

Approved by the Vice-Chancellor U/S 11(7) of University Act, 2014

CHAUDHARY RANBIR SINGH UNIVERSITY, JIND
DEPARTMENT OF ECONOMICS
M. A. ECONOMICS CBCS SCHEME
SCHEME AND SYLLABUS

The entire two years course will be divided into four semesters. In Semester I, there will be four core courses, one foundation and one Discipline Centric Elective course. In semester II, there will be five core courses and one open elective course as per CBCS scheme. In semester III, there would be four core courses and five Discipline Centric Elective Courses and one open elective course. In semester IV, four core courses and five Discipline Centric Elective Courses. Each student has to choose any two out of five Discipline Centric Elective Courses. In case a student has opted for Econometrics I in semester III, she/he will continue with Econometrics II in Semester IV. P* is stands for practical

Course code	Nature	Nomenclature of the Course	Semester I					External marks	Internal marks/P*	Maximum Marks (credits)
			Lectures	Tutorial	Practical	Credits				
18MECOC-101	Core	Micro Economics-1	4	1	0	5	80	20	100 (5)	
18MECOC-102	Core	Macro Economics-1	4	1	0	5	80	20	100 (5)	
18MECOC-103	Core	Mathematics for Economists-1	4	1	0	5	80	20	100 (5)	
18MECOC-104	Core	Statistical Methods-1	4	1	0	5	80	20	100 (5)	
18MECOF-105	Foundation/ decided by the competent authority	History of Economic Thoughts	4	1	0	5	80	20	100 (5)	
18MECCOE-106	Discipline Centric Elective Courses	Choose any one Course								
		(i) Labour Economics	4	1	0	5	80	20	100 (5)	
		(ii) Economics of Population	4	1	0	5	80	20	100 (5)	
		(iii) Computer Applications in Economics	3	1	1	5	60	0/40	100 (5)	
Total Credits							30			

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Semester II											
Course code	Nature	Nomenclature of the Course	Lectures	Tutorial	Practical	Total class	External marks	Internal marks/P**	Maximum Marks (credits)		
18MECOC-201	Core	Micro Economics-II	4	1	0	5	80	20	100 (5)		
18MECOC-202	Core	Macro Economics-II	4	1	0	5	80	20	100 (5)		
18MECOC-203	Core	Mathematics for Economics-II	4	1	0	5	80	20	100 (5)		
18MECOC-204	Core	Statistical Methods-II	4	1	0	5	80	20	100 (5)		
18MECOC-205	Core	Public Economics	4	1	0	5	80	20	100 (5)		
18MECOC-206	Open Elective	Indian Economy/as decided by the competent Authority	4	1	0	5	80	20	100 (5)		
Total Credits									25		

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Semester III										
Course code	Nature	Nomenclature of the Course	Lectures	Tutorial	Practical	Total class	External marks	Internal marks/P+	Maximum Marks (credits)	
18MECOC-301	Core	International Economics-I	4	1	0	5	80	20	100 (5)	
18MECOC-302	Core	Growth and Development-I	4	1	0	5	80	20	100 (5)	
18MECOC-303	Core	Environmental Economics	4	1	0	5	80	20	100 (5)	
18MECOC-304	Core	Indian Economy-I	4	1	0	5	80	20	100 (5)	
18MECOC-305	Discipline Centric Elective Courses		4	1	0	5	80	20	100 (5)	
18MECOC-305(a)		(i) Industrial Economics-1	4	1	0	5	80	20	100 (5)	
18MECOC-305(b)		ii) Econometrics-1	4	1	0	5	80	20	100 (5)	
18MECOC-305(c)		iii) Computer Applications in Research	3	1	1	5	60	0/40	100 (5)	
18MECOC-305(d)		(iv) Financial Institutions and Markets-1	4	1	0	5	80	20	100 (5)	
		(v) Agricultural Economics-1	4	1	0	5	80	20	100 (5)	
18MECOC-306	Open Elective to be offered for other Discipline	Gender Economics /As decided by the competent Authority	4	1	0	5	80	20	100 (5)	
Total Credit						30				

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Semester IV										
Course code	Nature	Nomenclature of the Course	Lectures	Tutorial	Practical	Total class	External marks	Internal marks/P*	Maximum Marks (credits)	
8MECOC-401	Core	International Economics-II	4	1	0	5	80	20	100 (5)	
18MECO1C-402	Core	Growth and Development-II	4	1	0	5	80	20	100 (5)	
18MECOC-403	Core	Monetary Economics	4	1	0	5	80	20	100 (5)	
18MECOC404	Core	Indian Economy-II	4	1	0	5	80	20	100 (5)	
18MECOE-405	Discipline Centric Elective Courses	Choose any two courses								
18MECOE-405(a)		(i) Industrial Economics-II	4	1	0	5	80	20	100 (5)	
18MECOE-405(b)		(ii) Econometrics-II	4	1	0	5	80	20	100 (5)	
18MECOE-405(c)		iii) Welfare Economics	3	1	1	5	60	0/40	100 (5)	
18MECOE-405(d)		(iv) Financial Institutions and Markets II	4	1	0	5	80	20	100(5)	
18MECOE-405(e)		(v) Agricultural Economics-II	4	1	0	5	80	20	100 (5)	
Total Credits						30				

*Computer Applications in Economics, Computer Applications in Research will contain one practical file of 20 marks, one practical of 10 marks and Viva-Voce of 10 marks.

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SEMESTER-I

Semester-I
18MECOC-101: Micro Economics-I (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Theory of Consumer Behavior; Nature and Scope of Micro Economics; Demand analysis: Demand Function, Law of Demand, Market Demand Curve, Exception of Law of Demand, Elasticity of Demand (Price, Cross, Income); Supply, Law of Supply; Theories of Consumer Behavior: Cardinal, Ordinal and Revealed Preference Theory; Slutsky and Hicks Price and Income Effect.

Unit-II

Theories of cost and production; Concept of Cost: Theories of cost: Traditional and Modern Theory; Production Function, Laws of Production: short run and long run; Economies of scale Internal and External economies and diseconomies. Optimum input combination for single & multiproduct firm. Technical progress and production function. Properties of Cobb-Douglas and CES production function. Cost Functions.

Unit-III

Market: Price and Output Determination; Pricing process and equilibrium of firm and industry under perfect competition, monopoly (including discriminating and bilateral monopoly), monopolistic competition. Welfare effects of price control, price support and production quota.

Unit IV

Market: Collusive & non-collusive; Oligopoly: Collusive & non-collusive oligopoly- Cournot, Bertrand, Chamberlin, Kinked-demand curve and Stackleberg solution. Collusive models- Market sharing cartels; Price leadership models.

Suggested Readings:

1. Mas-Colell, Andreu, Michael D. Whinston and Jerry R. Green, (1995). Microeconomic Theory, New York.
2. Jehle & Renne (2011). Advanced Microeconomic Theory, Pearson Education, India. 3rd Edition
3. Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory, McGraw Hill, New York.
4. Pindyck Robert S Ruben Feld Daniel, Mehta (2009) "Microeconomics, Prentice Hall of India, 7th Edition.
5. Mankiw Gregory N (2017), "Micro Economics" Clengage Learning; 8th Edition
6. Koutsoyiannis A (2003), "Modern Micro-Economics", McMillan Press London; 2nd Edition.
7. Kreps, David M. (2012), "A Course in Microeconomic Theory", Princeton University Press, Princeton.
8. Sen, A. (2006), "Microeconomics: Theory and Applications, Oxford University Press, New Delhi, 2nd Edition.
9. Varian, H. (2000), "Microeconomic Analysis", W.W. Norton, New York 3rd Edition.

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Semester-I
18MECOC-102: Macro Economics-I (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Determination of Output and Employment: Classical Theory; Social Accounting; The Quantity Theory of Money and the Price Level; Classical Model without saving and investment; Classical Model with saving and investment; Keynesian Approach: Two Sector Model, Three Sector Model and Four Sector Model. Consumption Function: Nature and Determinants; Keynesian Psychological Law of Consumption- Implications of law; Types of Investment, Investment Function, Determination of Investment,

Unit-II

Consumption and Investment theories; Consumption Theories: Reconciliation of short run and long run consumption function-Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income hypothesis, Life Cycle Income Hypothesis. Theories of Investment: Marginal Efficiency of Capital; Investment Multiplier Theory; Accelerator Theory of Investment; Jorgenson's Theory of Investment; Super Multiplier

Unit-III

Determination of Output and Employment: The Extended Model (Hicks-Henson Synthesis): Fixed Price Level — The goods Market and The Money Market; Equilibrium in Goods Market and Money Market; Changes in Aggregate Demand; Govt. spending, Taxation and Aggregate Demand. Demand for Money- Keynesian Approach; Post Keynesian Approaches: Friedman, Baumol and Tobin;

Unit-IV

Macroeconomic Policies; The Extended Model: Variable Price Level — Deviation of Aggregate Demand Curve and Determination of equilibrium price and output levels; wage-price flexibility and the Full Employment equilibrium; Monetary — Fiscal policies and the Full-Employment Equilibrium; Neoclassical — Keynesian synthesis; Monetarism; Role of Expectation; Expectation Augmented Phillips Curve; Monetary V/s Fiscal Policy Debate; New Classical Macro Economic Critique.

