

Semester:I Department of ECONOMICS Basirhat College Session: 2020-21

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 bAKRaviour.

Course planner

SI	Course Topic	Teacher	Class	Remarks
Dec 2020	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.	AKR	5	Tutorial-1
	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.	NS	5	Tutorial-1
			Total-10	Total Tutorial -2

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: 2020-21

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	Remarks
Dec,20	<p>Concept: Sets and set operations; relations; functions and their properties; number systems.</p> <p>Set Theory: Definition of a set and discussion of related concepts; Set types; Operations on sets; Nested sets; Cartesian product; Concept of Euclidean Space</p> <p>Functions and Relations: Definitions; Concepts of ‘range’, ‘domain’ and ‘mapping’; Explicit and implicit functions; Types of functions and correspondences</p>	EH	10	Tutorial-2
		Total	10	2

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: 2020-21****Lesson Plan for Course:CC5****Code: ECOACOR05T****Credit:6**

- Course coordinator :EKBAL HOSSAIN

- **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*
July 2020	1. Consumer Theory Revisited : (i) Preference; utility; budget constraint; choice; demand	EH	3	Tutorial-1
Aug 2020	1. Consumer Theory Revisited : (ii) Application of indifference curve approach: Derivation of labour supply and intertemporal choice- Saving and borrowing (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.	EH	17	Tutorial-5
Sept 2020	2. Market Structure: Perfect Competition: Features, Short run and long run equilibrium of the firm, Short run supply function, Industry equilibrium; Long run industry supply with or without external economies or diseconomies.	EH	20	Tutorial-4
Oct 2020	3. Imperfect Market Structure: Monopoly: (i) Monopoly and anti-trust policy; government policies towards competition; Sources of monopoly power, Index of monopoly power. (ii) Equilibrium with single plant, multiple plants,	EH	13	Tutorial-3

	Constrained revenue maximisation, Natural monopoly; Dead-weight loss of Monopoly			
Nov 2020	3. Imperfect Market Structure: Monopoly: (iii) Price discrimination; peak-load pricing; bundling; two-part tariff (iv) Monopsony.	EH	7	Tutorial-1
Dec 2020	4. Imperfect Market Structure: Monopolistic Competition : Concept: Product diversification; Short-run & Long-run equilibrium; Excess Capacity.	EH	15	Tutorial-2
			Total-75	Total Tutorial-16

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)

Semester:3 Department of Economics Basirhat College Session: 2020-21

Lesson Plan for Course:CC6

Code: ECOACOR06T

Credit: 06

- Course coordinator: Asok Kr. Roy

• **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*
July 2020	1. The classical system : The Classical view of macroeconomics in respect	AKR	3	Tutorial-1

	of the determination of employment, output and prices.			
Aug 2020	<p>1. The classical system :</p> <p>Say's law and Walras' law – The dichotomy between the real sector and monetary sector – neutrality of money.</p> <p>2. The Complete Keynesian model :</p> <p>Derivation of aggregate demand and aggregate supply curve.</p>	AKR	17	Tutorial-5
Sept 2020	<p>2. The Complete Keynesian model :</p> <p>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.</p> <p>Comparison with the Classical system – price flexibility – Real balance effect.</p>	AKR	20	Tutorial-4
Oct 2020	<p>3. Inflation, Unemployment and Expectations:</p> <p>(i) Phillips curve; adaptive and rational expectations; policy ineffectiveness debate.</p>	AKR	13	Tutorial-3
Nov 2020	<p>3. Inflation, Unemployment and Expectations:</p> <p>(ii) Aggregate supply and Phillips curve; Inflation, unemployment and Phillips curve, Shift of Phillips curve, Disinflation and sacrifice ratio.</p>	AKR	7	Tutorial-1
Dec 2020	<p>4. Open Economy Models :</p> <p>Short-run open economy models; Mundell-Fleming model; exchange rate determination; purchasing power parity; asset market approach; Dornbusch's overshooting model; monetary approach to balance of payments; international financial markets.</p>	AKR	15	Tutorial-2
	Total		Total-75	Total Tutorial-16

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.

