

Semester :I Department of ECONOMICS Basirhat College Session: 2022-23

Lesson Plan for Course:CC1

Code : ECOACOR01T

Credit:6

- Course coordinator: Niladr Saha

- **Course Outcome**

After successful completion of this course students will be able to:

1. Explain optimal allocation of resources among factors of production.
2. Understand meaning, scope and subject matter of economics.
3. Explain others factors affecting demand and supply and also determination of equilibrium price .
4. Understand different approaches of utility maximisation also stages of production and components of costs of production.
5. Understand features of different market form and their short run and long run behaviour.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks* (Tutorial)
Aug, 2022	Exploring the subject matter of Economics: Why study economics? Scope and method of economics; the economic problem: scarcity and choice; Distinction between Microeconomics and Macroeconomics; the question of what to produce, how to produce and how to distribute output; the basic competitive model.	AKR	3	
	The Households : The consumption decision - budget constraint, consumption and income/price changes, demand for all other goods and price changes; description of preferences (representing preferences with indifference curves); properties of indifference curves	NS	8	1
	Supply and Demand: How Markets Work, Markets and Welfare : Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve; market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together.	EH	5	1
Sept, 2022	Exploring the subject matter of Economics: prices, property rights and profits; incentives and information; rationing; opportunity sets; economic systems.	AKR	4	
	The Households : consumer's optimum choice; income and substitution effects (Hicks & Slutsky); Ordinary and Compensated demand curves, Inferior goods and Giffen goods, Price consumption and income consumption curves.	NS	9	3
	Supply and Demand: How Markets Work, Markets and	EH	7	1

	Welfare : how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; Consumer surplus; producer surplus and the efficiency of the markets.			
Oct, 2022	Revision	NS	1	
	Revision	EH	1	
Nov, 2022	Production and Cost : Short run and long run costs,	AKR	3	
	Market Structure : Different types of market structures- Perfect competition, Monopoly.	NS	9	3
	Production and Cost : Production function, Total, Average and Marginal products, Isoquants and economic regions of production, Cost minimization and expansion path.	EH	6	2
Dec, 2022	Production and Cost : Derivation of the cost function from production function.	AKR	3	
	Market Structure : Monopolistic Competition and Oligopoly (concepts only)	NS	9	2
	Production and Cost : Elasticity of substitution, Economies of scale, Cobb Douglas, Fixed coefficient and CES functions.	EH	6	1
	Total		74	14

Resources :

Books:

1. Lipsey-Positive Economics
2. Maddala& Miller – Microeconomics
3. Koutsoyiannis – Modern Microeconomics
4. Ryan & Pearce – Price Theory
5. Henderson & Quandt – Microeconomic Theory- A Mathematical Approach (3rd Edition)
6. Ferguson & Gould – Microeconomics Theory

Semester:I Department of: ECONOMICS Basirhat College Session: 2022-23

Lesson Plan for Course:CC2

Code: ECOACOR02T

Credit:6

- Course coordinator: EKBAL HOSSAIN

- **Course Outcome**

After successful completion of this course students will be able to:

1. Use basic mathematics that enables the creation of economic theory in general.

2. Understand the application of mathematical techniques to economic theory in general.
3. Solve problems related with utility maximisation, cost minimisation, profit maximisation etc.