Suggested Readings:

1. Brooman, F. S. (1975). Macro Economics, George Allen and Unwin Ltd., London. 5th Edition.
2. Dornbusch, R. (1980). Open Economy, Macro Economics, Basic Books, New York.
3. Dorn Busch, R. and F. Stanley (2013), "Macroeconomics", McGraw Hill, Inc. New York, 12th Edition.
4. Shapiro E (2017), "Macroeconomic Analysis", Galgotia Publications, New Delhi, 12th Edition
5. Rana and Verma (2014), "Macroeconomic Analysis", Vishal publications, 11th Edition.
6. Ackley, G (1978), "Macroeconomics: Theory and Policy, Macmillan, New York.
7. Benson, W.A. (2005), "Macroeconomic Theory and Policy", Harper and Row, New York, 3rd Edition.
8. Peterson, W.C. (1996), "Income Employment and Economic Growth", Norton, New York, 8th Edition.
9. Sheffrin, Steven M. (2012), "Rational Expectations", Cambridge University Press, 2nd Edition.
10. Mankiw, N. Gregory (2012), "Macroeconomics", Macmillan worth Publishers, 8th Edition.
11. Dernburg, T.F. and D. M. McDougall, (2000), "Macroeconomics", McGraw Hill International Book Company.

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Semester-I
18MECOC-103: Mathematics for Economists-I (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Basic Concepts: Variable- Endogenous and Exogenous, Constant and Parameter, Real Number System; Function- Inverse, Logarithmic and Exponential, Demand, Supply, Cobb Douglas and CES Production Function; Limit and Continuity, Equations- Simple, Quadratic and Simultaneous with their Economic Applications

Unit-II

Matrices: Meaning, Types of Matrices, Transpose, Adjoint, Inverse of Matrices; Determinants, Solution of a System of Two and Three Equations by Matrix Method and Cramer Rule and Economic Application of Matrix; Input-output Analysis: Structure, Assumptions, Properties, Static and Dynamic Model, Hawkins Simon Condition.

Unit-III

Differential Analysis: Simple, Partial and Total Differentiation with up to Second Order and its Economic Application; Homogenous Function with Properties; Maxima and Minima: One and Two Variables and their Economic Application, Constraint Maxima and Minima with Economic Applications.

Unit-IV

Series Analysis: Arithmetic and Geometric Series with Economic Applications, Set Theory with Economic Applications, Growth Rate, Types- Simple, Compound and Exponential and their Measurement at point of time and Period of Time.

Suggested Readings:

1. Chaing Alpha. C (1984), Fundamental Method of Mathematical Economics, 3rd Edition
2. Yamane Taro (1972). Mathematical Analysis: Business and Economic Application, 4th Edition
3. Arrow, K.J and Intrilligator (1982). Handbook of Mathematical Economics, Volume I, II, III, North Holland Amsterdam.
4. Henderson, J.M and R.E Ouant (1980). Micro economic Theory: A Mathematical Approach, McGraw Hill
5. Chung, I.W(1993) Utility and Production: Theory and Application, Basil Blackwell
6. Allen, R.G.D (1983). Mathematical Analysis for Economist, Macmillan & Co Ltd.
7. Dowling, Edward T (2015). Mathematics for Economists" (Schaum's outline Series, Tata Mc- Graw Hill, 3rd Edition.

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Semester-I
18MECOC-104: Statistical Methods-I (Core)

Max. Marks: 100

Time: 3 Hrs.

External Exam: 80

Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Basic Statistics: Measure of Central Tendency- Mean Simple and Weight Aged, Geometric Mean, Harmonic Mean; Median; Mode; Measure of Dispersion- Range, Inter quartile Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation, Lorenz Curve, Kurtosis Moments and Skewness.

Unit-II

Correlation Analysis: Correlation, Types, Utility, Degree and its Techniques as Karl Pearson Coefficient of Correlation in Individual and Bivariate Series; Spearman Rank Correlation, Concurrent Deviation Method, Coefficient of Determination

Unit-III

Regression Analysis: Regression, Types, Utility, Regression Lines, Regression Equations in Individuals and Bivariate Series, Regression Coefficients, Difference between Correlation and Regression, Properties of Regression Coefficient. OLS Estimates of Regression Parameters

Unit-IV

Index Numbers: Problems and methods of construction of various types of indices, Laspeyres, Pasche's and Fisher's Ideal index number. Time Reversal and Circular Tests, Chain Base Indices, Base Shifting, Splicing and Deflating index number, Cost of living Index numbers and Consumer Price Index Numbers

Suggested Readings:

1. Spiegel, M.R (1992). Theory and Problems of Statistics, 3rd Edition, McGraw Hill Books London.
2. Croxton, F.E & D.J Cowden and S.K Klein (1973). Applied General Statistics, Prentice Hall, New Delhi.
3. Yates, Frank. (1965). Sampling Methods for Census and Surveys, Charles, Griffin Co., London.
4. Gupta S.C and V.K Kapoor (2014). Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
5. Cochran, W. G., (1977) Sampling Techniques, John Willey, New York.
6. Hansen, Hurditz and Meadow (1953). Sample Survey Methods and Theory, John Willey.
7. Gupta S. C. (2018). Fundamentals of Statistics, Himalaya Publishing house, New Delhi, 7th Edition.
8. Gupta S.P. and Gupta M. P. (2014). Business Statistics, Sultan Chand and Sons, New Delhi.

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Semester-I
18MECOE-105: History of Economic Thought

Max. Marks: 100
Time: 3 Hrs.

External Exams: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Pre-Industrial Economic Thought Nature and Importance of Economic Thought, Mercantilism: Views on trade, Money and Prices, Physiocracy: Natural Order; Net Product and Circulation of Wealth.

Unit-II

Classical Political Economy- Adam Smith, Ricardo and J.S. Mill: Theories of value and Distribution

Unit-III

Marxian Economics: Historical Materialism, Theory of Value, Theory of Capital Accumulation, Theories of Crisis. Keynesian and Post Keynesian Economics, General Equilibrium Analysis.

Unit-IV

Indian Economic Thought, Kautilaya, Thiruvallur, Naoroji, Gokhale, Gandhian Thoughts, Rao, Mahalanobis, Vakil, Bhagwati, Mehta, VinobaBhave, Ram ManoharLohiya, Din DayalUpadhyay, Swaminathan.

Suggested Readings:

1. Paul .R.R. (2015). History of Economic Thought, Kalyani publication, New Delhi.
2. Dasgupta, A K (1986). Epochs of Economic Theory, Oxford University Press New Delhi.
3. V.Lokanathan(2015). History of Economic Thought, S. Chand Publication.
4. Barber, William (1977). A History of Economic Thought, Penguin Books, 1977.
5. Bell, John F (1967). A History of Economic Thought, Ronald Press, 1967
6. Black, R. D. Collison (1986). Ideas in Economics, Barnes and Noble Books, 1986
7. Blaug, Mark (1992). Economic Theory in Retrospect, Cambridge University Press.
8. Buchholz, Todd (1990). New Ideas from Dead Economists, A Plume Book.
9. Burt, Everett (1972). Social Perspectives in the History of Economic Theory, St. Martin's Press.
10. Canterbury, Ray (1987). The Making of Economics, Wadsworth Publishing, 1987
11. Canterbury, Ray (1995). The Literate Economist: A Brief History of Economics, HarperCollins, 1995

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Semester-I
18MECOE-106(i): Labour Economics (Elective)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: **There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.**

UNIT-I

Labour Market in India: Concept of labour, labour markets, Labour Market Theories: demand for Labour, supply of labour; Demand for Labour in Relation to Size and Pattern of Investment. Dualistic labour markets: formal informal sectors, Features and characteristics of Indian labour market: Rural and urban labour markets

UNIT-II

Industrial Relations: Wage setting and the role of trade unions, Indian Trade Unions: growth and problems; post-reform changes in labour unions. Industrial disputes, Industrial disputes in India, Dispute settlement machinery in India. Emergence and Role of Union Collective Bargaining and Types of Trade Unions in India.

UNIT-III

Wage and Employment: Determination of wages, Wage elasticity of employment, Concepts of minimum, living and fair wage, wage- productivity and inflation relationship, Wage policy in India -Minimum Wages Act and Payment of Wages Act. Issues in rising wage inequality.

UNIT-IV

Social Security and Welfare: Definition and scope, Social security measures in India, Problems of child labour in India; Women labour force participation, determinants and problems. Public Policies of Employment Generation, Worker's Welfare Programmes-Social Security for Workers; Major recommendations of Second National Commission on labour, Labour market reforms and employment. International Labour Organisation.

Suggested Readings:

1. Hajela, P.D. (1998). Labour Restructuring in India: A Critique of the New Economic Policies, Commonwealth Publisher, New Delhi.
2. Lester, R.A. (1964). Economics of Labour, (2nd Edition), Macmillan, New York.
McConnell, C.R. and S.L. Brue (2010). Contemporary Labour Economics, 9th Edition, McGraw Hill, New York.
3. Papola, T.S., P.P. Ghosh and A.N. Sharma (1993). Labour, Employment and Industrial Relations in India, B.R. Publishing Corporation, New Delhi.
4. VenkataRatnam, C.S. (2001). Globalization and Labour-Management Relations: Dynamics of Change, Sage Publications/Response Books, New Delhi
5. Shyam, S. K. R. (2015). Labour Law and Governance Reforms in India; Some Critical Perspectives. New Delhi: Synergy Books India.
6. Mitra, A. (2009). Technology Import and Industrial Employment: Evidence from Developing Countries."Labour 23 (4): 697—718.
7. International Labour Organization (ILO). 1996. Economic Reforms and Labour Policies in India, New Delhi: ILO

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Semester-I

18MECOE-106 (ii): Economics of Population (Elective)

Max. Marks: 100
Time: 3 Hrs.

