

To

The Principal Secretary to Governor
Governor's Secretariat, Bihar
Patna


Ref: Memo no. BSU (UGC) 02/2023-1457 GS (I) Dated-14.09.2023

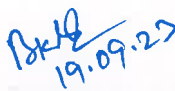
Sir,

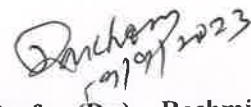
With reference to your letter Memo no.- BSU (UGC) 02/2023-1457 GS (I) Dated-14.09.2023, we are herewith submitting one set of prepared syllabus for 4 year undergraduate courses (Bachelor of Arts-Economics) based on CBCS to you for your perusal and consideration.

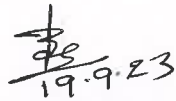
Following members were authorized by your above reference letter.


With kind regards,



Prof. (Dr.) Dharendra Kumar Singh
Professor, PG Deptt. of Economics, VKSU, Ara

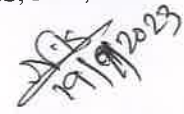

Prof. (Dr.) B. K. Lal
University Deptt. of Economics, Patna University, Patna

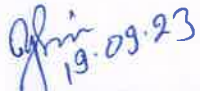

Prof. (Dr.) Rashmi Akhoury,
Deptt. of Economics, COCAS, PPU, Patna



Prof. (Dr.) Umesh Prasad,
Professor, Deptt. of Economics, COCAS, PPU, Patna



Dr. Siddharth Bhardwaj,
Assistant Professor, Deptt of Economics Patna College, Patna University, Patna

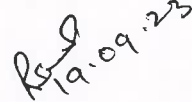

Dr. Manoj Prabhakar,
Assistant Professor, University Deptt. of Economics, Patna University, Patna



Prof. (Dr.) Nisha Kumari,
PG Deptt. of Economics, TMBU, Bhagalpur



Dr. Yadawendra Singh,
Assistant Professor, C.M. College, L.N. Mithila University, Darbhanga


Dr. Sourav Kumar,
Assistant Professor, University Deptt. of Economics, Magadh University, Bodh Gaya


Prof. (Dr.) Rajeshwar Prasad Shrivastava,
PG Deptt. of Economics, J.P. University, Chhapra


Prof. (Dr.) Ranjana Singh,
RD & DJ College, Munger University, Munger


Dr. Shahid Hussain,
Associate Professor, PG Deptt. of Economics, BNMU, Madhepura


Prof. (Dr.) Alok Pratap Singh,
Deptt. of Economics, RDS College, Muzaffarpur

Semester III
MJC- 3: INTRODUCTORY MACROECONOMICS
(Credit: 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Develop a proper and in- depth understanding of variables dealing with the aggregate economy.
- CO2: Analyse the basics of National Income Accounting, which will help them to describe and analyze the economy in quantitative terms.
- CO3: Understand the major issues and concerns of the economy such as unemployment, inflation, poverty and economic growth.
- CO4: Describe Functions of Money and Determination of Money Supply and Demand

Unit	Topics to be covered	No. of Lectures
1	Introduction to Macroeconomics and National Income Accounting The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues ,the Role of Government in Macroeconomics ,the components of Macroeconomics ,methodology to macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP, concept of social accounting, limitations of GDP as a measure of social welfare, difficulties in measuring national income in developing economies ,GDP and black economy ,concept of base year and GDP index	20
2	Money and Banking Functions of money; quantity theory of money; fundamental equations; Keynesian theory of money and prices, determination of money supply and demand; Central banking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	20
3	The Closed Economy in the Short Run Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination , Aggregate supply and demand , fiscal and monetary multipliers, limitation and Relevance of Keynesian economics to developing economy	20
TOTAL		60

Suggested Readings:

- Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 11th edition, 2010.
- N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 7th edition, 2010.
- Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 5th edition, 2009.
- Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2nd edition, 2005.
- Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition, 2011.

