

Lesson Plan for Course: Paper-3**Marks-100**

Course coordinator: A.K.Roy

- Course Outcome

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

1. Acquire knowledge regarding the short run and long run behaviour of firms in a given demand condition under different imperfectly competitive market set up.
2. Understand how to determine optimal price and employment of an input in different market structures and the role of the labour union in determining wage rates.
3. Check whether the independent action by each economic agent is consistent while there is interdependence among the economic agents.
4. Know how choice in the face of risk differs from choice in the absence of risk, how to measure and reduce risk.
5. Understand the microeconomic foundation of various aggregative concepts used in the previous course.
6. Understand the causes and effects of different types of inflation and inflation-unemployment tradeoff in an economy.
7. Recent development in macroeconomic concepts with special reference to Real Business Cycle and New Keynesian Economics.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks
Jul,2018	1. Monopoly and Monopolistic Competition: a) Monopoly: Sources of monopoly power, Index of monopoly power, Equilibrium with single plant, multiple plants, Price discrimination, Constrained revenue maximisation, Natural monopoly, Effects of different types of location, Dead-weight loss of monopoly.	AKR	11	TUTOIAL AKR-2 EH-2
	1. Microfoundation of Macro behaviour: (i) Consumption function: Keynes and the consumption function, Secular stagnation & the consumption puzzle, Inter-temporal choice, Permanent income hypothesis and lifecycle hypothesis.	EH	10	
Aug,2018	1. Monopoly and Monopolistic Competition: b) Monopolistic Competition: Features, Short-run & Long-run equilibrium, Excess Capacity.	AKR	9	TUTOIAL AKR-2 EH-2
	1. Microfoundation of Macro behaviour: (ii) Investment function: Fixed investment; The neoclassical approach, Tobin's q, Residential investment, Accelerator model of investment.	EH	10	
Sep,2018	2. Oligopoly: Conjectural Variation & Reaction functions, Analysis of Cournot & Stackelberg Collusive Oligopoly & Prisoners' dilemma in cartel stability, Nash equilibrium of game.	AKR	9	TUTOIAL AKR-2 EH-2
	1. Microfoundation of Macro behaviour: (iii) Demand for Money: Transaction demand for money, Precautionary demand for money, Speculative demand for money, The Regressive Expectations	EH	9	

	Model, The portfolio balance approach, The Baumol-Tobin models of Cash Management, Money as a consumer's and producer's good.			
Oct,2018	3. Factor Pricing: Derived demand for a single input & multiple input in competitive market, Firm demand & industry demand.	AKR	4	TUTOIAL AKR-1 EH-1
	1. Microfoundation of Macro behaviour: (iv) The supply of money: Definitions of Money supply (M ₁ , M ₂ , M ₃ , M ₄), Credit creation by commercial banks, Money multiplier, Instruments of monetary policy.	EH	4	
Nov,2018	3. Factor Pricing: Derived demand for a single input & multiple input imperfectly competitive markets, Firm demand & industry demand, Adding up problem, Collective bargaining & exploitation, Rent & Quasi-rent.	AKR	5	TUTOIAL AKR-1 EH-1
	2. Inflation:- Definition and functions of money, Quantity theory of money, Money, prices and inflation, Inflation and interest rates.	EH	5	
Dec,2018	4. Welfare Economics: Conditions of Pareto optimality in pure exchange & in production, Optimality of perfect competition, Externalities & market failure.	AKR	6	TUTOIAL AKR-1 EH-1
	2. Inflation:- The fisher effect, Future money and current prices, The social costs of inflation. 3. Aggregate supply and Phillips curve: Inflation, unemployment and Phillips curve, Shift of Phillips curve.	EH	5	
Jan,2019	5. Choice under Uncertainty: Describing Risk, Preferences towards risk, Reducing risk, the demand for Risky assets-the trade-off between Risk & Return.	AKR	9	TUTOIAL AKR-2 EH-2
	3. Aggregate supply and Phillips curve: Causes of inflation, Disinflation and sacrifice ratio, Rational expectation and painless disinflation. 4. Recent Developments in Macroeconomics: Rational expectations, Real business cycle, New Keynesian Economics.	EH	8	
Feb,2019	REVISION	AKR	10	REVISION
	REVISION	EH	11	REVISION
Mar,2019	REVISION	AKR	11	REVISION
	REVISION	EH	12	REVISION
Apr,2019	REVISION	AKR	10	REVISION
	REVISION	EH	10	REVISION
Total Class:190			168	22