Written Exam: 80
Internal Assessment: 20

Note: **There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.**

Unit - I

Population and Development: Meaning and Scope of Demography, Components of Population Growth and their Interdependence; Sources of Population Data; Theories of Population -Malthus, Optimum theory of Population; Theories of Demographic Transition; Models of Meadows, Enke, Becker and Easterlin; Population as Limits to Growth and as Ultimate Source.

Unit- II

Structure and Determinants of Population: Determinants of Age and Sex Structure; Mortality — Death Rates, Crude and Age-Specific, Mortality at Birth and Infant Mortality rate; Measurement of Fertility-Total Fertility Rate, Gross and Net Reproduction Rate; Population Projection- Stable, Stationary and Ouasi-Stationary population, Life Table and its Uses.

Unit- III

Migration and Urbanization: Concept and Types — Temporary, Internal and International; Factors affecting Migration, Theories of Internal Migration, International Migration - Its Effects on Population Growth and Pattern; Urbanization- Growth and Distribution of Rural-Urban Population in Developing Countries with Special Reference to India. Inter-State Migration in India Brain Drain.

Unit- IV

Indian Population and Policy: Growth Rates, Trends and Age Structure of Indian Population, Latest Population Policy in India; Family Planning Strategies and their Outcomes, Social Impact of New Reproductive Technologies and their Regulations, International Comparison of Demographic Features with Special Reference to India

Suggested Readings:

1. Agarwal, S. N. (1986). India's Population Problem, Tata McGraw Hill Co. Bombay.
2. Bose, A. (1996). India's Basic Demographic Statistics, B. R. Publishing Corporation, New Delhi.
3. Chenery, H. and T. N. Srinivasan (Eds.) (1989). Hand Book of Development Economics, Elsevier, Amsterdam.
4. Choubey, P. K. (2001). Population Policy in India, Kanishka Publications, New Delhi.
5. Coale, A. J. and E. M. Hoover (2016). Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospects, Princeton University Press, Princeton.
6. Simon, J. L. (2016). Population and Development in Poor Countries, Princeton University Press.
7. Srinivasan, K. (1998). Basic Demographic Techniques and Applications, Sage, New Delhi.
8. Srinivasan, K. and A. Shariff (1998). India: Towards Population and Demographic Goals, Oxford University Press, New Delhi.
9. Novell, C (1988), Methods and Models in Demography, Bellhaven Press, London.
10. Bogue, D.J (1971) Principles of Demography, John Wiley, New York.
11. Dutt, Ruddra and Sundram K. P.M (2018). , Indian Economy, S.C. Chand & Company, New Delhi.

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Semester-I
18MECOE106 (iii): Computer Application in Economics (Elective)

Max. Marks: 100
Time: 3 Hrs.

Theory: 60
Practical: 40

Note: There shall be nine questions in all. The first question is compulsory and contains six short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-1

Introduction to Computer Fundamentals: computer system, Input-Output Devices. History and Evolution of Computers; Generations of computer Components of a Personal Computer System; Classification of Computers

Unit-II

Introduction to software: Meaning and Concept; Hardware, Software and Types of Software; Operating System- Meaning and Functions; Types of memory; Computer Languages - Machine, Assembly and High-Level Languages

Unit- III

Application Software: Windows based operating system; Word Processing — Document Management and Formatting; Presentation software. Spreadsheets; Solution of Simultaneous Equation with Matrices; Mathematical, Statistical & Financial Functions; Graphical Analysis in Economics

Unit- IV

Data and Information: Meaning, Types; Data base Management System, Advantages and Limitations of Database System; Internet, Intranet, LAN, MAN, WAN, WWW, E-Mail, Search Engine, Social media.

Suggested Readings:

1. Gardener, M. (2012): Beginning R: The Statistical Programming Language, Publisher John Wiley & Sons.
2. Gupta, S.C. and V.K. Kapoor (2007). Fundamentals of Applied Statistics, 4th Edition, S.Chand and Sons, New Delhi.
3. Kim, D. and Soloman, M.G. (2010) Fundamentals of Information System and Security, Publisher Jones & Bartlett Learning.
4. Lipschultz, M.M. and S. Lipschultz (1982): Theory and Problems of Data Processing, Schaum's Outline Series, McGraw Hill, NY.
5. Rajaraman, V. (2014), Fundamentals of Computers, 6th Edition, Prentice Hall of India, New Delhi.
6. Sinha, P.K. (2017). Computer Fundamental, 6th Edition, BPB Publications, New Delhi.

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SEMESTER-II

Semester-II
18MECOC-201: Micro Economics-II (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

UNIT-I

Marginal Analysis: Critical evaluation of marginal analysis; Average cost pricing model; Bain's limit pricing theory; Baumol's sales revenue maximization model(all four static models); Marris model of managerial enterprise; Williamson's model of managerial discretion.

UNIT-II

Factors Pricing: Pricing of factors of production (perfect and imperfect market); Elasticity of technical substitution and factor shares, technical progress and factor shares; Factor pricing and income distribution.

UNIT-III

General Equilibrium: The Walrasian approach to general equilibrium; Existence, stability and uniqueness of the partial equilibrium and General Equilibrium; Maximization of social welfare; Market failure; Externalities, Public goods, asymmetric information.

UNIT-IV

Risk and Uncertainty: Inter-temporal choice in consumption; Economics of Uncertainty - Decision rules under uncertainty; Individual behavior towards risk: Risk, gambling, insurance decisions. Welfare Economics: concept of Social Welfare Function, Pareto Optimality, Compensation Principle.

Suggested Readings:

1. Mas-Colell, Andreu, Michael D. Whinston and Jerry R. Green (1995). Microeconomic Theory, New York.
2. Jehle & Renne (2011). Advanced Microeconomic Theory, Pearson Education, India. 3rd Edition
3. Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory, McGraw Hill, New York.
4. Pindyck Robert S Ruben Feld Daniel, Mehta (2009). Microeconomics, Prentice Hall of India,
5. 7th Edition.
6. Mankiw Gregory N (2017). Micro Economics, Clengage Learning; 8th Edition
7. Koutsoyiannis A (2003). Modern Micro-Economics, McMillan Press London; 2nd Edition.
8. Kreps, David M. (2012). A Course in Microeconomic Theory", Princeton University Press, Princeton.
9. Sen, A. (2006). Microeconomics: Theory and Applications, Oxford University Press, New Delhi, 2nd Edition.

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Semester-II
18MECOC-20 : Macro Economics-11 (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Demand for Money: Classical Approach to Demand for Money: Quantity Theory; Fisher's equilibrium; Cambridge Equation, Quantity theory; Keynes Liquidity Approach Transaction; Precautionary and Speculative Demand for Money Aggregate Demand for Money; Friedman, Patinkin, Baumol and Tobin. Determinants of money supply, High-powered money, Money multiplies.

Unit-II

Inflation: Definition of Inflation; Economics effects of Inflation: The effect of Inflation on distribution of Income and Wealth, The effect of Inflation on output, Employment and the Growth Rate.

Unit-III

Theories of Business Cycles: Schumpeter, Models of Samuelson, Hicks and Kaldor. Control of Business Cycle- relative Efficacy of Monetary and Fiscal Policy

Unit-IV

Exchange Rate: The Determination of National Income in Open Economy; IS-LM Analysis in Open Economy. The International Transmission of Disturbance: Transmission under Fixed Exchange Rate; Transmission under Floating Exchange Rate (Mundell-Fleming Model).

Suggested Reading:

1. Brooman, F. S. (1975). Macro Economics, George Allen and Unwin Ltd., London. 5th Edition.
2. Dornbusch, R. (1980). Open Economy, Macro Economics, Basic Books, New York.
3. Dorn Busch, R. and F. Stanley (2013). Macroeconomics, McGraw Hill, New York, 12th Edition.
4. Shapiro E (2017). Macroeconomic Analysis, Galgotia Publications, New Delhi, 12th Edition
5. Rana and Verma (2014). Macroeconomic Analysis, Vishal publications, 11th Edition.
6. Ackley, G (1978). Macroeconomics: Theory and Policy, Macmillan, New York.
7. Benson, W.A. (2005). Macroeconomic Theory and Policy, Harper and Row, New York, 3rd Edition.
8. Mankiw, N. Gregory (2012). Macroeconomics, Macmillan worth Publishers, 8th Edition.
9. Dernburg, T.F. and D. M. McDougall, (2000). Macroeconomics, McGraw Hill International Book Company.
10. Peterson, W.C. (1996). Income Employment and Economic Growth, Norton, New York,
11. Sheffrin, Steven M. (2012). Rational Expectations, Cambridge University Press, 2nd Edition.

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Semester-II

18MECOC-203: Mathematics for Economists-II (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Integration Analysis; Integration: Meaning and economic interpretation; Indefinite and definite integration. Simple techniques including integration by substitution and integration by parts and its Economic Applications.