Course planner

Sl	Course Topic	Teacher	Class Hour (Theoretical)	Class Hour (Tutorial)
Aug, 2022	Concept: Sets and set operations; relations; functions and their properties; number systems. Set Theory: Definition of a set and discussion of related concepts; Set types; Operations on sets; Nested sets; Cartesian product; Concept of Euclidean Space.	AKR	8	1
	Integral' (stress on both intuitive and mathematical understanding); differentiable functions: Applications of differential and integral calculus to the study of functions: level curves; slope and curvature of functions, area under a curve etc. second and higher order derivatives: properties and applications.	EH	8	1
Sept 2022	Functions and Relations: Definitions; Concepts of 'range', 'domain' and 'mapping'; Explicit and implicit functions; Types of functions and correspondences (polynomial, exponential, logarithmic, power)	AKR	10	2
	Applications: Expenditure function and its properties; Shepherd's Lemma; Indirect Utility Function; Roy's Identity; Slutsky equation and decomposition of price effect; Properties of demand functions. Work-leisure choice; savings function, Total average and marginal Cost & Production, Consumption function, saving & investment function.	EH	10	2
Oct 2022	Revision	AKR	1	
	Revision	EH	1	
Nov 2022	Vector spaces: algebraic and geometric properties, scalar products, norms, orthogonality; linear transformations: properties, matrix representations and elementary operations; systems of linear equations: properties of their solution sets; determinants: characterization, properties and applications. Concepts of various types of series (arithmetic, geometric, logarithmic, exponential, Taylor's and McLaurin's); Brief review of trigonometric functions and associated curves.	AKR	10	2
	Geometric properties of functions: convex functions, distinction between concave and convex functions; their characterizations and applications; local and global optima (maxima and minima);	EH	9	2

	geometric characterizations, characterizations using calculus and applications. Applications: Equilibrium under cardinal utility theory; Maximization of Revenue and Profit, Minimization of cost of production in short run.			
Dec 2022	Free and constrained optimization; Examples of constrained optimization from consumer and producers theories; Static and dynamic optimization problems; applications.	AKR	8	2
	Applications: Equilibrium under cardinal and ordinal utility theory; Maximization of Profit in different market form, Minimization of cost of production in long run.	EH	9	2
			74	14

Resources :

Books:

1. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, 2002.
2. Blume, Lawrence and Carl Simon (1994), Mathematics for Economists, Norton. Chiang,
3. Alpha and Kevin Wainwright (2005), Fundamental Methods of Mathematical Economics, Fourth Edition, McGraw-Hill
4. Baldani, Bradfield and Turner, An Introduction to Mathematical Economic, Cengage Learning: 2007.

Semester:3 Department of Economics Basirhat College Session:2022 -23

Lesson Plan for Course:CC5 Code: ECOACOR05T Credit:6

- Course coordinator : Niladri Saha

- **Course Outcome**

After successful completion of this course students will be able to:

1. Understand features of different market forms and short run and long run market equilibrium under different market forms.
2. Understand how to determine optimal price and employment of an input in different market structures
3. Understand nature of commodities and prices in different market forms.
4. Understand control of individual firm in different market form.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
Aug 2022	Consumer Theory Revisited: (i) Preference; utility; budget constraint; choice; demand (ii) Application of indifference curve approach: Derivation of labour supply and intertemporal choice- Saving and borrowing	AKR	9	
	Market Structure: Perfect Competition : Features, Short run and long run equilibrium of the firm, Short run supply function, Industry Equilibrium.	NS	9	
Sept 2022	Consumer Theory Revisited: (iii) Choice under risk: Describing Risk, Preferences towards risk, Reducing risk, the demand for Risky assets-the trade-off between Risk & Return (iv) Revealed Preference – the weak axiom and substitution effect.	AKR	9	3
	Market Structure: Perfect Competition	NS	9	3
Oct 2022	Perfect Competition and Imperfect competition	AKR	1	
	Perfect Competition and Imperfect competition	NS	1	
Nov 2022	Imperfect Market Structure: Monopoly	AKR	10	2
	Imperfect Market Structure: Monopolistic Competition	NS	9	2
Dec 2022	Imperfect Market Structure: Monopolistic Competition	AKR	8	2
	Imperfect Market Structure: Monopolistic Competition	NS	9	2
			74	14

Resources :

Books:

1. Hal R. Varian, Intermediate Microeconomics, a Modern Approach,
2. Pindyck&Rubinfeld – Microeconomics
3. Koutsoyiannis – Modern Microeconomics
4. Henderson & Quandt – Microeconomic Theory- A Mathematical Approach (3rd)

