

**Learning Outcomes based Curriculum Framework
(LOCF)**

For

**B. A. (Economics and Finance)
(Four Year Degree Programme)**

Course Structure for Semester VII and VIII Semesters (Batch: 2021-22)



**University Centre for Graduate Studies
Chaudhary Devi Lal University
Sirsa-125055, Haryana
2024-25**

Dr. S. S. Singh *Dr. S. S. Singh* *Manoj Swadeh*

Table3: Course code and Title along with credit details

Course Category	Course Code	Course Title	Level	Credits			Marks		
				L	P	Total	Int	Ext	Total
SEMESTER-VII									
1.DSC Choose any one	BA/ECO/SM/7/DSC/401	Advanced Microeconomics	400	4	-	4	30	70	100
	BA/ECO/SM/7/DSC/402	Advanced Macroeconomics	400	4	-	4	30	70	100
	BA/ECO/SM/7/DSC/403	Econometrics – I	400	4	-	4	30	70	100
	BA/ECO/SM/7/DSC/404	International Trade-I	400	4	-	4	30	70	100
	BA/ECO/SM/7/DSC/405	Labour Economics	400	4	-	4	30	70	100
	BA/ECO/SM/7/DSC/406	Industrial Economics	400	4	-	4	30	70	100
2.MIC	BA/ ECO/SM/7/MIC/401	Security Market Operations	400	4	-	4	30	70	100
TOTAL						24			600
SEMESTER-VIII									
1.DSC Choose any one	BA/ECO/SM/8/DSC/407	Development Economics-II	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/408	Economic Development and Policy in India-II	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/409	Econometrics – II	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/410	International Trade-II	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/411	Economics of Gender and Development	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/412	Mathematics for Economics	400	4	-	4	30	70	100
2.MIC	BA/ ECO/SM/8/MIC/402	Personal Finance	400	4	-	4	30	70	100
TOTAL						24			600
SEMESTER-VIII*									
1.DSC Choose any one	BA/ECO/SM/8/DSC/408	Economic Development and Policy in India-II	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/409	Econometrics – II	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/410	International Trade-II	400	4	-	4	30	70	100
Choose any one	BA/ECO/SM/8/DSC/412	Mathematics for Economics	400	4	-	4	30	70	100
	BA/ECO/SM/8/DSC/413	Skills of Dissertation Writing	400	4	-	4	30	70	100
2. MIC	BA/ ECO/SM/8/MIC/402	Personal Finance	400	4	-	4	30	70	100
3. SEC	Research Project/ Dissertation			-	-	12	-	-	300
Total						24			600

***Four year UG Honours with research**

Table 2
Discipline Specific Courses

Semester	Courses Code		Name of Course	Credits	
				T	P
VII	BA/ECO/SM/7/DSC/401		Advanced Microeconomics	4	0
	BA/ECO/SM/7/DSC/402		Advanced Macroeconomics	4	0
	BA/ECO/SM/7/DSC/403		Econometrics – I	4	0
	BA/ECO/SM/7/DSC/404		International Trade-I	4	0
	BA/ECO/SM/7/DSC/405	Choose any one	Labour Economics	4	0
BA/ECO/SM/7/DSC/406	Industrial Economics		4	0	
VIII	BA/ECO/SM/8/DSC/407		Development Economics-II	4	0
	BA/ECO/SM/8/DSC/408		Economic Development and Policy in India-II	4	0
	BA/ECO/SM/8/DSC/409		Econometrics – II	4	0
	BA/ECO/SM/8/DSC/410		International Trade-II	4	0
	BA/ECO/SM/8/DSC/411	Choose any one	Economics of Gender and Development	4	0
BA/ECO/SM/8/DSC/412	Mathematics for Economics		4	0	
VIII*	BA/ECO/SM/8/DSC/408	Choose any one	Economic Development and Policy in India-II	4	0
	BA/ECO/SM/8/DSC/409		Econometrics – II	4	0
	BA/ECO/SM/8/DSC/410		International Trade-II	4	0
	BA/ECO/SM/8/DSC/412	Choose any one	Mathematics for Economics	4	0
	BA/ECO/SM/8/DSC/413		Skills of Dissertation Writing	4	0
			Dissertation	12	