Unit-II

Differential Equation: Basic concepts, solution of first order linear differential equation. Non-linear differential equation exact and variable separable type only. Linear differential equation of second order with constant coefficient and term and its Economic Applications.

Unit-III

Difference Equation -basic concepts, solution of first and second order linear difference equation with constant term and coefficient and its Economic Applications.

Unit-IV

Linear Programming: Relevance and basic concepts, Graphic method and dual solution and Economic interpretations.

Suggested Readings:

1. Chiang Alpha. C (1984). Fundamental Method of Mathematical Economics, 3rd Edition
2. Yamane Taro (1972). Mathematical Analysis: Business and Economic Application, 4th Edition
3. Arrow, K.J and Intrilligator (1982). Handbook of Mathematical Economics, Volume I, II, III, North Holland, Amsterdam.
4. Henderson, J.M and R.E Quant (1980). Micro economic Theory: A Mathematical Approach, McGraw Hill
5. Chung, J.W. (1993). Utility and Production: Theory and Application, Basil Blackwell
6. Allen, R.G.D (1983). Mathematical Analysis for Economist, Macmillan & Co Ltd.
7. Dowling, Edward T (2015). Mathematics for Economists (Schaum's outline Series, Tata Mc- Graw Hill, 3rd Edition.

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Max. Marks: 100
Time: 3 Hrs.

External Exams: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit -I

Probability Analysis; Probability: Addition, Multiplication, Bayes Theorem; distribution of a random variable, Binomial, Poisson and Normal distributions, properties and inter relationships. Fitting of distributors.

Unit-II

Sampling Fundamentals: Census versus sample enumeration. Methods and types of sampling, sampling error, small and large sample, concept of an estimator and its sampling distribution; properties of a good estimator, concepts of point and interval estimation.

Unit-III

Statistical Inference: Elements of statistical Inference: Parameter and estimators; concepts of sampling distribution of a Statistic, standard error, hypothesis testing, tests of significance, Type I and Type II errors, level of Significance, Power of a test, z, t, chi-square and F tests. ANOVA- One way and Two Way

Unit-IV

Time Series Analysis: Time Series- Meaning, Utility, Components and their decomposition, Methods of Measuring Trend- Free hand Curve Method, Semi Average Method, Moving Average Method, and Least Square Method, Measurement of Seasonal Variation- Method of Simple Averages, Method of Moving Averages, Ratio to Moving Average, Ratio to Trend Method, Link Relative.

Suggested Readings:

1. Spiegel, M.R (1992). "Theory and Problems of Statistics", 3rd Edition, McGraw Hill Books London.
2. Croxton, F.E & D.J Cowden and S.K Klein (1973). "Applied General Statistics", Prentice Hall, New Delhi.
3. Yates, Frank. (1965). "Sampling Methods for Census and Surveys, Charles, Griffin Co., London.
4. Gupta S.C and V.K Kapoor (2014), "Fundamentals of Applied Statistics", S. Chand and Sons, New Delhi.
5. S. Cochran, W. G., (1977) "Sampling Techniques, John Willey, New York.
6. Hansen, Hurditz and Meadow (1953). "Sample Survey Methods and Theory", John Willey
7. Gupta S. C. (2018). "Fundamentals of Statistics", Himalaya Publishing house, New Delhi, 7th Edition.
8. Gupta S.P. and Gupta M. P. (2014). "Business Statistics", Sultan Chand and Sons, New Delhi.

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SEMESTER-II
18MECOC-205: Public Economics (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Public Finance: Economic rationale of government, fiscal functions; market failures: imperfections, decreasing costs, externalities and public goods; concepts of private goods, pure public goods, mixed goods and merit goods; theory of public goods; free Rider's problem, the optimal provision of public goods, contributions of Samuelson and Musgrave. Lindhal equilibrium; public choice and fiscal decision making, Fiscal Federalism and Centre- State Relations

Unit-II

Budgeting: various concepts, reforms in expenditure budgeting, zero based budgeting and performance budgeting. Budgets of the Union Government in India, budget making process in India; public expenditure in India: trends and issues.

Unit-III

Public Expenditure: structure and growth of public expenditure; Wagner's hypothesis, Peacock Wiseman hypothesis; economic effects of public expenditure; criteria for public investment, social cost-benefits analysis: valuation of benefits and costs, discount rate.

Unit-IV

Theory of Taxation: Various approaches to taxation, neutrality, equity, ability to pay, benefit principle, revenue maximization, income maximization; analysis of incidence of taxes, elasticity, buoyancy and taxable, capacity, efficient tax design: optional taxation, effects of taxation on work effort, savings, investment and growth; classification of taxes: direct and indirect taxes, progressive, proportionate and regressive taxes, Advalorem and specific taxes; tax systems in India; structure, composition and various economic issues.

Suggested Readings:

1. Raja J. Chelliah, (1996). Towards Sustainable Growth, Essays in Fiscal and Financial Sector Reforms in India, Oxford University Press, Delhi.
2. Bhargava P.K. (1991), India's Fiscal Crisis, Ashish Publishing House, New Delhi. Govt. of India,
3. Ministry of Finance (1988), Sarkaria Commission Report on Centre-State Finance Relation
4. Musgrave, R & Musgrave, P B (2017), "Public Finance in Theory and Practice", McGraw Hill International, 5th edition.
5. Atkinson, A B and Stiglitz, J E (2015) Lectures on Public Finance.
6. Peacock, and Straw, G K (1976). The Economic Theory of Fiscal Policy.
7. Raghendra Jha (2009). Modern Public Economics, Routledge, 1th edition.
8. Govt. of India, Ministry of Finance: Finance Commission Reports (9th to 14").
9. Govt. of India, Ministry of Finance (1984) Sarkaria Commission Report on Centre State Financial Relations.
10. Jones. Philip and Cullis, Jones (2009). Public Finance and Public Choice- Analytical Perspectives, Oxford University press.
11. Stiglitz, Joseph (1989). Economics of the Public Sector, W.W.Norton and Company, new York/London. 4" Edition.

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Semester-II
18MECOCB-206: Indian Economy (CBCS)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Characteristics of Indian Economy, Determinant of Growth, Planning in India, Monetary and Fiscal Policy in India, Environment and Growth.

Unit-II

Population, fertility, Mortality, Morbidity, Labour force, Rural and Urban Migration, Informal sector Poverty.

Unit-III

Constraint to agricultural Development, Land Reforms, Industry as the Engine of Growth, Determinant of Industrialization, Excess Growth of Service Sector, Taxation and Reforms.

Unit-IV

Foreign Trade, Determinant of Export and Import, Balance of Payment, Trade and Development, Export Import Policy.

Suggested Readings:

1. Dutt Rudder and K.P.M Sundaram (2018). Indian Economy, 72th Edition, S, Chand & Co. Ltd. New Delhi.
2. Mishra S.K & V.K Puri. (2018). Indian Economy and —Its Development Experience, 35th Edition, Himalaya Publishing House.
3. Kapila Uma. (2018). Indian Economy: Policies and Performances, 18th Edition, Academic
4. Bardhan, P.K. (1999). The Political Economy of Development in India, 9th Edition, Oxford University Press, New Delhi.
5. Byres, T. J. (Ed.) (1998). The Indian Economy: Major Debate since Independence, Oxford University Press, New Delhi.
6. Dhar, P.K. (2014) Indian Economy- Its growing dimensions, Kalyani Publishers, New Delhi.
7. Economic surveys, Government of India Various Issues.
8. Reserve Bank of India: Report on Currency and Finance (Annual), Mumbai.
9. Economic and Political Weekly: Various Issues.

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SEMESTER-III

Semester- III
18MECOC-301: International Economics

(Core)
Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit 1

Trade Theories: Classical Notion of Comparative Advantage (Static versus Dynamic, Natural versus Acquired, Theoretical versus Empirical, etc.); Sources of Comparative Advantage (Technology, Resource Endowments, Demand Patterns, Economies of Scale, Government Policies Etc). Classical Model (Smith, Ricardo, and Haberler): Assumptions, Implications and Limitations; Extension of Ricardian Model: The Specific Factor Model.
Standard Model: Analysis of Gains from Free Trade.

UNIT-II

Trade Theories: Neo-Classical Neo-Classical Model: Assumptions and Their Implications, Factor Substitution, One-to-One Relationship between Factor-Prices, Commodity-Prices and Factor-Intensities; Heckscher-Ohlin, Stolper-Samuelson, Rybczynski and Factor Price Equalization Theorems; Empirical Evidence - the Leontief Paradox.

UNIT-III

Modern Trade Theories and Trade Policy Intra-Industry Trade - Trade Under The Assumptions of Imperfect Competition and Economies of Scale, Linder's Hypothesis; Dynamic Explanations (Change of Technologies) - Product-Cycle and Technology- Gap Models; Strategic Trade Policy (Management) - The Diamond Model (Michael Porter).

UNIT-IV

Barriers to Trade: Free Trade Versus Protection - Need for Protection, Tariff and Non-Tariff instruments of Trade Policy, Comparison of Tariff and Quota, Learner's Symmetry, Aggregate Measures of Protection, Nominal and Effective Rate of Protection. Effects of Tariff for Small and Large Countries (Partial Equilibrium Analysis), Effects of Tariff on Distribution of Gains from Trade (General Equilibrium Analysis), the Optimum Tariff, Metzler's Paradox, Domestic Distortions, Trade Distorting Tariffs.