Lesson Plan for Course:CC6**Code: ECOACOR06T****Credit: 06**

- Course coordinator: Ekbal Hossain

- **Course Outcome**

After successful completion of this course students will be able to:

1. Understand the microeconomic foundation of various aggregative concepts used in the previous course.
2. Understand the causes and effects of different types of inflation and inflation, causes of different types of unemployment and also inflation-unemployment trade-off in an economy.
3. Acquire knowledge regarding development in macroeconomic concepts with special reference to Real Business Cycle and New Keynesian Economics.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
Aug 2022	Inflation, Unemployment and Expectations : (i) Phillips curve; adaptive and rational expectations; policy ineffectiveness debate.	EH	3	
	The classical system : The Classical view of macroeconomics in respect of the determination of employment, output and prices. Say's law and Walras' law – The dichotomy between the real sector and monetary sector – neutrality of money.	GL-2	12	3
Sept 2022	Inflation, Unemployment and Expectations : ii) Aggregate supply and Phillips curve; Inflation, unemployment and Phillips curve	EH	4	
	The Complete Keynesian model : • Derivation of aggregate demand and aggregate supply curve – Keynesian labour supply function – determination of equilibrium – wage rigidity – involuntary unemployment – Underemployment equilibrium – effects of change in money supply and other factors on complete Keynesian model – money illusion.	GL-2	16	4
Oct 2022	Comparison with the Classical system – price flexibility .	GL-2	2	
Nov 2022	Inflation, Unemployment and Expectations : Shift of Phillips curve, Disinflation and sacrifice ratio.	EH	4	
	Open Economy Models : Short-run open economy models;			3

	Mundell-Fleming model; exchange rate determination; purchasing power parity; asset market approach.	GL-2	16	
Dec 2022	Real balance effect.	EH	3	
	Open Economy Models : Dornbusch's overshooting model; monetary approach to balance of payments; international financial markets.	GL-2	14	4
			74	14

Resources :

Books:

1. N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.
2. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
3. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
4. Errol D'Souza, Macroeconomics, Pearson Education, 2009
5. Branson, Macroeconomics (2nd) edition
6. SoumyenSikdar - Principles of Macroeconomics (OUP)
7. R. T. Froyen. Macroeconomics-Theories and Policies, Prentice Hall; 9th Edition, 2008.

Other resources :

*Remarks will specify

- The nature of the class-topic (viz. Theoretical, Practical, and Tutorial).
- Methodology of teaching (whether using ICT, engaging students in group discussion, quiz etc. etc.)
- Different modes of assessment. (Please check UGC evaluation reforms).
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Semester:III Department of Economics Basirhat College Session: 2022-23

Lesson Plan for Course:CC7 Code: ECOACOR07T Credit:06

- Course coordinator: Niladri Saha
- **Course Outcome**
After completion of the course, the students will be able to :
 1. Understand the basic mathematics that are useful in economics
 2. Understand the application of mathematical techniques to economic theory .
 3. Understand the application of LPP, Game theory etc.