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SEMESTER - III
MJC- 4: STATISTICAL METHODS IN ECONOMICS
(Credit: 4)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Learn the Basic Concepts of statistics and its application
- CO2: Understand Bayes Theorem, Normal Distribution, Poisson Distribution
- CO3: Understand Elementary Probability Theory including Probability Distribution
- CO4: Apply the methods of calculating covariance and also the concept of correlation coefficient and regression analysis

Unit	Topics to be covered	No. of Lectures
1	Basic Statistics Measures of Central Tendency: Mean, Median Mode, Geometric Mean, Harmonic Mean; Measures of Dispersion: Mean Deviation, Quartile Deviation, Standard Deviation; Moments, Skewness, Kurtosis, Gini coefficient, Lorenz Curve, Bivariate Frequency Distribution: Simple Correlation and Linear Regression Analysis	20
2	Index Number Concept of Index Number, Laspeyre's Paasche's and Fisher's Ideal Index Number, Tests for Ideal Index Number, Problems in Construction of Index Number, Applications: Cost of living index Number	10
3	Concept of Probability and Probability Distribution: Sample space and events; probability axioms and properties; Concept of random variable, Addition and Multiplication Theorem, Conditional Probability and Bayes Theorem Probability Distributions: Binomial, Poisson and Normal Distribution-properties, mean and variance.	15
4	Sampling Theory and Estimation Concept of Sampling, Methods of Sampling, Types of Sampling, Concept and properties of an estimator, Point and Interval Estimation.	5
	TOTAL	50

Suggested Readings:

Jay L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.

John E. Freund, Mathematical Statistics, Prentice Hall, 1992.

Gupta S.P, Statistical Methods, S.Chand & Sons, New Delhi.

Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.

Richard J. Larsen and Morris L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.

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SEMESTER- IV
MJC- 5: INTERMEDIATE MICROECONOMICS 1
(Credit: 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Frame their budget according to their income and price constraint.
- CO2: Develop knowledge about how the prices are determined in different forms of market.
- CO3: Apply Demand and Supply Analysis to Market.
- CO4: Deal with the concept of Consumer Behavior.

Unit	Topics to be covered	No. of Lectures
1	Ordinal Utility Analysis: Concept, Assumptions, Tools: Indifference curve and Budget line, income effect, substitution effect and price effect for normal and inferior goods, Slutsky equation and Hicksian Substitution effect; Revealed preference theory, deriving demand theorem from the Revealed Preference Hypothesis and critical appraisal of Revealed Preference Hypothesis. Revision of Demand Theory: weak and strong ordering, Recent development in Demand Theory.	20
2	Production, Costs and Revenue Analysis Production with one and more variable inputs; law of variable proportion, returns-to scale, optimum factor combination, Production possibility curve, elasticity of substitution Traditional and Modern approaches to cost Behaviour of Cost and Revenue curves under different market conditions , Internal and external economies and diseconomies of scale, Concept, assumptions, characteristics and types of Production function with examples, estimation and their applications: Homogeneous, Linear Homogenous and Cobb-Douglas Production Function, Production function and technological change.	20
3	Perfect Competition and Monopoly Review of perfect competition: features, price and output determination under perfect competition in short and long run, total and marginal approach. Monopoly: features, conditions for existence of monopoly, price and output determination under monopoly, measurement of the degree of monopoly power, pricing with market power; price discrimination; government policies towards monopoly and competition	20
	TOTAL	60

Suggested Readings:

Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.

C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.

B. Douglas Bernheim and Michael D. Whinston, *Microeconomics*, Tata McGraw- Hill (India), 2009

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SEMESTER - V
MJC 8: INTERMEDIATE MICROECONOMICS 2
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Differentiate between Partial and General Equilibrium
- CO2: Analyse the behavior patterns of different economic agents and market situations
- CO3: Understand Imperfect Competition and Distribution theory
- CO4: Learn about Externalities and Market Failure