Resources :

Books:

For 1+1+1 System

1. Pindyck&Rubinfeld
2. Dominick Salvatore
3. Handerson&Quandt
4. Maddala& Miller
5. Mankiw: Macroeconomics (6th edition)
6. W.H. Bon- Macroeconomic Theory & Polity (2nd edition)
7. Dornbusch, Fischer &Startz- Macroeconomics (9th edition)
8. SoumyenSikdar – Macroeconomics

CBCS SYSTEM

Lesson Plan for Course:CC1

Code : ECOACOR01T

Credit:6

- Course coordinator: A.K.ROY

- **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

Sl	Course Topic	Teacher	Class Hour	Remarks
July 2018	1. 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; prices, property rights and profits ; incentives and information; rationing; opportunity sets; economic systems..	AKR	7	TUTORIAL AKR-2 NS-1
	4. Production and Cost Production function, Total, Average and Marginal products, Isoquants and economic regions of production.	NS	4	
Aug 2018	2. 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; 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.	AKR	12	TUTORIAL AKR-3 NS-1
	4. Production and Cost Cost minimization and expansion path, Elasticity of substitution, Economies of scale, Cobb Douglas, Fixed coefficient and CES functions.	NS	7	
Sept 2018	3. The Households The consumption decision - budget constraint, consumption	AKR	12	TUTORIAL AKR-3

	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-2
	4. Production and Cost Short run and long run costs, Derivation of the cost function from production function . 5. Market Structure Different types of market structures.	NS	5	
Oct 2018	3. The Households consumer's optimum choice; income and substitution effects (Hicks & Slutsky).	AKR	5	TUTORIAL AKR-2
	5. Market Structure Perfect competition, Monopoly.	NS	3	
Nov 2018	3. The Households Ordinary and Compensated demand curves, Inferior goods and Giffen goods, Price consumption and income consumption curves	AKR	7	TUTORIAL AKR-1 NS-1
	5. Market Structure Monopolistic Competition and Oligopoly.	NS	3	
Dec 2018	REVISION	AKR	9	
	REVISION	NS	5	
			79	16

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

Lesson Plan for Course:CC2

Code: ECOACOR02T

Credit:6

- Course coordinator: NILADRI SAHA

- **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	Class Hour (Tutorial)
July 2018	1. Preliminaries 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	EH	7	TUTORIAL AKR-2 NS-1

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	Functions and Relations: Definitions; Concepts of 'range', 'domain' and 'mapping'.			
	5. Single-variable optimization Geometric properties of functions: convex functions, distinction between concave and convex functions; their characterizations and applications.	NS	4	
Aug 2018	1. Preliminaries Explicit and implicit functions; Types of functions and correspondences (polynomial, exponential, logarithmic, power) 2. 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.	AKR	12	TUTORIAL AKR-3 NS-1
	5. Single-variable optimization Local and global optima (maxima and minima); 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.	NS	7	
Sept 2018	2. Brief Review of Differential and Integral Calculus 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. 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.	AKR	12	TUTORIAL AKR-3 NS-2
	6. Multi-variable optimization Free and constrained optimization; Examples of constrained optimization from consumer and producers theories.	NS	5	
Oct 2018	3. 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.	AKR	5	TUTORIAL AKR-2
	6. Multi-variable optimization Static and dynamic optimization problems; applications.	NS	3	
Nov 2018	4. Other Topics Concepts of various types of series (arithmetic, geometric, logarithmic, exponential, Taylor's and McLaurin's); Brief review of trigonometric functions and associated curves.	AKR	7	TUTORIAL AKR-1 NS-1
	6. Multi-variable optimization Applications: Equilibrium under cardinal and ordinal utility theory; Maximization of Profit in different market form, Minimization of cost of production in long run.	NS	3	
Dec 2018	REVISION	AKR	9	
	REVISION	NS	5	

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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.