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-hour	Remarks*
July 2020	1. Multi-variable function: some concepts : Convex sets; geometric properties of convex functions, their characterizations, properties and applications; quasiconvex functions, their characterizations.	NS	3	Tutorial-1
Aug 2020	1. Multi-variable function: some concepts : 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. 2. Classical Optimization : First Order condition for optimum; Second Order Condition and sufficiency requirement; Local and Global Optima and Local-Global Theorem;	NS	17	Tutorial-5

	Constraint qualification and Kuhn Tucker condition; Lagrangean Technique for optimization and its interpretation.			
Sept 2020	<p>3.Linear Programming and Duality :</p> <p>Basic concepts and solution methods (graphical and simplex); Duality theorem. Applications: Duality in Consumer Thoery: Producer’s Theory: Wong-Viner Theorem; Properties of cost functions.</p> <p>4.Simultaneous Equation Systems:</p> <p>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.</p>	NS	20	Tutorial-4
Oct 2020	<p>4.Simultaneous Equation Systems:</p> <p>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.</p> <p>5.Dynamical Methods: algebraic and geometric exposition:</p> <p>Single Equation linear Difference and Differential equations systems: Monotonic and oscillatory convergence ,divergence and Lyapunov stability.</p>	NS	13	Tutorial-3
Nov 2020	<p>5.Dynamical Methods: algebraic and geometric exposition:</p> <p>Applications: Cobweb models. Simple small open economy trade models, and the existence of equilibrium and comparative statics</p>	NS	7	Tutorial-1
Dec 2020	<p>6.Game Theory and its Applications :</p> <p>Constant and non-constant sum game, two person zero sum game, concept of pure strategy and mixed strategy, Nash equilibrium method and</p>	NS	15	Tutorial-2

	method of dominance. Application:Cournot model, problem of prisoner's dilemma.			
			Total-75	Total Tutorial-16

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: 2020-21

Lesson Plan for Course:CC11 Code: ECOACOR11T Credit:6

- Course coordinator :EKBAL HOSSAIN

- **Course Outcome**

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

1. Understand the desirable properties of a good estimator.
2. Understand how to infer about population using testing of Hypothesis- p-values- Type-I and Type-I errors ,regression model etc.
3. Acquire knowledge about sampling techniques.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
July 2020	1. Classical Statistical Inference: Basic concepts of Estimation.	EH	3	
Aug 2020	1. Classical Statistical Inference: Desirable properties of estimators- Unbiasedness, Minimum Variance- Simple methods of point Estimation-Maximum Likelihood, Estimators	EH	14	Tutorial-2

	<p>and their properties. 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</p> <p>Population. Non-parametric tests.</p>			
Sept 2020	<p>2. Linear Regression:</p> <p>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</p>	EH	16	Tutorial-2
Oct 2020	<p>3. Problems in OLS Method:</p> <p>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</p>	EH	10	Tutorial-2
Nov 2020	<p>4. Multiple Regression with qualitative information:</p> <p>Describing qualitative information, single and multiple dummy independent variable.</p>	EH	4	Tutorial-2
Dec 2020	<p>4. Multiple Regression with qualitative information:</p> <p>interaction of dummy independent variables, A binary Dependent variable: the linear probability model.</p> <p>5. Specification Analysis:</p> <p>Omission of a relevant variable; inclusion of irrelevant variable; tests of specification errors.</p>	EH	10	Tutorial-2

			Total - 57	Total Tutorial-12
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Resources :

Books:

1. G.S.Maddala, Introduction to Econometrics, 3rd edition, John Wiley & Sons Ltd (2005).
2. Jan Kmenta, Elements of Econometrics, Macmillan Publishing company(1991)
3. D. Gujrati, Basic Econometrics, McGrawhill Higher Education (2003)
4. Greene W.H. : Econometric Analysis, 4th edition, Pearson Education (2000)

Semester:V Department of Economics Basirhat College Session: 2020-21

Lesson Plan for Course:CC12

Code: ECOACOR12T

Credit: 06

- Course coordinator: Asok Kr. Roy

- **Course Outcome**

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

- 1.Understand basic concepts of development.
- 2.Acquire knowledge about different development models .
- 3.Acquire knowledge about human development and gender development issues.
- 4.Understand different issues related to globalisation.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
July 2020	1. Basic concepts of development : Different concepts of development –Sustainable development.	AKR	3	
Aug 2020	1. Basic concepts of 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.	AKR	14	Tutorial-2

Sept 2020	<p>2. Persistence of Underdevelopment and Strategies of Development :</p> <p>Characteristics of underdevelopment – Obstacles to underdevelopment – Trap Models –</p> <p>Vicious circle of poverty – Critical minimum effort thesis – Low level equilibrium trap –</p> <p>Process of cumulative causation – Big push argument targeting the big push-balanced vs. unbalanced growth; Hirschman model, Choice of technique and investment criteria.</p>	AKR	16	Tutorial-2
Oct 2020	<p>2. Persistence of Underdevelopment and Strategies of Development :</p> <p>Concept of surplus labour – Surplus labour as potential saving – Economic development with unlimited supplies of labour (Lewis Model). Harris-Todaro model.</p> <p>3. Poverty and Inequality :</p> <p>Meaning of inequality, Inequality measures: Lorenz Curve, Range, Coefficient of variation, Gini-coefficient, Poverty, relative and absolute deprivation with respect to income.</p>	AKR	10	Tutorial-2
Nov 2020	<p>3. Poverty and Inequality :</p> <p>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.</p>	AKR	4	Tutorial-2
Dec 2020	<p>4. Globalization :</p> <p>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.</p>	AKR	10	Tutorial-2
	Total		Total - 57	Total Tutorial-12