***Four year UG Honours with research**

Table 3

Minor and Vocational Courses

Semester	Courses Code	Name of Course	Credits	
			T	P
VII	BA/ ECO/SM/7/MIC/401	Security Market Operations	4	0
VIII	BA/ ECO/SM/8/MIC/402	Personal Finance	4	0

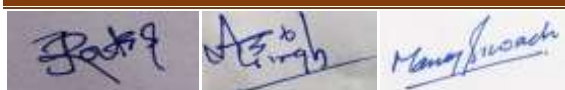
[Handwritten signatures: Jyoti, A.S. Singh, Manoj Prasad]

444444444		Total Credits: 4 Time:3 Hrs. Marks:100 External: 70 Internal:30
Course Title: Advanced Microeconomics Course Code: BA/ECO/SM/7/DSC/401		
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14markseach selecting at least one question from each unit.		
Course Outcomes		
CO1	To Understand the Recent Developments in Theory of Market Demand.	
CO2	Able to understand new advances in the theory of firm and think critically analyze economic problems in the context of firm.	
CO3	Know the different concepts of productivity and theories of factor pricing in different market situations. Adopt different analytical concepts and models in framing development and policy-relevant problems particularly factor pricing and income distribution.	
CO4	Students will understand the different theories of wage rate, interest, profit, rent. Understand the effects of various decisions on welfare of people through general equilibrium analysis.	
Unit-I		
Recent Developments in Theory of Market Demand; The Pragmatic Approach to Demand Analysis, Linear Expenditure System and The Demand for the Product of a Firm		
Unit-II		
Managerial Theory of the Firm; Marris' s Model of Managerial Enterprise, O. Williamson Model of Managerial Discretion, Baumol's Sales Maximization Model, Bain's Limit Pricing Theory		
Unit-III		
Concept of Physical and Revenue Productivity; Marginal Theory of Factor Pricing, Euler's Theorem, Neoclassical Theory of Factor Pricing under Comparative Conditions, with Monopolistic Power in Product Market, Monopsonist Power in Factor Market, Bilateral Monopoly in Factor Market.		
Unit-IV		
Neoclassical Theory of Wage, Rent, Quasi-Rent, Interest and Profit. Issues in General Equilibrium Analysis.		
ReadingList		
Archibald,G.C. (Ed.)(1971) <i>Theoryof theFirm</i> .Penguin, Harmondsworth. Baumol,W.J.(1982) <i>EconomicTheoryandOperationsAnalysis</i> .PrenticeHallofIndia,NewDelhi. Da Costa, G. C. (1980) <i>Production, Prices and Distribution</i> . Tata McGraw Hill, New Delhi. Koutsoyiannis,A.(1979) <i>ModernMicroeconomics(2ndEdition)</i> ,MacmillanPress,London. Salvatore,D.(2009) <i>Microeconomics-TheoryandApplications</i> .OxfordUniversityPress. Varian,H. (2003) <i>IntermediateMicroeconomics</i> , East-WestPress. Kreps,DavidM.(1990), <i>ACourseinMicroeconomicTheory</i> ,PrincetonUniversityPress, Princeton. Koutsoyiannis,A.(1979), <i>ModernMicroeconomics,(2ndEdition)</i> ,MacmillanPress,London. Layard,P.R.G.andA.W.Walters(1978), <i>MicroeconomicTheory</i> ,McGrawHill,NewYork. Sen,A.(1999), <i>Microeconomics:TheoryandApplications</i> ,OxfordUniversityPress,New Delhi.		