Lesson Plan for Course: CC3**Code: ECOACOR03T****Credit:06**

- Course coordinator: A.K.ROY
- **Course Outcome**
After successful completion of this course students will be able to:
 1. Explain others different components of national income and their importance in National income accounting.
 2. Understand demand and supply of money ,credit creation and monetary and fiscal measure to control supply and demand of money in the economy.
 3. Understand causes and effects of inflation and role of Govt to check inflationary effects.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
Jan 2019	2. Money Functions of money; quantity theory of money; determination of money supply and demand; credit creation; tools of monetary policy.	AKR	11	TUTORIAL AKR-3 NS-1
	1. Introduction to Macroeconomics and National Income Accounting Basic issues studied in macroeconomics; measurement of gross domestic product; income, expenditure and the circular flow; different methods of calculating NI.	NS	6	
Feb 2019	3. Inflation Inflation and its social costs; Demand Pull and Cost Push inflation; hyperinflation; anti inflationary policies	AKR	12	TUTORIAL AKR-2 NS-2
	1. Introduction to Macroeconomics and National Income Accounting Measurement of cost of living – CPI, GDP deflator; measuring joblessness – Unemployment rate.	NS	5	
March 2019	4. The Closed Economy in the Short Run Classical and Keynesian systems (difference in concepts).	AKR	13	TUTORIAL AKR-3 NS-1
	1. Introduction to Macroeconomics and National Income Accounting Unemployment and GDP – Okun's Law; national income accounting for an open economy.	NS	6	
April	4. The Closed Economy in the Short Run	AKR	12	TUTORIAL

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2019	Simple Keynesian model of income determination, Multipliers, ISLM model; fiscal and monetary multipliers.			AKR-2 NS-1
	1. Introduction to Macroeconomics and National Income Accounting Balance of payments: current and capital accounts; NI as a measure of economic welfare.	NS	5	
May 2019	REVISION	AKR	4	
	REVISION	NS	2	
			76	15

Resources :

Books:

1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
2. N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
4. Richard T. Froyen, Macroeconomics, Pearson Education Asia, 2nd edition, 2005.
5. Errol D'Souza, Macroeconomics, Pearson Education, 2009.
6. Branson, Macroeconomics (2nd) edition

Lesson Plan for Course:CC4 Code: ECOACOR04T Credit:06

- Course coordinator: Ekbal Hossain

- **Course Outcome**

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

1. Understand basic concepts statistics and different methods of collecting, representing data.
2. Explain others characteristics of sample data adopting various methods of statistical measurements.
3. Understand the comparability, consistency, spreadness /concentration among different sets of sample data.
4. Understand the degree and the direction of association in bivariate setup.
5. Estimate dependent variable using regression analysis.
6. Understand Stock market indices ,CPI,WPI etc.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks
Jan 2019	1. Basic concepts Population and sample, parameter and statistic; Data Collection: primary and secondary data, methods of collection of primary data; Presentation of Data: Univariate frequency distribution; cumulative frequency; graphic and diagrammatic representation of data	EH	11	TUTORIAL EH-3 NS-1
	8. Index Numbers Price, quantity Index Numbers: Index number as weighted averages, Price and quantity index numbers, Problems in the Construction of Index Numbers, Tests for index Numbers, Chain based Index, Cost of Living Index Number, Wholesale Price Index and Cost of Living Index, Uses of Index Numbers, Index numbers as indices of wellbeing, Stock market indices.	NS	6	
Feb 2019	2. Measures of Central tendency The mean, median, mode and other quartiles Measures of	EH	12	TUTORIAL EH-2