Unit	Topics to be covered	No. of Lectures
1	Imperfect Markets Imperfect markets :common features, price and output determination in monopolistic competition, concept of excess capacity, non price competition: selling cost and advertising, cost plus(mark up)pricing theory, various approaches to price and output determination under Oligopoly-classical models of oligopoly: duopoly Cournot model, collusive oligopoly: cartel and price leadership, basic idea of kinked demand curve.	20
2	Distribution Theory (Pricing of Factors) Concepts of factor productivity, Marginal Revenue Product (MRP) and Value of Marginal Product (VMP), pricing of factors in perfect and imperfect market, Marginal productivity theory of distribution, Euler's theorem and product exhaustion problem, technological progress and factor shares in income, some major theories of distribution: Ricardian theory of rent, modern concept of rent, quasi rent, Classical and Keynesian theory of interest, Innovation theory of profit, Knight's theory of profit.	10
3	Market Failure Concept and causes of market failure, correction of market failure,,market failure and market imperfections, market failure vs. government failure, Externalities in production and consumption, Coase Theorem, public goods, semipublic goods, private goods, merit and demerit goods , markets with asymmetric information.	15
4	General Equilibrium, Efficiency and Welfare Concept of Partial and General Equilibrium, Welfare concept, Walrasian General Equilibrium, concept and conditions of Pareto Optimality, perfect competition and Pareto Optimality, perfect market asefficient market: existence and stability of equilibrium under perfect competition,	15
TOTAL		60

Suggested Readings:

Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
 C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.
 B. Douglas Bernheim and Michael D. Whinston, *Microeconomics*, Tata McGraw- Hill (India), 2009.
 A. Ahsan, C. Pages and T. Roy, 2008, -*Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins, Consequences and the Way Forward*, in D. Mazumdar and S. Sarkar, editors, *Globalization, Labour Markets and*

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A.P. Thirlwall, Economics of Development, Palgrave Macmillan, 9th Edition.
 M. L. Taneja & R.M. Myer, Economics of Development & Planning, Vishal Publishing Co. Jalandhar-Delhi.

SEMESTER - VII
MJC -13: ADVANCED QUANTITATIVE METHODS
(Credit - 5)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Develop analytical and organizational skills.
- CO2: Use mathematical techniques to analyze the economic problems and their effects.
- CO3: Use Differential and Different Equations in Economics.
- CO4: Use multi-Variable Optimization.

Unit	Topics to be covered	No. of Lectures
1.	Integration: Concept and Methods of Integration – Integration by Substitution, Integration by Transformation & Integration by Parts; Application of Integration in Economics.	10
2	Functions of Several real Variables: a. Technique of Partial Differentiation; Second Order Partial Derivatives; Cross Partial Derivatives; Applications of Partial Derivatives in Demand, Utility and Production Analysis. b. Technique of Total Differentials; Second order Total Differentials; Derivatives of Implicit Functions	6
3	Multi-Variable Optimization: a. Maxima and Minima of a Function of two or more than two Variables – Hessian Determinants. b. Unconstrained Optimization and Constrained Optimization with Equality Constraints – Use of Lagrange Multiplier. c. Applications of Unconstrained and Constrained Optimization in Economics – Equilibrium of Firm under Pure Competition.	8
4	Linear Algebra: Basic Concepts of Vector, Types of Vector, Addition of Vectors, Scalar Product of Two Vectors. Matrix and Determinants: Types of Matrices, Addition and Subtraction of Matrices, Multiplication of two Matrices, Transpose and Inverse of a Matrix, Rank of a matrix, Determinant and its Properties, Solution of Simultaneous Equation Models.	8
5	Linear Programming, Input Output Model and Game Theory- Introduction to linear programming, formulation of linear programming problem, concept of duality, solution of linear programming through graphical method. Input-output analysis- meaning and basic concept Game theory- concepts, strategies- dominant strategy, saddle point, zero-sum game.	16
6.	Correlation, Regression and Time Series Analysis a. Partial and Multiple Correlation b. Partial and Multiple Regression c. Time Series Analysis: Components of Time Series and Measurement of Trends	12
	Total	60

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5	Central Banking and Monetary Policy Role of central banks in developed and developing countries; Functions of a central bank; Role and functions of the Reserve Bank of India; methods of credit control: Quantitative- bank rate, repo rate, open market operations, variable reserve ratio and selective methods; Objectives and limitations of monetary policy; NPA's , Recent changes in monetary policy of India.	20
	TOTAL	80

Suggested Readings:

- F. S. Mishkin and S. G. Eakins, *Financial Markets and Institutions*, Pearson Education, 6th edition, 2009.
 F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, *Foundations of Financial Markets and Institutions*, Pearson Education, 3rd edition, 2009.
 M. R. Baye and D. W. Jansen, *Money, Banking and Financial Markets*, AITBS, 1996.
 Rakesh Mohan, *Growth with Financial Stability- Central Banking in an Emerging L. M. Bhole and J. Mahukud, Financial Institutions and Markets*, Tata McGraw Hill, 5th edition, 2011.
 M. Y. Khan, *Indian Financial System*, Tata McGraw Hill, 7th edition, 2011.
 N. Jadhav, *Monetary Policy, Financial Stability and Central Banking in India*, Macmillan, 2006.
 R.B.I. – *Report of the Working Group: Money Supply Analytics and Methodology of Compilation*, 1998.
 R.B.I. Bulletin, Annual Report and Report on Currency and Finance (latest).