Course planner

Sl	Course Topic	Teacher	Class-	Remarks*
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			hour	
Aug 2022	Multi-variable function: some concepts : Convex sets; geometric properties of convex functions, their characterizations, properties and applications; quasiconvex functions, their characterizations, properties and applications; the implicit function; homogeneous and homothetic functions: characterizations and application to comparative statics problems: Maximum (and Minimum) Value Functions; Envelope Theorem; Shadow prices; envelope theorem and applications.	GL1	10	2
	Classical Optimization: First Order condition for optimum; Second Order Condition and sufficiency requirement; Local and Global Optima and Local-Global Theorem	GL-2	5	1
Sept 2022	Simultaneous Equation Systems: Systems of linear equations: properties of their solution sets; determinants: characterization, properties and applications. Linear and non-linear simultaneous systems. Eigen Values, Eigenvectors and Jacobean Transformations. Applications: Simple Linear Input-Output models with fixed coefficients and their Solutions(open and closed model). Two good general equilibrium systems: existence of equilibrium, and comparative statics.	GL1	13	3
	Classical Optimization: Constraint qualification and Kuhn Tucker condition; Lagrangean Technique for optimization and its interpretation.	GL-2	7	1
Oct 2022	LPP : Basic concepts	GL1	2	
Nov 2022	Dynamical Methods: algebraic and geometric exposition: Single Equation linear Difference and Differential equations systems: Monotonic and oscillatory convergence ,divergence and Lyapunov stability. Applications: Cobweb models. Simple small open economy trade models, and the existence of equilibrium and comparative statics	GL1	13	3
	Linear Programming and Duality : Basic concepts and solution methods (graphical and simplex); Duality theorem.	GL-2	7	

Dec 2022	Game Theory and its Applications : Constant and non-constant sum game, two person zero sum game, concept of pure strategy and mixed strategy, Nash equilibrium method and method of dominance. Application:Cournot model, problem of prisoner's dilemma.	GL1	11	3
	Linear Programming and Duality : Applications: Duality in Consumer Thoery: Producer's Theory: Wong-Viner Theorem; Properties of cost functions.	GL2	6	1
			74	14

Resources :

Books:

1. Intrilligator, Mathematical Optimization and Economic Theory, (1971).
2. A. Dixit, Optimization in Economic Theory, OUP, (1995).
3. Dorfman, Samuelson and Solow, Linear Programming and Economic Analysis.
4. Simon and Blume, Mathematics for Economists, Norton and Company, 1994.
5. K. Sydsaeter, P Hammond, Mathematics for economic analysis, Pearson Education, (2002).
6. A.C. Chiang, Mathematical Economics, McGraw Hill, 1995.

Semester :V Department of ECONOMICS Basirhat College Session: 2022-23

Lesson Plan for Course:CC11

Code : ECOACOR11T

Credit:6

- Course coordinator: A.K.Roy

- **Course Outcome**

After successful completion of this course students will be able to:

1. learn basic concepts of Estimation, Testing of hypothesis.
2. learn simple and multiple regression techniques
3. .Describe qualitative information, single and multiple dummy independent variable.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks* (Tutorial)
Aug, 2022	Classical Statistical Inference: Basic concepts of Estimation: Desirable properties of estimators-Unbiasedness, Minimum Variance- Simple methods of point Estimation-Maximum Likelihood, Estimators and their properties	AKR	15	3

	Testing of hypothesis: Confidence intervals- Testing of Hypothesis- p-values- Type-I and Type-II errors- Simple applications of tests for the mean and variance of Univariate Normal Population. Non-parametric tests.			
Sept, 2022	Linear Regression: Specifications of the model- Assumptions- Ordinary Least Squares (OLS) Estimation-Gauss Markov Theorem- Estimation of the Error Variance- Statistical Inference in the Linear Regression Model- Confidence Intervals for the Estimated Parameters and the Testing of Hypotheses- Coefficient of Determination- Prediction with the Simple Regression model.	AKR	20	4
Oct, 2022	Specification Analysis	AKR	2	
Nov, 2022	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, heteroscedasticity, test of autocorrelation and heteroscedasticity, multicollinearity problem, consequences and testing	AKR	19	4
Dec, 2022	Multiple Regression with qualitative information: Describing qualitative information, single and multiple dummy independent variable, interaction of dummy independent variables, A binary Dependent variable: the linear probability model.	AKR	18	3
	Total		74	14

Resources :

Reference Book:

1. D. Gujrati, Basic Econometrics, McGrawhill Higher Education (2003)
2. G.S.Maddala, Introduction to Econometrics, 3rd edition, John Wiley & Sons Ltd (2005).