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	Central Tendency: mean, median, mode; geometric mean, harmonic mean, their relative merits and demerits			NS-2
	9. Vital statistics Measures of crude birth rate, death rate, age sex specific birth and death rates; infant mortality rate; construction and use of life table. 5. Bivariate frequency distribution Simple Correlation: scatter diagram, sample correlation coefficient - Karl Pearson's correlation coefficient and its properties,	NS	5	
March 2019	3. Measures of Dispersion Measures of Dispersion: absolute and relative - range, mean deviation, standard deviation, coefficient of variation, quartile deviation, their merits and demerits. 5. Bivariate frequency distribution Probable error of correlation coefficient, Spearman's rank correlation coefficient, partial and multiple correlation, Regression Analysis: Properties of linear regression, explained and unexplained variation regression in bivariate frequency distribution.	EH	13	TUTORIAL EH-3 NS-1
April 2019	4. Measures of Skewness and Kurtosis Interpolation and Extrapolation. 6. ANOVA Tables (concepts only) 7. Time series Components, measurement of trend and statistical fluctuations; Two variable linear curve fitting analysis - estimation of regression lines (Least square method) and regression coefficients - their interpretation and properties, standard error of estimate.	EH	12	TUTORIAL EH-2 NS-1
May 2019	REVISION	EH	4	
	REVISION	NS	2	
			76	15

Resources :

Books:

1. Kenny and Keeping : Mathematical Statistics, Part 1 & Part II
2. Croxton, Cowden and Klein : Applied Statistics, Prentice Hall; Applied General Statistics. 3d. ed., Prentice-Hall, Inc., 1960.
3. Das, N.G., Statistical Methods, The E World Press Pvt. Ltd., Calcutta.
4. Fundamentals of Statistics: Goon, Gupta, Dasgupta, The World Press, 1996
5. M. R. Saluja: Indian Official Statistical Systems.

Lesson Plan for Course: DSC-I**Code: ECOGCOR01T****Credit: 6**

- Course coordinator EKBAL HOSSAIN

- **Course Outcome**

After completion of this course the students will be able to understand:

CO1: The factors that determine the demand for a product by a consumer and how consumer maximises utility subject to budget constraint .

CO2: How a business firm decides its output production in short run and long run by considering various costs of production to maximise profit .

CO3: The characteristic features of different types of output market structure where buyers and sellers interact.

CO4: The determination of prices of different factors of production in factor market .

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks
July 2018	1. Basic Concepts What is economics? Scope and method of economics; the economic problem: scarcity and choice; Distinction between Microeconomics and Macroeconomics; Concept of Market, Demand & Supply – Market equilibrium. Elasticity of Demand : Price elasticity of Demand- Factors affecting the price elasticity of demand-Measurement of point price elasticity of demand .	EH	7	TUTORIAL EH-2
	6. Theory of Distribution (i) Marginal Productivity Theory of Distribution (ii) Rent : (a) Ricardian Theory	AKR	3	
	3. Producers' Behaviour Concept of Production- Factors of Production- Production Function .	NS	2	
Aug 2018	1. Basic Concepts Measurement of Arc elasticity- Income elasticity of demand. 2. Consumers' Behaviour Marginal Utility- Law of Diminishing Marginal Utility- Derivation of demand curve from marginal utility curve- Consumers' surplus. Indifference curve: Definition and Characteristics – Budget line –Consumers'Equilibrium.	EH	12	TUTORIAL EH-3 AKR-1 NS-1
	6. Theory of Distribution (ii) Rent : (b) Modern Theory , (c) Quasi- Rent.	AKR	3	
	3. Producers' Behaviour Concepts of TP, AP and MP. Derivation of AP and MP curve graphically from TP curve.	NS	3	
Sept 2018	2. Consumers' Behaviour Income effect and Substitution effect- Graphical presentation to show Price effect is the summation of Income effect and Substitution effect- Inferior goods and Giffen goods. 4. Market Structure : Perfect Competition Characteristics of Perfectly Competitive Market.	EH	12	TUTORIAL EH-3 AKR-1 NS-1
	6. Theory of Distribution (iii) Wage: Marginal Productivity Theory of Wages – Role of	AKR	2	