Course Title: Advanced Macroeconomics Course Code: BA/ECO/SM/7/DSC/402		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Learn and explain various theories of demand for money	
CO2	To understand the theories of consumption and investment along with their relevance.	
CO3	Identify the phases of the business cycle/inflation and the problems caused by cyclical fluctuations in the market economy and to show an ability to reflect on how economic shocks affect aggregate economic performance in the short and long term.	
CO4	Understand the theories of money supply and interest rates.	
Unit-I		
The Demand for and supply of money: Classical Approach to Demand for Money – Quantity Theory Approach; Fisher's equilibrium; Cambridge Quantity theory; Keynes Liquidity Approach - Transaction, Precautionary and Speculative Demand for Money, Aggregate Demand for Money; Baumol and Tobin, Friedman.		
Unit-II		
Behavioural Foundation: Theories of Consumption - The Absolute Income Hypothesis, The relative Income hypothesis, The Permanent Income theory of Consumption; The Life cycle theory of Consumption.		
Unit-III		
The investment multiplier – static and dynamic, Trade Cycles - Models of Samuelson, Hicks and Kaldor		
Unit-IV		
Money and Financial Markets: Role, Structure and Functions of Money; Capital Markets Inflation: Demand Pull and Cost Push Theories of Inflation; Trade Off and Non Trade Off between Inflation and Unemployment- The Phillips Curve (short Run and Long Run); Inflationary Pressure Curve and the Natural Rate of Unemployment		
Reading List Romer, David (2012) <i>Advanced Macroeconomics</i> . McGraw Hill Education. Bain, K. & Howells, P. (2009) <i>Monetary Economics: Policy and its Theoretical Basis</i> . Macmillan International Higher Education. Frisch, H. (1983) <i>Theories of Inflation</i> . Cambridge University Press. Galbacs, Peter (2015) <i>The Theory of New Classical Macroeconomics: A Positive Critique</i> . Springer. Gali, J. (2015) <i>Monetary Policy, Inflation and Business Cycles</i> , Princeton University Press. Handa, Jagdish (2000) <i>Monetary Economics</i> , Routledge, London. Jha, R. (1991) <i>Contemporary Macroeconomic Theory and Policy</i> . Wiley Eastern Limited. Levacic, Rosalind & Rebmann, Alexander (2015) <i>Macroeconomics</i> , Macmillan, London. Lucas, R.E. (1983) <i>Studies in Business Cycle Theory</i> , MIT Press. Mankiw, Gregory N. (2003) <i>Macroeconomics</i> , Worth Publishers. Mishkin, F.S. (2016). <i>The Economics of Money Banking and Financial Markets</i> . Pearson. Romer, D. & Mankiw, N. Gregory (1995). <i>New Keynesian Economics (Volume-2)</i> . MIT Press. Sheffrin, Steven M. (1996) <i>Rational Expectations</i> . Cambridge University Press		

Course Title: Econometrics – I Course Code: BA/ECO/SM/7/DSC/403		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Able to estimate and interpret linear regression models..	
CO2	Explain the problems that arise when the assumptions of linear regression model are not valid	
CO3	Develop solutions to the problems that results from violating the assumptions	
CO4	Understand the tools of econometrics and applying them in practice	
Unit-I		
Nature and Meaning of econometric; Difference between mathematical economics, statistics; and econometrics; Goals of econometrics; classical linear regression model (two variable) Sources of disturbance terms, assumption and their significance, least square estimators and their properties/ Gauss markov theorem.		
Unit-II		
General linear regression model: Definition, assumptions, least squares estimation, testing significance of regression coefficients, concepts of R^2 and adjusted R^2 .		
Unit-III		
Econometric Problems: Nature, consequences, detection and remedial measures of the problems of multicollinearity, hetroscedasticity and autocorrelation.		
Unit-IV		
Estimation of consumption function, Cobb-Douglas and CES production-functions, Estimation of semi-log and double log function; simple and compound rates of growth.		
Reading List		
Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.		
Johnston J. (1991). Econometrics Methods. McGraw Hall Book Co. London.		
Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York		
Koutsoyiannis, A. (1977). Theory of Econometrics. The Macmillan Press Ltd. London.		
Madnani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford•& IBH Publishing Co. Pvt. Ltd. New Delhi.		
Amemiya, T. (1985). Advanced Econometrics. Harvard University Press, Cambridge, Mass.		
Baltagi, B.H. (1988). Econometrics. Springer, New York.		
Goldberger, A.S. (1998). Introductory Econometrics. Oxford University Press, New York.		
Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi.		
Johnston J. (1991). Econometric Methods. MC Graw Hall Book Co. London.		
Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, NewYork.		
Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications. Prentice Hall Englewood Cliffs, New Jersey.		
Koutsoyiannis, A. (1977). <i>Theory of Econometrics</i> . The Macmillan Press Ltd. London.		
Maddala G.S. (Ed.) (1993). <i>Econometric Methods and Application</i> . Aldershot U.K.		
Theil H. (1981).Introduction to Econometrics. Prentice Hall of India, New Delhi.		