Resources :

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. (8th edition or latest)
- 4.K. Basu: Analytical Development Economics, OUP
- 5.Debesh Bhattacharya: Political Economy of Development
- 6.Todaro and Smith: Economic Development, Pearson Education, 2009
7. Y. Hayami, “Development Economics”, (Oxford University Press)

Semester:V Department of Economics Basirhat College Session: 2020-21

Lesson Plan for Course: DSE-1 A(a) Code: ECOADSE01T Credit: 06

- Course coordinator: Niladri Saha

- **Course Outcome**

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

- 1.Acquire knowledge about how to conduct research and to select data for that.
- 2.Acquire knowledge about basic econometrics that will helps in estimating and infer about population.
- 3.Learn how to use statistical softwares.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
July 2020	1. Stages in Empirical Econometric Research : Research Methodology	NS	3	
Aug 2020	1. Stages in Empirical Econometric Research : Research Methodology. 2. Essential steps in Primary data collection : Problem selection, designing of questionnaire, sample design, pre-testing of questionnaire for collection of primary data, introduction to secondary data sources.	NS	14	Tutorial-2
Sept 2020	3. Application of Statistics :	NS	16	Tutorial-2

	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.			
Oct 2020	4. Application of Econometrics : Linear regression model and test for linear restriction on parameters test of heteroscedasticity, autocorrelation, multicollinearity, application of dummy variable models. Interpretation: Estimated parameters; goodness of fit - R^2 and adjusted R^2 ; partial regression coefficients; testing hypotheses – individual and joint.	NS	10	Tutorial-2
Nov 2020	4. 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.	NS	4	Tutorial-2
Dec 2020	5.Introduction to Econometric Software Package : SPSS; E-VIEWS; STATA (any one)	NS	10	Tutorial-2
	Total		Total - 57	Total Tutorial-12

Resources :

Books:

1. Maddala, G, Introduction to Econometrics, Willey, (2002).
2. Hadley, Linear Programming, Addison-Wesley Pub Co (1962)
3. Cochran, 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, Part1& II, D. Van Nostrand Company Inc; 2nd edition (1951).
6. Madnani, Introduction to Econometrics, S. Chand, (2000).

Lesson Plan for Course: DSE A(b) Code: ECOADSE02T**Credit: 06**

- Course coordinator: Asok Kr. Roy

- **Course Outcome**

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

1. Understand the nature and scope of public economics.
2. Acquire knowledge about public and private goods and related theories.
3. Acquire knowledge about impact and imposition of different types of taxes.
4. Understand different issues related to government spending and earnings.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
July 2020	1. Nature and Scope of Public Economics : Definition and Scope of Public Economics, Externalities.	AKR	3	
Aug 2020	1. Nature and Scope of Public Economics : Market Failure and Government Intervention; Coase Theorem; Fiscal functions: an overview. 2. 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.	AKR	14	Tutorial-2
Sept 2020	2. Theory of Public Good: Market Failure in case of Pure Public Good; Optimal provision of Public Goods; Private Provision and Public Provision of Public Goods; Lindahl Equilibrium, Voting Equilibrium.	AKR	16	Tutorial-2
Oct 2020	3. Taxation : Classification of Taxes; Canons of Taxation; Benefit Principle; Equal Sacrifice Principle; Ability to Pay Principle; Incidence and Burden of Taxes; Effects of taxation on income distribution, work efforts, and on savings.	AKR	10	Tutorial-2
Nov 2020	3. Taxation :	AKR	4	Tutorial-2

	Dead weight loss and distortion, efficiency and equity considerations, tax incidence, optimal taxation; the Laffer curve. 4. Public Expenditure and Public Debt : Meaning and Classification of Public Expenditure; government budget and its types.			
Dec 2020	4. Public Expenditure and Public Debt : Government expenditure and tax multipliers, balanced budget multiplier; Fiscal Federalism in India; Meaning of Public Debt; Sources of Public Borrowings: internal and external borrowing; Effects of Public Debt.	AKR	10	Tutorial-2
	Total		Total - 57	Total Tutorial-12

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)

Semester: I Department of ECONOMICS Basirhat College Session: 2020-21

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:

6. Explain optimal allocation of resources among factors of production.

7. Understand meaning, scope and subject matter of economics.
8. Explain others factors affecting demand and supply and also determination of equilibrium price .
9. Understand different approaches of utility maximisation also stages of production and components of costs of production.
10. Understand features of different market form and their short run and long run bAKRaviour.