	Trade Union in Wage Determination under Competitive Set up.			
	3. Producers' Behaviour Law of Variable Proportions- Isoquants and its Properties.	NS	3	
Oct 2018	4. Market Structure :Perfect Competition Short –run and Long-run equilibrium of Perfectly Competitive firm and industry.	EH	6	TUTORIAL EH-1
	6. Theory of Distribution (iv) Interest: Real and Monetary Interest Rate – Lovable Fund Theory of Interest Rate – Liquidity Theory of Interest Rate.	AKR	2	
	3. Producers' Behaviour Expansion Path- Laws of Returns to Scale.	NS	1	
Nov 2018	5. Market Structure: Imperfect Competition Concept and Characteristics of Monopoly Market – Degree of Monopoly Power. Monopolistic competition and Oligopoly - Features and example.	EH	6	TUTORIAL EH-2
	6. Theory of Distribution (v) Profit: Gross Profit and Net Profit – Difference Between Profit and Other Factor Incomes.	AKR	2	
	3. Producers' Behaviour Concepts of Revenue- TR, AR, MR. Derivation of AR and MR curve from TR curve – Relation concerning AR, MR and Elasticity of Demand.	NS	2	
Dec 2018	REVISION	EH	9	
	REVISION	AKR	2	
	REVISION	NS	3	
	TOTAL		80	15

Resources :

Books:

1. Lipsey ,R.G – An Introduction to Positive Economics .Widenfeld and Nicholson ,London.
2. Ahuja , H.L – Advanced Economic Theory.
3. Stonier Hague – Economics
4. Mukherjee, Debes – Essentials of Micro and Macroeconomics New Central Book Agency (P) Ltd.
5. Dewett , K.K –Modern Economic Theory
6. Sharkhel-Microeconomic Theory

Lesson Plan for Course :DSC-II/GE-II Code : ECOGCOR02T & ECOHGEC02T Credit:06

- Course coordinator: EKBAL HOSSAIN

- Course Outcome

After completion of this course the students will be able to understand :

CO1: The three key macroeconomic concepts for a closed economy, namely, economic growth (and how it is measured in terms of GDP and National Income), Inflation (its different types and how it is influenced by money supply) and unemployment (how it can be present in Classical and Keynesian macroeconomic system)

CO2: The idea of two important component of GDP, namely, Consumption and Investment .

For 1+1+1 System

CO3: The money and banking system of an economy.

Course planner

Sl	Course Topic	Teacher	Class-hour	Remarks*
Jan 2019	1. National Income National Income and its measurement- different methods and their drawbacks; GDP and GNP; Difference between Nominal and real GNP/GDP; GNP/GDP as a true index of Nation's welfare.	EH	12	TUTORIAL EH-3
	3. Money and banking (i) Functions of Money – Value of Money .	AKR	3	
	4. Inflation Concepts of Inflation, Deflation and Stagflation .	NS	3	
Feb 2019	1. National Income Difference between Nominal and real GNP/GDP; GNP/GDP as a true index of Nation's welfare. Concept of HDI.	EH	12	TUTORIAL EH-3 AKR-1 NS-1
	3. Money and banking Different Concepts of Money : M ₁ , M ₂ , M ₃ and M ₄ .	AKR	2	
	4. Inflation Inflationary Gap – Distinction between Demand Pull and Cost Push Inflation.	NS	2	
March 2019	2. Macro economic theories (i) Classical Macro economic theory and Keynesian Theory (concepts and historical background, how they are different).	EH	13	TUTORIAL EH-3 AKR-1
	3. Money and banking (ii) Concepts of Bank and Non-bank Financial Intermediaries – Functions and Credit Creation of Commercial Banks.	AKR	3	
	4. Inflation Effects of Inflation .	NS	3	
April 2019	2. Macro economic theories (ii) Simple Keynesian Model (SKM) of Income Determination- Consumption Function – Relation between Average and Marginal Propensity to Consume - Multiplier Theory .	EH	10	TUTORIAL EH-3 NS-1
	3. Money and banking Central Bank-Functions and Credit Control Measures.	AKR	3	
	4. Inflation Anti-inflationary Fiscal and Monetary Policies.	NS	3	
May 2019	REVISION	EH	4	
	REVISION	AKR	1	
	REVISION	NS	1	
			75	16

Resources :

Books:

1. Gupta , S.B – Monetary Economics , S.Chand& Co. , New Delhi
2. Ahuja , H.L - Macroeconomics
3. Mukherjee ,Debes – Essentials of Micro and Macroeconomics, New Central Book Agency (P) Ltd.