Semester :V Department of ECONOMICS Basirhat College Session: 2022-23

Lesson Plan for Course:CC12

Code: ECOACOR12T

Credit:6

- Course coordinator: EKBAL HOSSAIN

- **Course Outcome**

After successful completion of this course students will be able to:

4. Understand basic concepts of development and related indexes.

5. Understand strategies of development and different growth models.
6. Understand production patterns and world inequality; financial instability in a globalized world.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks* (Tutorial)
Aug, 2022	Basic concepts of development : Different concepts of development –Sustainable development, Participatory development, Inclusive development, Human development, Growth and Development– Broad Indicators of Economic Development–Per capita Income–Human Development Index– Gender Development Index–Gender Empowerment Measure– Human Poverty Index. International variations in development measures; Comparing development trajectories across nations and within them. Dependency school of development. Theory of unequal exchange and development	GL1	15	3
Sept, 2022	Persistence of Underdevelopment and Strategies of Development : Characteristics of underdevelopment – Obstacles to underdevelopment – Trap Models –Vicious circle of poverty – Critical minimum effort thesis – Low level equilibrium trap –Process of cumulative causation – Big push argument targeting the big push-balanced vs. unbalanced growth; Hirschman model, Choice of technique and investment criteria, Concept of surplus labour – Surplus labour as potential saving – Economic development with unlimited supplies of labour (Lewis Model).	GL1	20	4
Oct, 2022	Harris-Todaro model.	GL1	2	
Nov, 2022	Poverty and Inequality :Meaning of inequality, Inequality measures: Lorenz Curve, Range, Coefficient of variation, Gini-coefficient, Poverty, relative and absolute deprivation with respect to income, Poverty line, Poverty measures – Head count ratio, Poverty gap ratio, Income gap ratio, Human Poverty Index, hunger index etc.. Tackling Poverty – The World Bank Approach	GL1	19	4
Dec, 2022	Globalization :Globalization in historical perspective- Brettonwoods and its after math. the economics and politics of multilateral agreements; trade, production patterns and world inequality; financial instability in a globalized world.	GL1	18	3
	Total		74	14

Books:

- 1.Thirlwall: Growth and Development
- 2.Debraj Roy: Development Economics
3. G.M. Meier and J.E. Rauch.Leadng Issues in Economic Development. Oxford University Press
- 4.K. Basu: Analytical Development Economics, OUP
- 5.Devesh Bhattacharya: Political Economy of Development
- 6.Todaro and Smith: Economic Development, Pearson Education, 2009

Semester :V Department of ECONOMICS Basirhat College Session: 2022-23

Lesson Plan for Course:DSE1

Code : ECOADSE01T

Credit:6

- Course coordinator: Niladr Saha

- **Course Outcome**
After successful completion of this course students will be able to:
 6. conduct research work.
 7. collect data from different sources.
 8. knowledge about using statistical techniques.
 9. use statistical software packages like STATA,EVIEWS,SPSS

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks* (Tutorial)
Aug, 2022	Stages in Empirical Econometric Research : Research Methodology. Essential steps in Primary data collection :Problem selection, designing of questionnaire, sample design, pre-testing of questionnaire forcollection of primary data, introduction to secondary data sources.	GL2	15	3
Sept, 2022	Application of Statistics :Estimation of descriptive statistics: mean, median, mode, standard deviation, simple correlation, rank correlation. Graphical representation of data sets: pie-chart, bar chart, linear and nonlinear curve fitting. Introduction to probability theory, random sampling using random number, Testing of hypothesis.	GL2	20	4
Oct, 2022	Revision	GL2	2	
Nov, 2022	Application of Econometrics : Linear regression model and test for linear restriction on parameters test of heteroscedasticity, autocorrelation, multicollinearity, application of dummy variable models.	GL2	19	4

	Interpretation: Estimated parameters; goodness of fit - R ² and adjusted R ² ; partial regression coefficients; testing hypotheses – individual and joint.			
Dec, 2022	Application of Econometrics : Dummy variables, dummy variable for changes in intercept term, slope coefficient, dummy variable trap, dummy variables for testing in the regression coefficient. Introduction to Econometric Software Package (10 hours) SPSS; E-VIEWS; STATA (any one)	GL2	18	3
	Total		74	14