Note:

Suggested Readings:

1. Salvatore, D L (2016). Theory and Problems of International Economics, Prentice Hall, Upper Saddle River, New York.
2. Salvatore D L. (2016). International Economics, (12 edition) Wiley Publications.
3. Soderston B O. (1999). International Economics, Macmillan Press Ltd. London.
4. Paul, R Krugman & Maurice (2011). (9th Ed) International Economics, Theory and Policy Obstfeld-Wesley Series in Economics.
5. Krugman, P.R. Obstfeld, and Melitz (2012). International Economics, Pearson Addition Wesley-Boston
6. Ellsworth P T and J Clark Leith (1971). The International Economy, Collier Macmillan Ltd. London
7. Kindlberger, C P, 1991, International Economics, R D Irwin, Homewood, 8th Edition.
8. Sawyer, W.C. and Sprinkle R.L. (2003). International Economics, Prentice-Hall of India, New Delhi.
9. Krugman P.R. and Obstfeld D. (1994), International Economics: Theory and Policy. Third Edition. Harper Collins. New York.
10. Human Development Report 2005, UNDP & Oxford, Chapter-4 (For Trade & Development)
11. Bhagwati, J. (2002). Free Trade Today, Oxford University Press

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Semester-III
18MECOC-302: Growth and Development-I (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit I

Concepts and Issues in Economic Growth: Economic development-meaning, development and under development. Perpetuation of underdevelopment - vicious circle of poverty, circular causation structural view of underdevelopment. Goals of economic development- Capability Approach to development, emerging challenges in development. Measurement of Development — conventional, Human Development index and quality of life indices concept of sustainable development.

Unit-II

Classical Theory of Growth and Development: Theories and development: Classical, Marx, Schumpeter and structural analysis of development, Lewis model of development. Renis — Fei Model, dependency theory of development. Rostow's — Theory of stages of economic growth.

Unit-III

Strategies of Economic Growth: balanced growth, critical minimum efforts, big push, unbalanced growth, low income equilibrium trap.

Unit-IV

Economic Growth Models: John Robinson and Kaldor, Harrod — Domar model, instability of equilibrium, Neo-classical growth Solow's model, steady state growth.

Suggested Readings:

1. Thirlwall, A.P. (2011). Growth and Development, Seven Edition, Palgrave Macmillan, New York.
2. Tadoro, Michael & Stephen C Smith (2017). Economics Development, Seventh Edition, Oxford University Press, New Delhi.
3. Ghatak, S. (2003). Introduction to Development Economics, Indian Reprint 2007, Routledge, London
4. Taneja M.L. and Myer R.M (2017). Economics of Development and Planning Vishal Publications.
5. Adelman, I. (1961), Theories of Economic Growth and Development, Stanford University Press, Stanford.
6. Barro, R. and X. Salai- Martin, Economic Growth, McGraw Hill, New York
7. Brown, M. (1966). On the Theory and Measurement of Technical Change, Cambridge University Press, Cambridge, Mass.
8. Chakravarti, S. (1982). Alternative Approaches to the Theory of Economic Growth, Oxford University Press, New Delhi.
9. Chenery, H. and T.N. Srinivasan (Eds.) (1989). Handbook of Development Economics, Vols. 1 & 2, Elsevier, Amsterdam.
10. Higgins, B. (1959). Economic Development, W.W. Norton, New York.
11. Kindleberger, C.P. (1977). Economic Development, (3rd Edition), McGraw Hill, New York.
12. Meier, G.M. and J.E. Rauch (2005). Leading Issues in Economic Development, (8th Edition), Oxford University Press, New Delhi.

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Semester-III
L8MECO-303: Environmental Economics (Core)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Market Failure and Environmental: Goods- Pareto Optimality and Perfect Competition; External Effects in Production and Consumption; Market Failure in Case of Environmental Goods; Incomplete Markets, Externalities, Non-Exclusion; Non-Rivalry; Non Convexity and Asymmetric Information.

Unit-II

Economic Incentives for Environmental Protection- Price Rationing, Pollution Charges, Ambient Charges, Subsidies; Liability Rules, Non-Compliance Fees, Deposit Refund System, Performance Bonds; Quantity Rationing-Market Pollution Permits.

Unit-III

Environment Valuation- Meaning, Measures of Economic Value of Environment WTP and WTAC; Contingent Valuation Method; Travel Cost Method; Hedonic Market Method; Averting Behaviour Approach- Household Health Production Function Method.

Unit-IV

Natural Resources- Types, Classification and Scarcity; Water resource planning in India; Pani Panchayat model; Water and air pollution - existing pollution control mechanisms; forest policy in India. Environmental Legislation in India,

Suggested Readings:

1. Shankar U. (2001). Environmental Economics, Oxford University press, New Delhi.
2. Hanley, N, J.F Shogern and B. White (1997). Environmental Economics in theory and practice, Macmillan Publications.
3. Hussen A.M (1999). Principals of Environmental Economics, Routledge London.
4. Cropper, Maureen (1999). Valuing Environmental Benefits, Edward Elgar.
5. S.James, A.J., M. N. Murty and Smita Misra (1999). Economics of Water Pollution—The Indian Experience, Oxford University Press, New Delhi.
6. Chary, S.N. and Vyasulu, Vinod (2000). Environmental Management - an Indian Perspective, Macmillan, New Delhi.
7. Jeroen. C.J.M. van den Berg (1999). Handbook of Environmental and Resource Economics, Edward Elgar Publishing Ltd., U.K.
8. Pearce, D.W. and R. Turner (1991). Economics of Natural Resource Use and Environment, John Hopkins University Press, Baltimore
9. Bhattacharya R.N. (2001). Environmental Economics- an Indian Perspective (OUP).

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Semester-III
18MECOC-304: Indian Economy-I (Core)

Max. Marks: 100
Time: 3 Hours

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Nature and Characteristics of Indian Economy; Broad Demographic Features of Indian National Income-Performance of Different Sectors; Planning: Objectives and Strategies, Failures and Achievements of Plan,

Unit-II

Problem of Poverty, Inequalities and Unemployment, Environmental Degradation in India; fertility, Mortality, Morbidity, Rural and Urban Migration

Unit-III

Land Reforms in India; Technological Changes in Indian Agriculture; Trends in Agriculture Production and Productivity, Green Revolution; Issues in Food Security, WTO and Indian Agriculture.

Unit-IV

Growth of industries in India, Micro and Small Scale Industries; New Industrial Policy; Privatization, Liberalization and Globalization. Public Sector Enterprises and their Performance, Service Sector: Growth & Pattern

Suggested Reading:

1. Dutt Rudder and K.P.M Sundaram (2018). Indian Economy, 72th Edition, S Chand & Co. Ltd. New Delhi.
2. Mishra S.K & V.K Puri. (2018). Indian Economy and —Its Development Experience, 35th Edition, Himalaya Publishing House.
3. Kapila Uma. (2018). Indian Economy: Policies and Performances, 18th Edition, Academic Foundation.
4. Bardhan, P.K. (1999). The Political Economy of Development in India, 9th Edition, Oxford University Press, New Delhi.
5. Jalan, B. (2000). India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.
6. Byres, T. J. (Ed.) (1998). The Indian Economy: Major Debate since Independence, Oxford University Press, New Delhi.
7. Dhar, P.K. (2014) Indian Economy- Its growing dimensions, Kalyani Publishers, New Delhi.
8. Economic surveys, Government of India.
9. Reserve Bank of India: Report on Currency and Finance (Annual), Mumbai.
10. Economic and Political Weekly: Various Issues.

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Semester-III

18MECOE-305 (i): Industrial Economics-1 (Elective)

Max. Marks: 100

Time: 3 Hrs.

External Exam: 80

Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Concept and Organization of a firm – ownership, control and objectives of the firm; Passive and active behaviour of the firm

Unit-II

Market Structure :Meaning and determinants. Sellers' and Buyers' concentration; Product differentiation; entry conditions; economies of scale; market structure and innovation; market structure and profitability.

Unit III

Market Conduc :Weber and Sargent Florence theories of location; Product pricing in practice; Investment decisions and risk adjustment; Merger and diversification; Advertising expenditure and decisions; Finance : Capital structure; pay-out and retention ratios.

Unit IV

Market Performance: Growth of the firm and constraints; Concepts and measurement of industrial productivity, efficiency and capacity utilization. Methods of project evaluation; Ranking of Projects – NPV and IRR; Social cost-benefit Analysis

Suggested Readings:

1. Hay, D.D.A & D.J. Morris : Industrial Economic Theory and Evidence, Oxford University Press, 1979.
2. Devine, P.J. & R.M. Jones (et. al.) : An Introduction to Industrial Economics, George Allen & Unwin Ltd., London, 1979.
3. Patel, S.J. : Technological Transformation in the Third World, Aldershot Avebury, 1993.
4. Kamien, M.T. & N.L.Schwartz : Market Structure and Innovation, Cambridge University Press, Cambridge, 1982.
5. Bains, J.S Industrial Organization, Cheltenham, U.K.:An Elgar Critical Writings Reader, 1996.
6. Barthwal, R.R. : Industrial Economics, New Delhi: Wiley Eastern Ltd, 1985.
7. Kirkpatrick, C.M. N. Lee & E.I. Nixon : Industrial Structure and Policy in Less Developed Countries, ELBS/George Allen & Unwin, 1984.
8. Herndeen, J.B. : The Economics of the Corporate Economy, Dunellin Publishing Co. New York, 1975.
9. Ramamurti, R. & R.Vernon(ed.) : Privatization and Control of Stateowned Enterprises, Washington. The World Bank, Washington, 1991

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Semester-III
18MECOC-305 (ii) Econometrics-I

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit I

Nature, meaning and econometrics, Simple and general linear regression model: assumptions, estimation (OLS methods); Gauss—Markov theorem; concepts and analysis of variance approach and its application in regression analysis.