Course Title: International Trade-I Course Code: BA/ECO/SM/7/DSC/404		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand, explain, compare and critically evaluate the classical and neo classical trade theories.	
CO2	Learn about terms of trade and critically evaluate the terms of trade and their relevance in today's scenario.	
CO3	Comprehend various models of balance of payment and analyse recent example of it	
CO4	Understand and analyse the working of International Financial Management and Institutions	
Unit – I		
The pure theory of international trade-theories of absolute advantage, comparative advantage and opportunity costs, modern theory of international trade; Theorem of factor price equalization.		
Unit – II		
Terms of trade; Meaning, Types, Determination, gains from Trade-measurement and distribution, Trade as an Engine of Economic Growth, Intra-Industry trade-causes of emergence.		
Unit – III		
Meaning of balance of payments equilibrium, causes and effects of BOP disequilibrium and corrective measures. A critical review of the Absorption and monetary approaches to the theory of balance payment adjustment.		
Unit – IV		
Foreign Trade multiplier, changes in the composition and direction of Foreign Trade of india since 1991, Functions of IMF, World Bank, and WTO. Impact of WTO on different sectors of Indian Economy.		
Reading List Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. <i>American Economic Review</i> , 49, 21-42. Batra, R. N. (1973). <i>Studies in the Pure Theory of International Trade</i> . St. Martin's Press, August. Bhagwati, J. N. (1987). <i>International trade: Selected readings</i> . MIT Press, Cambridge. Ethier, W. J. (1995). <i>Modern International economics</i> . W.W. Norton & Co. Helpman, E. & Krugman, Paul R. (1989). <i>Trade policy and market structure</i> . The MIT Press. Heffernan, S. & Sinclair, P. (1991). <i>Modern International economics</i> . Wiley-Blackwell. Jhonson, H. (1958). <i>International trade & economic growth</i> . Harvard University Press, Cambridge. Kreinim, M.E. & Officer, L.H. (1981). <i>The Monetary Approach to the Balance of Payment: A Survey</i> (Princeton Studies in International Finance No. 43). Princeton University. Krugman, Paul R. (1994). <i>Rethinking international trade</i> . MIT Press. Lindert, P. H. & Pugel, T. A. (2008). <i>International Economics</i> . McGraw-Hill. McCallum, Bennett T. (1996). <i>International Monetary Economics</i> . Oxford University Press, New York. Stern, R.M. (2017). <i>The Balance of Payments: Theory and Economic Policy</i> . Routledge. Thirlwal, A.P (1999). <i>Balance of Payments Theory</i> . Oxford University Press, New York. Vernon, Raymond (1966). International Investment and International Trade in the Product Cycle. <i>Quarterly Journal of Economics</i> , 80(2), 190-207.		



Course Title: Labour Economics Course Code: BA/ECO/SM/7/DSC/405		Total Credits: 4 Time: 3 Hrs. Marks: 100 External : 70 Internal : 30
Note for the Paper Setter		
<ol style="list-style-type: none"> Nine Questions will be set in all and students will be required to attempt 5 questions. Question no. 1 will be compulsory and will consist of 7 short answer type questions of 2 marks spread over the entire syllabus (2 X 7=14 marks). For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (14 marks each). 		
Course Outcomes		
CO1	To be able to analyze labour market issues through the application of economic data and theories.	
CO2	To be able to synthesize information on different actors and outcomes across the various labour market topics.	
CO3	To be able to understand the process of wage determination and development of generic skills to think critically, interpret and explore to be able to apply theory to practice and synthesize as well as evaluate data and other information.	
CO4	To understand the specific issues of labour market like child labour, gender discrimination, labour reforms and globalization.	
Unit-I		
Nature and characteristics of labour markets in developing countries like India; Demand for labour in relation to size and pattern of investment; Supply of labour in relation to growth of labour force; Mobility and productivity of labour.		
Unit-II		
Rationalization; Methods of recruitment and placement; International Labour Organization-Objectives, Principles and Functions; International Labour Organization and India; Bonus system and profit sharing.		
Unit-III		
Classical and neo-classical bargaining theories of wage determination; Concepts of minimum wage, living wage and fair wage in theory and practice; Wage determination in various sectors –rural, urban, organized and unorganized sectors. Productivity and wage relationship; National wage policy; Wages and Wage Boards in India.		
Unit-IV		
Growth, pattern and structure of labour unions in India, achievements of labour unions; Causes of industrial disputes and their settlement and prevention mechanism; Current trends in collective bargaining; Concept of social security and its evolution; Special problems of labour; Child labour, female labour; Labour market reforms; Globalization and labour markets.		
Reading List		
Binswanger H.P. & Rosenzweig, M.R. (Eds.) (1984), <i>Contractual Arrangements, Employment, and Wages in Rural Labor Markets in Asia</i> . Yale University Press, New Haven.		
Das, N. (1960). <i>Unemployment, Full Employment and India</i> . Asia Publishing House, Bombay.		
Datt, G. (1996). <i>Bargaining Power, Wages and Employment: An Analysis of Agricultural Labour Markets in India</i> . Sage Publications, New Delhi.		
Desphande L.K. and J.C. Sandesara, (Ed.). (1970). <i>Wage Policy and Wages Determination in India</i> . Bombay University Press, Bombay.		
Jhabvala, R. & Subrahmanya, R.K. (Eds.) (2000). <i>The Unorganised Sector: Work Security and Social Protection</i> . Sage Publications, New Delhi.		