Course planner

SI	Course Topic	Teacher	Class	Remarks
JAN, 21	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.	AKR	9	Tutorial-2
	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.	NS	9	Tutorial-2
FEB,21	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; consumer's optimum choice	AKR	9	Tutorial-1
	How prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumersurplus; producer surplus and the efficiency of the markets. Production function, Total, Average and Marginal products, Isoquants and economic regions of production, Cost minimization and expansion path, Elasticity of substitution, Economies of scale, Cobb Douglas, Fixed coefficient and CES functions	NS	9	Tutorial-2
MAR,21	income and substitution effects (Hicks & Slutsky); Ordinary and Compensated demand curves, Inferior goods and Giffen goods, Price consumption and income consumption curves	AKR	4	Tutorial-1

	Short run and long run costs, Derivation of the cost function from production function.	NS	4	Tutorial-1
			Total-44	Total Tutorial -9

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)

Semester:I Department of ECONOMICS Basirhat College Session: 2020-21

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:

4. Use basic mathematics that enables the creation of economic theory in general.
5. Understand the application of mathematical techniques to economic theory in general.
6. Solve problems related with utility maximisation, cost minimisation, profit maximisation etc.

Course planner

Sl	Course Topic	Teacher	Class	Remarks
JAN,21	Brief Review of Differential and Integral Calculus: Concepts of ‘limits and continuity’, ‘derivative’, ‘partial derivative’, ‘total differential’ and ‘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 order derivatives. Applications: 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	EH	19	Tutorial-3

	function.			
FEB,21	<p>Simultaneous Linear Systems and Related Applications of Matrix Algebra: 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.</p> <p>Single-variable optimization: Geometric properties of functions: convex functions, distinction between concave and convex functions; their characterizations and applications; local and global optima.</p> <p>Applications: Equilibrium under cardinal utility theory; Maximization of Revenue and Profit, Minimization of cost of production in short run.</p>	EH	17	Tutorial-4
MAR,21	<p>Multi-variable optimization: Free and constrained optimization; Examples of constrained optimization from consumer and producers theories.</p> <p>Applications: Equilibrium under cardinal and ordinal utility theory; Maximization of Profit Minimization of cost of production in long run.</p>	EH	8	Tutorial-2
		Total	44	9

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: 2020-21

Lesson Plan for Course:CC5

Code: ECOACOR05T

Credit:6

- Course coordinator :EKBAL HOSSAIN
- **Course Outcome**
After successful completion of this course students will be able to:
 5. Understand features of different market forms and short run and long run market equilibrium under different market forms.
 6. Understand how to determine optimal price and employment of an input in different market structures
 7. Understand nature of commodities and prices in different market forms.
 8. Understand control of individual firm in different market form.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
JAN,21	Revision-Consumer Theory Revision-Market Structure: Perfect Competition	EH	18	Tutorial-4
FEB,21	Revision-Imperfect Market Structure	EH	17	Tutorial-4
MAR,21	Revision-Imperfect Market Structure: Monopolistic Competition	EH	8	Tutorial-2
			Total-43	Total Tutorial-10

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

Semester:3 Department of Economics Basirhat College Session: 2020-21

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

- Course coordinator: Asok Kr. Roy
- **Course Outcome**
After successful completion of this course students will be able to:

4. Understand the microeconomic foundation of various aggregative concepts used in the previous course.
5. 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.
6. 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*
JAN,21	Revision-The classical system Revision-The Complete Keynesian model	AKR	18	Tutorial-4
FEB,21	Revision-Inflation, Unemployment and Expectations	AKR	17	Tutorial-4
MAR,21	Revision-Open Economy Models	AKR	8	Tutorial-2
	Total		Total-43	Total Tutorial-10

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.

Semester:3 Department of Economics Basirhat College Session: 2020-21

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 :

4. Understand the basic mathematics that are useful in economics
5. Understand the application of mathematical techniques to economic theory .