SEMESTER - VIII
MJC -16: ECONOMICS OF HEALTH AND EDUCATION
(Credit - 4)

Course Outcomes

After the completion of the course, the student will be able to:

- C01: Understand the relevance of health and education in human development
 C02: Analyse the microeconomic foundations of health and educational economics
 C03: Evaluate the progress of health sector in the country
 C04: Assess the issues of Human Resource Development in India

Unit	Topics to be covered	No. of Lectures
1	Role of Health, Hygiene and Education in Human Resource Development Importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance, Importance of Hygiene	10
2	Microeconomic Foundations of Health Economics Demand for health; uncertainty and health insurance market; alternative insurance mechanisms; market failure and rationale for public intervention; equity and inequality. Costing, cost effectiveness and cost-benefit analysis; burden of disease.	15
3	Health Sector in India: An Overview Health outcomes; health systems; health financing, Mental Health in India: Concept and issues.	10

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2	Indian Agriculture, Industry and Service Sector Importance of Agriculture in Indian economy, Problems in Indian Agriculture and their possible solutions, Efforts by the Government for upliftment of Indian Agriculture, Land Reforms; Green and Rainbow Revolution; Industrial policies in India since independence, Importance of small scale industries in India, problems, remedies, industrial sickness in India, Services Sector: growth and Present status, Foreign Trade in India - Composition and Direction	20
3	Bihar Economy: Demographic features, Poverty and Unemployment, Growth and problems of Farm sector, Development of Industrial sector, Major policy initiatives for development.	10
TOTAL		40

Suggested Readings:

1. Shankar Acharya, 2010, -Macroeconomic Performance and Policies 2000-8, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.
2. Rakesh Mohan, 2010, -India's Financial Sector and Monetary Policy Reforms, in Shankar Acharya and Rakesh Mohan, editors, *India's Economy: Performances and Challenges: Development and Participation*, Oxford University Press.
3. Pulapre Balakrishnan, Ramesh Golait and Pankaj Kumar, 2008, -Agricultural Growth in India Since 1991, *RBI DEAP Study no. 27*.
4. Kunal Sen, 2010, -Trade, Foreign Direct Investment and Industrial Transformation in India, in Premachandra Athukorala, editor, *The Rise of Asia*, Routledge.

SEMESTER - VI
MIC 8: INTERMEDIATE MICROECONOMICS 2
(Credit - 3)

After the completion of the course, the student will be able to:

- CO1: Differentiate between Partial and General Equilibrium
CO2: Analyse the behavior patterns of different economic agents and market situations
CO3: Understand Imperfect Competition and Distribution theory
CO4: Learn about Externalities and Market Failure

Unit	Topics to be covered	No. of Lectures
1	Imperfect Markets Imperfect markets: Common features, price and output determination in monopolistic competition, various approaches to price and output determination under Oligopoly-classical models of oligopoly: duopoly Cournot Model, collusive oligopoly: cartel and price leadership, basic idea of kinked demand curve.	15

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2	Distribution Theory (Pricing of Factors) Concepts of factor productivity, Marginal Revenue Product (MRP) and Value of Marginal Product (VMP), pricing of factors in perfect and imperfect market, Marginal productivity theory of distribution, Euler's theorem, theories of rent, interest and profit.	10
3	General Equilibrium, Efficiency and Welfare Concept of Partial and General Equilibrium, Welfare concept, Walrasian General Equilibrium, concept and conditions of Pareto Optimality, perfect competition and Pareto Optimality, Externalities in production and consumption, Public Goods, Concept and causes of market failure, correction of market failure.	15
	TOTAL	40

Suggested Readings:

1. Hal R. Varian, *Intermediate Microeconomics, a Modern Approach*, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
2. C. Snyder and W. Nicholson, *Fundamentals of Microeconomics*, Cengage Learning (India), 2010.
3. B. Douglas Bernheim and Michael D. Whinston, *Microeconomics*, Tata McGraw- Hill (India), 2009.
4. A. Ahsan, C. Pages and T. Roy, 2008, *-Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins, Consequences and the Way Forward*, in D. Mazumdar and S. Sarkar, editors, *Globalization, Labour Markets and Inequality in India*, Routledge.
5. Dipak Mazumdar and Sandeep Sarkar, 2009, *-The Employment Problem in India and the Phenomenon of the Missing Middle*, *Indian Journal of Labour Economics*.
6. J. Dennis Rajakumar, 2011, *-Size and Growth of Private Corporate Sector in Indian Manufacturing*.
7. *Economic and Political Weekly*, April.

SEMESTER - VII
MIC – 9: PUBLIC FINANCE
(Credit - 4)

Course Outcomes

After the completion of the course, the student will be able to:

- CO1: Understand the importance of Public finance
CO2: To understand the implications of fiscal policy
CO3: To analyse the trends and composition of public expenditure in India
CO 4: To understand the importance of Fiscal Federalism

Unit	Topics to be covered	No. of Lectures
1.	Introduction to Public Finance Public Finance: Meaning, Nature, Scope and Importance; difference between Private and Public Finance; Principle of Maximum Social Advantage; Role of State in Public Finance. Fiscal functions of State: Allocation, Distribution, Economic Growth and Stabilisation.	15

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2	Theories of International Trade Absolute and Comparative advantage, Opportunity cost theory, Ricardian and Heckscher-Ohlin Model, Leontief's Paradox, Immiserising Growth and the Transfer Problem.	10
3	Exchange rate and BoP Concept and types of Exchange rate, Theories of Exchange rate determination, fixed vs. flexible exchange rate, factors affecting exchange rate, impact of exchange rate on economy, market for foreign exchange, Review of Balance of Payment (BoP) accounting, components of BoP: current and capital account, Disequilibrium of BoP: causes and methods of correction, Adjustment mechanisms, Internal and external balance, Elasticity, Absorption and Monetary Approach to BoP.	18
4	International Institutions: WTO, IMF, World Bank, ADB, New Development Bank: Objectives, principles and functions.	7
TOTAL		50

Suggested Readings:

1. Paul Krugman, Maurice Obstfeld, and Marc Melitz, *International Economics: Theory and Policy*, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.
2. Dominick Salvatore, *International Economics: Trade and Finance*, John Wiley International Student Edition, 10th edition, 2011.

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- Prakash 19/9/23
- Sanchez 19/9/2023
- RSB 19.09.23
- S. S. 19/9/23
- Agini 19.09.23
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SEMESTER - II
MDC- 2: INTRODUCTORY MACROECONOMICS
(Credit: 3)

After the completion of the course, the student will be able to:

- CO1: Develop a proper and in- depth understanding of variables dealing with the aggregate economy.
- CO2: Analyse the basics of National Income Accounting, which will help them to describe and analyze the economy in quantitative terms.
- CO3: Understand the major issues and concerns of the economy such as unemployment, inflation, poverty economic growth.
- CO4: Describe Functions of Money and Determination of Money Supply and Demand

Unit	Topics to be covered	No. of Lectures
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1	Introduction to Macroeconomics and National Income Accounting The Origin and Roots of Macroeconomics, Need and relevance of Macroeconomics, Scope of the Subject, Macroeconomic concerns and issues ,the Role of Government in Macroeconomics ,the components of Macroeconomics ,the methodology to macroeconomics, Circular flow of Income, The Concepts of National income: GDP, GNP, NNP, NNP at factor cost, Personal income, private income and personal disposable income, approaches to calculating GDP, Nominal and real GDP, Green GDP	15
2	Money and Banking Functions of money; quantity theory of money; Central banking: history, objectives, functions, relevance, performance, tools of monetary policy; Concept and history of commercial banking - functions, distribution of assets and credit creation.	15
3	The Closed Economy in the Short Run Classical and Keynesian systems; simple classical system of output and employment, Keynesian model of income determination , concept of multipliers, Relevance and limitations of Keynesian economics to developing economy	10
TOTAL		40

Suggested Readings:

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. Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition, 2011.

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