- Hicks J.R. (1932). *The Theory of Wages*. Clarendon Press, Oxford.
- Kannapon, S. (1983). *Employment Problems and Urban Labour Markets in Developing Countries*. University of Michigan, Ann Arbor.
- Lester, R.A. (1964). *Economics of Labour*, (2nd Edition), Macmillan, New York.
- Madan, B.K. (1977). *The Real Wages of Industrial Workers in India*. Management Development Institute, New Delhi.
- McConnell, C.R. & Brue, S.L. (1986). *Contemporary Labour Economics*, McGraw-Hill, New York.
- Papola, T. S. & Rodgers, G. (Eds.). (1992). *Labour Institutions and Economic Development in India*, International Institute for Labour Studies, Geneva.
- Rees, A. (1973). *Economics of Work and Pay*, Harper and Row, New York.
- Rosenberg M.R. (1988). *Labour Markets in Low Income Countries*, In Chenery, H.B. and T.N. Srinivasan, (Eds.), *The Handbook of Development Economics*, North-Holland, New York.
- Sen, A.K. (1975). *Employment, Technology, and Development*, Oxford University Press, New Delhi.
- Sharma. A.N. & Kundu, A. (Eds.). (2001). *Informal Sector in India: Emerging Perspectives*. Institute for Human Development, New Delhi.
- Solow, R.M. (1990). *Labour Market as an Institution*, Blackwell, London.

Course Title: Industrial Economics
Course Code: BA/ECO/SM/7/DSC/406

Total Credits: 4
Time: 3 Hrs.
Marks: 100
External: 70
Internal: 30

Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.

Course Outcomes

CO1	Learn the scope and breadth of industrial economics and able to use the tools of economic analysis and the classical theory of markets in the analysis of organizations.
CO2	Comprehend, compare and present the theories of industrialization and location along with their technical applications.
CO3	Understand market structure-conduct-performance and appreciate the concept of sellers' concentration along with its measurement using adequate techniques.
CO4	Understand and then able to present the concepts of industrial productivity and efficiency along with measurement using analytical tools.

Unit – I

The scope of industrial economics and its History. Industrial Efficiency: concept and measurement. The organizational form and alternative motives of the firm. Market Structure: Sellers concentration; Product differentiation; Entry conditions; Economies of scale; Market structure and profitability; Market structure and innovation.

Unit – II

Theories of industrial location – Weber and Sargent Florence; Factors affecting location; Market Conduct: The determinants of profitability. Industrial Finance and Accounting. Analysis of Financial Ratio and Relationship.
Industrial finance; Owned, external and other components of funds; Role, nature, volume and types of institutional finance – IDBI, IFCI, SFCs, SIDC, commercial banks etc.

Unit – III

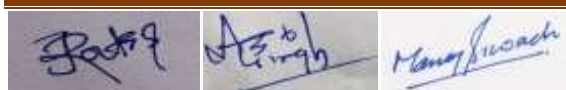
Theories and empirical evidence on Mergers and acquisitions (M & As) and diversification. Market Performance; Growth of the firm; constraints on growth; Productivity, efficiency and capacity utilization: concepts and measurement, Indian situation. . Industrial Labour – Problem, and reform in India. Government Regulation of Industry.