Unit II

Concepts of R^2 and adjusted R^2 , Estimation of non—linear equations: Semi—log, double—log and Cobb Douglas.

Unit III

Problems in regression analysis: Nature, test, consequences and remedial steps of problems of heteroscedasticity, multicollinearity and auto—correlation;

Unit IV

Problem of specification bias, Simultaneous equations models: The simultaneous equation bias and inconsistency of OLS estimators; the identification problem; Rules of identification— order and rank conditions;

Suggested Readings:

1. Amemiya, T. (1985). Advanced Econometrics, Harvard University Press, Cambridge, Mass.
2. Dhrymes, Phoebus (2017). Introductory Econometrics, Springer, Nov. 2017.
3. Frances, P. H. (1998), Business and Economic Forecasting, Cambridge University Press, Cambridge.
4. Gream, William (2000). Econometrics Analysis, 8th Edition, 2018 Prentice Hall.
5. Gujarati, N Damodar, Dawn, C. Porter, Sangeeta, Gujasekar, (2011). Basic Econometrics, 5th Edition, McGraw Hill.
6. Intrilligator, M.J. and HsiaoBadkin (1996), Econometric Models, Techniques and Applications, Prentice Hall
7. Johnson J. and Dinardo, J. (1991). Econometric Methods, 4th Edition, McGraw Hall Book Co. London
8. Kmenta J. (1998). Elements of Econometrics, University of Michigan Press, New York
9. Koutsoyiannis, A. (1997), Theory of Econometrics (2nd Edition), The Macmillan Press Ltd., London.
10. Krishna K.L. (1997), Econometrics Application in India, Oxford University Press, New Delhi.
11. Maddala, G.S and Lahari, Kajal (2009) Introduction to Econometrics, 4th Edition 2009, Wiley.
12. Madnani, G.M.K. (1999), Introduction to Econometrics.
13. Patterson Kerry.P (2000). An Introduction to Applied Econometrics, Vol.1, Oxford U.K, Blackwell Publishing.
14. Pindyck, R.S. and D.L. Rubinfeld (1976), Econometric Models and Economic Forecasts, McGraw Hill, Tokyo.
15. Theil H. (1981). Introduction to Econometrics, Prentice Hall of India, New Delhi
16. Studenmund A. H. (2017) Using Econometrics a Practical Guide, Pearson, New Delhi.

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Semester-III

18MECOE-305(iii): Computer Applications in Research

Max. Marks: 100

Time: 3 Hrs.

Theory: 60

Practical: 40

Note: There shall be nine questions in all. The first question is compulsory and contains six short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Data Analysis using MS Excel: Meaning, entering formulas, Mode Median. Correlation, Simple Regression, Construction of Index Numbers, Growth Rates, Forecasting. Entering Array Formula, making graphs and diagrams in MS-Excel

Unit-II

Advance applications in MS Excel: Logical functions, Add-in option, correlation and multiple Regression, applications of t Test, Chi square test and F Test

Unit-III

Introduction to SPSS software, data entry in SPSS, properties of variables, data editor, variable view and output view, inserting variables, editing and computing variables, Descriptive Statistics

Unit-IV

Correlation and Regression analysis in SPSS, Multiple regressions, one sample t-test, paired sample t-test, one way ANOVA, Cross Tabs. Exporting and importing data.

Suggested Readings:

1. Bhattacharjee Dibyojyoti (2010), Practical Statistics: Using Microsoft Excel, Asian Books, Asian Books Private Limited, New Delhi
2. George, Darren Mallery Paul (2011) SPSS for Windows step by step: A simple guide and reference Pearson Education, New Delhi
3. ITL Education Solution Limited (2012), Introduction to information Technology, Pearson, New Delhi (ISBN 978-81-317-6029-1)
4. Amir D Aczel Books (2012), (Complete Business Statistics 7th Edition), Mcgraw Hill

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Semester-III
18MECOE-305(iv): Financial Institutions and Markets-1

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Nature and Role of Financial System and Structure of Interest Rates - Money and finance-Money and near-money-Financial intermediation and financial intermediaries - The structure of the financial development.

Unit-II

Equilibrium in Financial Markets - Financial System and Economic Development Criteria to evaluate assets: Risk and financial assets, types of risk, return on assets, Risk - Return trade of Valuation of securities.

Unit-III

Theories of interest rate determination - Level of interest rates - Long period and Short period rates Term Structure of Interest rates - Theories of interest rates structure - Expectation theory -Segmentation theory; Administered interest rates - Appropriate interest rate policy.

Unit-IV

Banks, Monetary Policy and Non-Bank Financial Interest diaries: Functions of Central Bank -The aims and objectives of the monetary policy in developed and developing countries.

Suggested Readings:

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
3. Edminster, R.O. (1986), Financial Institutions, Market and Management, McGraw Hill, New York.
4. Goldsmith, R.W. (1969), Financial Structure and Development, Yale, London.
5. Hanson, J.A. and S. Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty-century
6. Johnson, H.J. (1993), Financial Institutions and Markets, McGraw Hill, New Delhi

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Semester-III
18MECOE-305 (v): Agricultural Economics-1

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Agricultural Economics: definition, scope and nature; Regional disparities in Indian agriculture: Role of agriculture in Economic Development; Contribution of industry to the development of agriculture; Interdependence of agriculture and industry. Risk and uncertainties in agriculture

Unit-II

Approaches to Agriculture Development: Schultz, Mellor, Boserup, Lewis and Ranis-Fie.

Unit-III

Agricultural Credit: Importance, sources (formal and informal), rural saving and capital formation, problems regarding rural credit. Role of NABARD and Regional Rural bank in reorganizing of rural credit. Agriculture price policy: origin, objectives, need instruments, shortcomings and suggestions to improve Agricultural Price Policy in india.

Unit-IV

Land Reforms meaning, objectives and changes caused by land reforms in India, Green Revolution; Economics Benefits of Green Revolution, Regional disparities created by Green Revolution, Green Revolution and Employment

Suggested Readings:

1. South-worth, H.M. and B.F. Johnston (ed.) Agricultural Development and Economic Growth (Cornell University Press, London, 1974).
2. Heady, E.O. Economics of Agricultural Production and Resources Use (Prentice Hall India Ltd. New Delhi - 1964).
3. Schult, T.Z. Transforming Traditional Agriculture (Yale University Press, 1964).
4. Metacalf D. The Economics of Agriculture.
5. Basu, K. Agrarian Structure and Economic Under Development (Harwood Academic, London 1989).
6. Sadhu, AN. and A Singh, Agricultural Problems in India (Himalaya Publishing House, Bombay).
7. Mellor, J. W. The Economics of Agricultural Development (Vora and Co. Bombay, 1966).
8. Donner, Peter: Land Reforms and Economic Development, New Delhi.
9. Acharya, S.S. & Agarwal N.L., Agricultural Prices - analysis and policy, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
10. R.N. Soni (2005) : Leading Issues in Agricultural Economics, Vishal Publishing House

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Semester-III
18MECOE- 306: Gender Economics (CBCS)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Importance and Concept of Gender Studies- Defining Gender Debate on Women and Development (1970s and 1980s), Theories of Exploitation and Oppression: Status of Women in India, Women in Patriarchal and Matriarchal Societies Structures, Economic Basics and Functioning of Patriarchy in Developed Countries and LDC, Particularly India.

Unit-II

Gender and Development- Patriarchy and Development- Engendering Development Theories- Approaches to Women's Development, Indicators of Development — Gender Development Index and Gender Empowerment Measure, Demography of Female Population, Age Structure, Mortality Rate and Sex- Ratio. Labour market biases and gender discrimination; Gender and development indices.

Unit-III

Gender Discrimination in India- Gender Discrimination; Labour Force Participation-Occupational Segregation and Wage Differentials w.r.t. Gender Education, Skills and Trends across Regions, Factor Affecting Decision Making by Women, Property Rights; Access to and Control over Economic Resources.

Unit-IV

Nature and Impact of Technological Development- Industrialization and Modernization in Women's Work, Women and Globalization, Gender Budgeting and Women, Female Activities, Ecological and Environmental Concern; the two Way Relationship. Social security of women: entitlements, ensuring economic Independence and risk coverage, access to credit and insurance markets.

Suggested Readings:

1. Aggarwal B. (1994). A Field of One's Own, Gender and Land Rights in South Asia Cambridge NIPFP, New Delhi.
2. Agnihotri, S.B. (2000). Sex ratio in Indian Population: A Fresh Exploration, Sage Publications,
3. Amsden, A.H. (Ed.) (1980). The Economics of Women and Work, Penguin, Harmondsworth.
4. Blaw D Fancine. M.A. Ferber and AE Winkler (2014). The Economics of Men, Women and Work, Routledge.
5. Chakborthi, L. (2009). Invisibility of Women's Work in Budgeting Policies, Labour File, Journal and Practical Approaches, Edward Elgar Publishing.
6. Dantwala, M.L., H. Sethi and P. Visaria (1998), Social Change Through Voluntary Action, Sage
7. Desai, N. and M.K.Raj (Eds) (1987). Women and Society In India, Research Centre for Women Studies, SNTD University, Bombay.
8. Drucilla and E. Kuiper (Eds) (2004). Toward A Feminist Philosophy of Economic, Limited, London.