6. Understand the application of LPP, Game theory etc.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
JAN,21	Revision-Multi-variable function: some concepts. Revision-Classical Optimization	NS	18	Tutorial-4
FEB,21	Revision-Linear Programming and Duality Revision-Simultaneous Equation Systems	NS	17	Tutorial-4
MAR,21	Revision-Dynamical Methods: algebraic and geometric exposition. Revision-Game Theory and its Applications	NS	8	Tutorial-2
			Total-43	Total Tutorial-10

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: 2020-21

Lesson Plan for Course:CC11 Code: ECOACOR11T Credit:6

- Course coordinator :EKBAL HOSSAIN

- **Course Outcome**

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

1. Understand the desirable properties of a good estimator.
2. Understand how to infer about population using testing of Hypothesis- p-values- Type-I and Type-I errors ,regression model etc.
3. Acquire knowledge about sampling techniques.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
JAN, 21	Revision- Classical Statistical Inference Revision- Linear Regression	EH	18	Tutorial-4
FEB, 21	Revision- Problems in OLS Method Revision- Multiple Regression with qualitative information	EH	17	Tutorial-4
MAR, 21	Revision- Specification Analysis	EH	8	Tutorial-2
			Total - 43	Total Tutorial-10

Resources :

Books:

1. G.S.Maddala, Introduction to Econometrics, 3rd edition, John Wiley & Sons Ltd (2005).
2. Jan Kmenta, Elements of Econometrics, Macmillan Publishing company(1991)
3. D. Gujarati, Basic Econometrics, McGrawhill Higher Education (2003)
4. Greene W.H. : Econometric Analysis, 4th edition, Pearson Education (2000)

Semester:V Department of Economics Basirhat College Session: 2020-21

Lesson Plan for Course:CC12

Code: ECOACOR12T

Credit: 06

- Course coordinator: Asok Kr. Roy

- **Course Outcome**

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

- 1.Understand basic concepts of development.
- 2.Acquire knowledge about different development models .
- 3.Acquire knowledge about human development and gender development issues.
- 4.Understand different issues related to globalisation.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
JAN,21	Revision-Basic concepts of development Revision-Persistence of Underdevelopment and Strategies of Development	AKR	18	Tutorial-4
FEB,21	Revision-Poverty and Inequality	AKR	17	Tutorial-4

	Revision-Persistence of Underdevelopment and Strategies of Development			
MAR,21	Revision-Globalization	AKR	8	Tutorial-2
	Total		Total -43	Total Tutorial-10

Resources :

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. (8th edition or latest)
- 4.K. Basu: Analytical Development Economics, OUP
- 5.Debesh Bhattacharya: Political Economy of Development
- 6.Todaro and Smith: Economic Development, Pearson Education, 2009
7. Y. Hayami, “Development Economics”, (Oxford University Press)

Semester:V Department of Economics Basirhat College Session: 2020-21

Lesson Plan for Course: DSE-1 A(a) Code: ECOADSE01T Credit: 06

- Course coordinator: Niladri Saha

- **Course Outcome**

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

- 1.Acquire knowledge about how to conduct research and to select data for that.
- 2.Acquire knowledge about basic econometrics that will helps in estimating and infer about population.
- 3.Learn how to use statistical softwares.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
JAN,21	Revision- Stages in Empirical Econometric Research Revision- Essential steps in Primary data collection	NS	18	Tutorial-4
FEB,21	Revision- Application of Statistics Revision- Application of Econometrics	NS	17	Tutorial-4

MAR,21	Revision- Introduction to Econometric Software Package	NS	8	Tutorial-2
	Total		Total -43	Total Tutorial-10

Resources :

Books:

1. Maddala, G, Introduction to Econometrics, Willey, (2002).
2. Hadley, Linear Programming, Addison-Wesley Pub Co (1962)
3. Cochran, 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, Part1& II, D. Van Nostrand Company Inc; 2nd edition (1951).
6. Madhani, Introduction to Econometrics, S. Chand, (2000).

Semester:V Department of Economics Basirhat College Session: 2020-21

Lesson Plan for Course: DSE A(b) Code: ECOADSE02T

Credit: 06

- Course coordinator: Asok Kr. Roy

- **Course Outcome**

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

1. Understand the nature and scope of public economics.
2. Acquire knowledge about public and private goods and related theories.
3. Acquire knowledge about impact and imposition of different types of taxes.
4. Understand different issues related to government spending and earnings.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
JAN, 21	Revision- Nature and Scope of Public Economics Revision- Theory of Public Good	AKR	18	Tutorial-4
FEB, 21	Revision- Taxation Revision- Public Expenditure and Public Debt	AKR	17	Tutorial-4
MAR ,21	Revision- Public Expenditure and Public Debt	AKR	8	Tutorial-2
	Total		Total -43	Total Tutorial-10

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)