Designing of questionnaire	2
Sample design	2
Pre-testing of questionnaire for collection of primary data	2
Introduction to secondary data sources	2
Tutorial	1
RR Application of statistics: Estimation of descriptive statistics:	2
mean, median, mode	3
standard deviation, simple correlation, rank correlation.	
Graphical representation of data sets: pie-chart, bar chart	1
Linear and nonlinear curve fitting.	2
Introduction to probability theory,	3
random sampling using random	1
number	
Testing of hypothesis	2
Tutorial	
	3
IC:	

Stages in Empirical Econometric Research:	
• Research Methodology	10
Application of Econometrics:	
• Linear Regression Model and test for linear restriction parameter test of Heteroscedasticity ; Autocorrelation; Multicollinearity;	11
• Interpretation	8
• Dummy Variables	7
Tutorial	8
SB: Introduction to Econometric Software Package	9
Tutorial	2
Other activities	5
TOTAL CREDIT	90

DSE Course – Group A(b): Public Economics

TOPIC	NUMBER OF CLASSES
KN Nature and Scope of Public Economics:	
● Definition and Scope of Public Economics	2
● Functions of Government: Conflict and co-ordination	2
● Idea of Budget	1
● Externalities: Market failure and Government intervention	3
● Coase Theorem	2
● Fiscal functions	3
Theory of Public Good	
● Definition and characteristics of pure Public good	2
● Distinction between pure public good and private good	1
	1

• Distinction with the help of demand supply apparatus	3
• Impure public good: club good, merit good, mixed good	2
• Free riding problem and market failure	3
• Optimal provision of public good: Samuelson model	1
• Private provision and Public provision of Public good	2
• Lindahl Equilibrium	2
• Voting equilibrium	
Taxation	2
	2
• Benefit principal	3
• Equal Sacrifice Principal: horizontal and vertical equity	
• Ability to pay Doctrine	8
Tutorial	
RR	
Taxation:	4
Classification of Taxes; Canons of	
Taxation	3
Incidence and Burden of Taxes	4
Effects of taxation on income	
distribution, work efforts and on	4
savings	
Dead weight loss and distortion,	2
efficiency and equity considerations,	
tax incidence, optimal taxation	
The Laffer curve.	
Public Expenditure and Public	
Debt:	
Meaning and Classification of Public	3
Expenditure; government budget and	
its types;	
Government expenditure and tax	3

multipliers, balanced budget multiplier;	
Fiscal Federalism in India;	2
Meaning of Public Debt	2
Sources of Public Borrowings:	3
internal and external borrowing	3
Effects of Public Debt.	
Tutorial	7
student's activity	5
Total Credit	90