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Max. Marks: 100

Time: 3 Hrs.

External Exam: 80

Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Balance of Payment- Meaning and Component, Equilibrium and Disequilibrium in Balance of Payment; Foreign Exchange Market (Spot Rate and Forward Exchange Rate, Speculative Pressures) and Exchange Rate: Meaning, Types and Theories of Foreign Exchange Rates: Mint Par Parity Theory; The Purchasing Power Parity Theory; The Balance of Payment Theory.

Unit-II

BOP Adjustment: BOP Adjustment under Gold Standard, Fixed and Flexible Exchange Rates, Elasticity, Monetary and Absorption approach to Balance of Payment Equilibrium, Internal and External Balance simultaneously under Alternative Exchange rate regimes, Expenditure Reducing, Expenditure Switching Policies and Direct Control for Adjustment.

Unit-III

Foreign Trade Multiplier- Meaning and Working of Foreign Trade Multiplier; Foreign Repercussion or Back Wash Effect, Forms of Economic Integration, Static and Dynamic Effects of a Custom Union and Free Trade Area; SAARC, ASEAN, EU, Asian Economic Integration: Rational and Economic Progress. Effects of Trade on Poverty, Inequality, Environment, Gender, Labour Standards, Technological Transfers etc.

Unit-IV

International Monetary and Trade System: IMF Operations and International Liquidity; Rise and fall off gold standard and Bretton-Wood system; World Bank, Trade Policy and Less Developed Countries, Import Substitution versus Export Promotion, Empirical Studies of Trade policy. Functions and Achievements of World Trade Organization. India and WTO.

Suggested Readings:

1. Sawyer, W.C. and Sprinkle R.L. (2003), International Economics, Prentice-Hall of India, New Delhi.
2. Salvatore, D L (2016). Theory and Problems of International Economics, Prentice Hall Upper Saddle River, New York.
3. Salvatore D L. (2016). International Economics, (12 edition) Wiley Publications.
4. Soderston B.O. (1999). International Economics, Macmillan Press Ltd. London.
5. Paul, R Krugman & Maurice (2011). (9th Ed) International Economics, Theory and Policy Obstfeld—Wesley Series in Economics.
6. Krugman, P.R. Obstfeld, and Melitz (2012). International Economics, Pearson Addition Wesley- Boston
7. Ellsworth P T and J Clark Leith (1971). The International Economy, Collier Macmillan Ltd. London
8. Kindlberger, C P, 1991, International Economics, R D Irwin, Homewood, 8th Edition.

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Max. Marks: 100

Time: 3 Hrs.

External Exam: 80

Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Approaches to Development-Characteristics of Underdevelopment and Structural Change, Approaches to Tackle Underdevelopment: Balanced and Unbalanced Growth, Critical Minimum Efforts Theory, Low Level Equilibrium Trap, Dualistic model of Economic Growth: Lewis, Fei-Ranis, Prebisch and Seers model.

Unit-II

Sectoral Aspects of Development- Role of Agriculture in Economics Development; Barriers to Agricultural Development, Transformation of Traditional Agriculture, Interdependence of Agriculture and Industry, Development and Environment: The Basic Issues, Traditional Economic Models of the Environment, Policy Options for Developing and Developed Countries, International Agencies and Environment.

Unit-III

Development Policymaking and the Role of the State- The Market Mechanism and Market Failures; Role of State, Corruption, Nature and Rationale for Development Planning, The Planning Process- Some Basic Models, Plan Failures, Development and Political Economy, Fiscal Policy for Development.

Unit-IV

Trade Theory and Development Experience- International Trade as an Engine of Growth; Gains from Trade, Free Trade Theory in Context of Developing Countries Experience, The Prebisch Doctrine, Trade Policy Debate; Export Promotion, Import Substitution and Economic Integration, Trade liberalization and Economic Growth, World Bank and Development.

Suggested Readings:

1. Behrman, S. and T.N. Srivasan (1995), Handbook of Development Economics, Vol.-3, Elsevier, Amsterdam.
2. Chenery, H.B. et al. (Eds.) (1974), Redistribution with Growth, Oxford University Press,
3. Kindleberger, C.P. (1977), Economic Development, (3rd Edition), McGraw Hill, New York.
4. Thirlwall, A.P. (2011). Growth and Development, Seven Edition, Palgrave Macmillan, New York.
5. Tadoro, Michael & Stephen C Smith (2017) .Economics Development, Seventh Edition, Oxford University Press, New Delhi.
6. Meier, G.M & Rauch (2000). Leading Issues in Economic Development, Oxford University Press, and New York.
7. Ghatak, S. (2003). Introduction to Development Economics, Indian Reprint 2007 Routledge, London and New York.
8. Rist, G. (2002).The History of Development Academic Foundation, New Delhi
9. Ray, Debraj (2004).Development Economics", Seventh Edition, Oxford University Press, New Delhi.

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Semester-IV
18MECOE-403: Monetary Economics

Max. Marks: 100
Time: 3 Hrs.

External Exam:80
Internal Assessment: 20

Note: **There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.**

UNIT- I

Money and the Economy: Money Supply and Money Demand-Classical, Keynesian, Monetarist and Post-Keynesian views- Emergence of Monetarism-Monetarist- Analytical Framework-Transmission Mechanism- Liquidity Approach to Monetary Theory-Gurley-Shaw Thesis Implications for monetary policy.

UNIT-II

Money, Interest and Income: Heterogeneity of Interest Rate Determination- Neo-Classical, Keynesian and IS-LM Curve Approach — Rate of interest and investment, Income and output- Administered Interest Rates and Market Determined Interest Rates- Interest rates and Demand for Money - Implications for Monetary Management.

UNIT-III

Money and Prices: Interrelationship between money and Prices- Classical, Keynesian, Monetarist- and New Classical Approach: Demand Pull Theory of Inflation — Social Costs of Inflation- Inflationary Expectations — The Phillips Curve and Other factors; Monetary factors and Economic Fluctuations Monetary Theories of Business Cycles

UNIT-IV

Monetary Policy: Introduction — Goals — Targets — Indicators and Instruments — Limitations of Monetary Policy — The Time Lags in the Monetary Policy — Efficiency of Monetary Policy — Some Aspects of Credit Policy — Monetary Policy with informal Financial Markets — Monetary — Fiscal Co-ordination; IS- LM Curve Approach ; Significance, Opportunities and Challenges- The IMF — A World Central Bank.

Suggested Reading:

1. Shubik Martin, (1999). The Theory of Money and Financial Institution, Volume I and II Cambridge, the MIT Press
2. Stiglitz, Joseph E and Bruce E. Greenwald (2003). Towards a New Paradigm in Monetary Economics, Cambridge, the Cambridge University Press
3. Hajala T.N. (1998). Monetary Economics, Kanark Publishers Pvt. Limited, New Delhi
4. Gupta S.B. (2010). Monetary Economics, S.Chand & Company, New Delhi.
5. Diulio, A.E. (1987). Theory and Problems of Money and Banking, International Edition.
6. The Reserve Bank of India (1983). The Reserve Bank of India: Functions and Working, Bombay.
7. Bhole, L.M. (2000). Indian Financial System, Chugh Publications, Allahabad.
8. Hanson, J.A. and S. Kathuria (2002). India: A Financial Sector for the Twenty First Century, OUP, New Delhi.
9. Machiraju, M.R. (2010). Indian Financial Systems, Vikas Publishing House, New Delhi.

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Semester-IV
18MECOC-404: Indian Economy-II (core)

Max. Marks: 100

Time: 3 Hrs.

External Exam: 80

Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-1

Economic Development and Sustainable Development; Rural Development- Issues, Challenges and Policy Responses; Urban Development- Issues, challenges and responses; Infrastructure Development – Physical and social;

Unit-2

New Economic Reforms; Reforms in Labour Market; Reforms in Capital Market; Taxation Reforms; Fiscal sector Reforms;

Unit-3

Foreign Trade - Structure and Direction; Balance of Payments; Export- Import Policy; Foreign Capital and MNCs in India; Globalization of Indian Economy; Need and Issues of good governance;

Unit-4

NITI (National Institutions for Transforming India) Aayog ; Planning Commission; CACP(Commission For Agricultural Costs and Prices); Finance Commission ; NABARD (National Bank for Agriculture and Rural Development).

Suggested Readings:

1. Dutt Rudder and K.P.M Sundaram (2018). Indian Economy, 72th Edition, S Chand & Co. Ltd. New Delhi.
2. Mishra S.K & V.K Puri. (2018). Indian Economy and —Its Development Experience, 35th Edition, Himalaya Publishing House.
3. Kapila Uma. (2018). Indian Economy: Policies and Performances, 18th Edition, Academic Foundation.
4. Bardhan, P.K. (1999). The Political Economy of Development in India, 9th Edition, Oxford University Press, New Delhi.
5. Jalan, B. (2000). India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.
6. Byres, T. J. (Ed.) (1998). The Indian Economy: Major Debate since Independence, Oxford University Press, New Delhi.
7. Dhar, P.K. (2014) Indian Economy- Its growing dimensions, Kalyani Publishers, New Delhi.
8. Economic surveys, Government of India Various Issues.
9. Reserve Bank of India: Report on Currency and Finance (Annual), Mumbai.
10. Economic and Political Weekly: Various Issues.