Resources :

Books:

1. Maddala, G, Introduction to Econometrics, Willey, (2002).
2. Hadley, Linear Programming, Addison-Wesley Pub Co (1962)
3. Cochrane, Sampling Techniques , Wiley; 3rd edition (1977)
4. Wooldridge, J.W : Introduction to Econometrics, South-Western, Division of Thomson Learning; International ed edition (2005)
5. Kenney and Keeping: Mathematics of Statistics, Part I & II, D. Van Nostrand Company Inc; 2nd edition (1951).
6. Madnani, Introduction to Econometrics, S. Chand, (2000).

Semester :V Department of ECONOMICS Basirhat College Session: 2022-23

Lesson Plan for Course:DSE2 Code: ECOADSE02T Credit:6

- Course coordinator: EKBAL HOSSAIN
- **Course Outcome**
After successful completion of this course students will be able to:
 7. Understand scope of Public Economics
 8. Understand Market Failure and Government Intervention
 9. understand government budget and its types .
 10. understand sources of Public Borrowings.

Course planner

Sl	Course Topic	Teacher	Class Hour	Class
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			(Theoretical)	Hour (Tutorial)
Aug, 2022	Nature and Scope of Public Economics : Definition and Scope of Public Economics; Externalities, Market Failure and Government Intervention.	NS	8	1
	Theory of Public Good : Definition of Public Good; Characteristics of Pure Public Good; Distinction between Pure Public Good, impure public good and Private Good; Free riding problem; Market Failure in case of Pure Public Good.	EH	8	1
Sept 2022	Nature and Scope of Public Economics : Coase Theorem; Fiscal functions: an overview.	NS	10	2
	Theory of Public Good : Optimal provision of Public Goods; Private Provision and Public Provision of Public Goods; Lindahl Equilibrium, Voting Equilibrium.	EH	10	2
Oct 2022	Revision	NS	1	
	Revision	EH	1	
Nov 2022	Taxation: Classification of Taxes; Canons of Taxation; Benefit Principle; Equal Sacrifice Principle; Ability to Pay Principle; Incidence and Burden of Taxes.	NS	10	2
	Public Expenditure and Public Debt : Meaning and Classification of Public Expenditure; government budget and its types; government expenditure and tax multipliers, balanced budget multiplier; Fiscal Federalism in India.	EH	9	2
Dec 2022	Taxation: Effects of taxation on income distribution, work efforts, and on savings; dead weight loss and distortion, efficiency and equity considerations, tax incidence, optimal taxation; the Laffer curve.	NS	8	2
	Public Expenditure and Public Debt : Meaning of Public Debt; Sources of Public Borrowings: internal and external borrowing; Effects of Public Debt.	EH	9	2
			74	14

Resources :

Books:

1. J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.
2. H. Rosen, T. Gayer: Public Finance, 9th ed., McGraw-Hill/Irwin, 2009.
3. J. E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000.
4. R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill

Publications, 5th edition, 1989.

5. Mahesh Purohit, Value Added Tax: Experiences of India and Other Countries, 2007.

6. 7. M.M. Sury, Government Budgeting in India, 1990.

8. A.B. Atkinson and J.E. Stiglitz, Lectures on Public Economics, McGraw-Hill Inc., US, 1980.

9. J. F. Due and A. F. Friedlander. Government Finance-Economics of Public Sector, AITBS Publishers and Distributors, 1994

10. Amaresh Bagchi (ed), Readings in Public Finance, OUP

11. R.J. Chelliah (ed), Towards Sustainable Growth, OUP, 2009

12. A Ghosh and C. Ghosh, Public Finance, Prentice Hall India Learning Private Limited; 2nd Revised edition (2014)