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Semester-IV
18MECOE-405 (i): Industrial Economics II (Elective)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Industrial Policy in India – evolution and paradigm shift; Recent trends in Indian industrial growth; National manufacturing Policy 2011; MNCs, transfer of technology and issues related with TRIMS.

Unit-II

Regional industrial growth in India; Industrial economic concentration and remedial measures; MRTP and Competition Act, 2002. Development of Cottage and Small Scale industries; Recent Policy Measures.

Unit-III

Industrial Finance; Sources of short term and long term finance; Industrial Financial Institutions: Role and functioning in India; Corporate securities; Ownership and creditorship securities.

Unit-IV

Structure of Industrial labour; Globalization and labour ; Gender Dimensions of industrial labour; Industrial legislation – Industrial Disputes Act ,1947 and Factories Act, 1948 . Industrial relations – Worker's participation in management and Collective Bargaining; Exit policy and safety nets; Second National Commission on Labour Report

Suggested Readings:

1. Ahluwalia, I.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
2. Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd. New Delhi.
3. Cherunilam, F. (1994), Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
4. Desai, B. (1999), Industrial Economy in India (3rd Edition), Himalaya Publishing House, Mumbai
5. Divine, P.J. and R.M. Jones et. al. (1976), An Introduction to Industrial Economics, George Allen and Unwin Ltd., London.
Government of India, Economic Survey (Annual).
6. Hay, D. and D.J. Moris (1979), Industrial Economics: Theory and Evidence, Oxford University Press, New Delhi.
7. Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahbad.
8. Reserve Bank of India, Report on Currency and Finance (Annual).

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Semester- IV
18MECOC-405(ii): Econometrics - II (Elective)

Max. Marks: 100

Time: 3 Hrs.

External Exam: 80

Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit I

Dummy Variable Technique- Testing Structural Stability of Regression Models, Comparing two regressions, interaction effects, seasonal analysis, piecewise linear Regression; Regression with dummy dependent variables; The LPM, Logit and Probit Models.

Unit II

Methods of Estimating Simultaneous Equation System; Indirect Least Squares (ILS), Instrumental Variables (IV), 2SLS and 3SLS Methods.

Unit III

Auto Regressive and Distributed lag Models- Koyak Model, Partial Adjust Model, Adaptive Expectations; Almon Approach to distributed-lag model; Causality tests; Granger and Sim's Test.

Unit IV

Time Series ; Stationarity, Unit Roots, Co-Integration, Dicky Fuller Test, Random Walk Model, Forecasting with ARIMA and VAR Models-Box Jenkins Methodology, Vector Auto Regression (VAR).

Suggested Readings:

1. Gujarati, D.N. (1995), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi.
2. Koutsoyiannis, A. (1997), Theory of Econometrics (2nd Edition), The Macmillan Press Ltd., London. - Johnston, J. (1991), Econometric Methods, McGraw Hill Book Company, London.
3. Maddala, G.S. (1993), Econometrics Methods and Applications, (2 Vol.), Alder shot, U.K.
4. Krishna K.L. (1997), Econometrics Application in India, Oxford University Press, New Delhi.
5. Kmenta, J. (1997), Elements of Econometrics, University of Michigan Press, New York.
6. Intrilligator, M.D. (1978), Econometrics Techniques and Applications, Prentice Hall, New Jersey.
7. Pindyck, R.S. and D.L. Rubinfeld (1976), Econometric Models and Economic Forecasts, McGraw Hill, Tokyo.
8. Frances, P. H. (1998), Time Series Models for Business and Economic Forecasting, Cambridge University Press, Cambridge.

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Semester-IV
18MECOE-405 (iii): Welfare Economics (Elective)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-1

Scope and Purpose of Welfare Economics; Benthamite Approach to Aggregate Welfare; Assumption of Uniform Income – Utility Function of Individuals; Questions of Income Distribution;

Unit-2

Marshallian Welfare Economics; Consumer's Surplus- Measurement, Difficulties involved and Criticism. Hicks's Surpluses- Concept of Consumer's Surplus, Principle of Compensating Variation; Consumer's Surplus

Unit-3

Pigovian welfare economics; Optimum Resource Allocation and Welfare Maximization, Pareto optimality – Optimum exchange conditions; Compensation criteria – Contributions of Barone, Kaldor and Hicks, The Scitovsky double criterion;

Unit-4

Samuelson's utility possibility curve; Choice Functions and Revealed Preference; Bergson's social welfare function, Arrow's impossibility theorem; Second-best optima. Value judgements and welfare economics

Suggested Readings:

1. Boadway, R.W. and Neil, B. (1984), Welfare Economics, Basil Blackwell, Oxford.
2. Little, I.M.D. (1958), A critique of Welfare Economics, Oxford University Press.
3. Scitovsky, T. (1958), Welfare and Competition, GOERGE ALLEN AND UNWIN LTD.
4. Sen, A. (1982), Choice, Welfare and Measurement, Basil Blackwell.
5. Johansson (1991), An Introduction to Modern Welfare Economics, Cambridge University Press
6. Baumol, W.J. (ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd., U.K.
7. Pigou, A.C. (1962), The Economics of Welfare (4th Edition), Macmillan.
8. Hicks, J.R. (1956), A Revision of Demand Theory, Clarendon Press, Oxford.
9. Little, I.M.D. (1949), The Foundations of Welfare Economics, Oxford Economic Papers, Vol. 1

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Semester-IV
18MECOE-405 (IV): Financial Institutions and Markets II (Elective)

Max. Marks: 100
Time: 3 Hrs.

External Exam: 80
Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Proliferation of banking and non-bank financial intermediaries - Effectiveness of monetary Policy, - Credit creation and its control; Profitability and efficiency of banks. Commercial banks and Co-operative banks.

Unit-II

Development banks- Role and functions; Investment and merchant banking; Financial sector reforms in India - Definition and types of non-bank financial institutions: Their growth and impact on India's economic development, Measures taken to control their operations.

Unit-III

Role of money market and capital market: Call money market, Treasury bill market, Commercial bill market including commercial paper and certificate of deposits, Discount market -Government securities market - Market for derivation: future and options, and other derivatives: types, uses and pricing of derivation - Primary and secondary market for securities.

Unit-IV

SEBI: its impact on the working of capital market in India; IRDA and its role in financial markets - Theory of optimum currency areas - Euro-dollar and Euro-Currency markets - Their envelopment role at international level.

Suggested Readings:

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata McGraw Hill Company Ltd., New Delhi.
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad.
3. Edminster, R.O. (1986), Financial Institutions, Market and Management, McGraw Hill, New York.
4. Goldsmith, R.W. (1969), Financial Structure and Development, Yale, London.
5. Hanson, J.A. and S. Kathuria (Eds.) (1999), India: A Financial Sector for the Twenty first Century, Oxford University Press, New Delhi.
6. Karker, P.T. and S.A. Zenios (2000) (Ed.), Performance of Financial Institutions, Cambridge University Press, Cambridge.

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Semester-IV

18MECOE-405 (v): Agriculture Economics-II(Elective)

Max. Marks: 100

Time: 3 Hrs.

External Exam: 80

Internal Assessment: 20

Note: There shall be nine questions in all. The first question is compulsory and contains eight short answer type questions of equal marks. The students are required to attempt one question from each unit. All questions carry equal marks.

Unit-I

Sustainable development in Agriculture: Organic Farming-Present status and future, Cooperative Farming, Contract Farming, and Collective Farming

Unit-II

Terms of Trade between Agriculture and Industry: Meaning; Impact of change in terms of trade in favor of and against agriculture. Agricultural Marketing Efficiency Measures to improve the efficiency of agricultural marketing in India, Cooperative movement in India - organization structure and development of different types of cooperatives in India.

Unit-III

Economics of Agriculture Production: The Production Function; Factor-Product Relationship; Factor-Factor Relationship; Product- Product Relationship, Equilibrium of the capitalist form, peasant family farm and share tenant farm.

Unit-IV

The New Economic Policy and Indian Agriculture: World Trade Organization and Indian Agriculture; Model of Production Debate: Private V/s Public investment in Agriculture; Trends in public and private investment in Indian Agriculture.

Suggested Reading:

1. South-worth, H.M. and B.F. Johnston (ed.) Agricultural Development and Economic Growth (Cornell University Press, London, 1974).
2. Heady, E.O. Economics of Agricultural Production and Resources Use (Prentice Hall India Ltd. New Delhi - 1964).
3. R.N. Soni (2005) : Leading Issues in Agricultural Economics, Vishal Publishing House
4. Basu, K. Agrarian Structure and Economic Under Development (Harwood Academic, London 1980).
5. Sadhu, AN. and A Singh, Agricultural Problems in India (Himalaya Publishing House, Bombay).
6. Mellor, J. W. The Economics of Agricultural Development (Vora and Co. Bombay, 1966).
7. Donner, Peter: Land Reforms and Economic Development, New Delhi.
8. Acharya, S.S. & Agarwal N.L., Agricultural Prices - analysis and policy, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

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