Unit – IV

Industrial productivity: measurement, partial and total trends. Pattern of industrialization: Public and private; large and small industries. Industrial structure and economic growth; Economic Reforms and industrial growth. Efficiency conditions in the theory of production: constrained output maximisation,

Reading List

- Ahluwalia, I.J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
- Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.
- Cherunillam, F. (1994). Industrial Economics; Indian perspective (3rd Edition), Himalaya Publishing House, Mumbai.
- Desai, B. (1999) Industrial Economy in India (3rd Edition) Himalaya Publishing House Mumbai.
- 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).
- Hay, D. and D.J. Morris (1976) Industrial Economics; Theory and Evidence University Press, New Delhi.
- Kuchal S.C. (1980) Industrial Economy of India (5th Edition), Chaitanya Publishing House Allahabad.
- Reserve Bank of India Report on currency and Finance (Annual).



Course Title: Development Economics-II
Course Code: BA/ECO/SM/8/DSC/407

Total Credits: 4
 Time: 3 Hrs.
 Marks: 100
 External: 70
 Internal: 30

Note for the Paper Setter

The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.

Course Outcomes

CO1	To understand theories of development, unemployment and migration.
CO2	To understand and analyse capital formation, demographic and technologies changes and development.
CO3	To analyse role of price policy, shadow prices and models of growth.
CO4	To acquaint the students about the trade and development, NIEO, FDI, MNC'S in emerging scenarios.

Unit-I

Theories of growth and development: Nurkse's Theory on disguised unemployment as saving potential; Rural -Urban migration theory (Harris-Todaro model); Keynes views about development.

Unit-II

Capital formation; meaning, importance, factors determining, stages and measurement of capital formation; Population and Economic Growth: fertility choice and missing markets, population and economic development, Liebenstein's thesis on population and economic growth. Technological change and economic development.

Unit-III

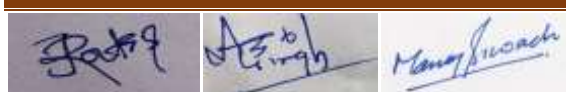
Role of price policy in a developing economy, environment and development; Shadow prices
 Models of economic growth: Models of growth of John Robinson; Convergence: meaning and types.

Unit-IV

Trade and development: foreign capital and economic development, new international economic order (NIEO). Role of foreign Direct investment (FDI) and Multi-national corporations (MNCs) in the emerging scenario.

Reading List

Adelman, I. (1961). *Theories of Economic Growth and Development*, Stanford University Press, Stanford.
 Barro, R. J. & Sala-i-Martin, X. (2004). *Economic Growth*. MIT Press.
 Behrman, S. & Srinivasan, T.N (Eds.). (1995). *Handbook of Development Economics, Vol. 3*. Elsevier, Amsterdam.
 Chenery, H. & Srinivasan, T.N. (Eds.) (1989). *Handbook of Development Economics, Vol. 1 & 2*. Elsevier, Amsterdam.
 Chakravarti, S. (1982). *Alternative Approaches to the Theory of Economic Growth*. Oxford University Press, New Delhi.
 Ghatak, S. (1986). *An Introduction to Development Economics*. Allen and Unwin, London.
 Gillis, M., Perkins, D.H., Romer, M. & Snodgrass, D.R. (1992). *Economics of Development*. W.W. Norton, New York.
 Jones, H.G. (1975). *An Introduction to Modern Theories of Economic Growth*. Nelson, London.
 Lewis, W.A. (1955). *The Theory of Economic Growth*. George Allen and Unwin, London.
 Higgins, B. (1959). *Economic Development*. W.W. Norton, New York.
 Kindleberger, C.P. (1977). *Economic Development*. McGraw Hill, New York.
 Meier, G.M. & Rauch, J.E. (2005). *Leading Issues in Economic Development*. Oxford University Press, New Delhi.
 Menard, C. & Shirley, M.M. (2008). *Handbook of New Institutional Economics*. Springer Science & Business.



Course Title: Economic Development and Policy in India- II Course Code: BA/ECO/SM/8/DSC/408		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note For the paper Setter The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO 1	To understand growth and problems of the Industrial sector in India.	
CO 2	To know growth, pattern and sustainability of Service sector and need for infrastructure in India.	
CO 3	Understanding the features of tax structure and fiscal reforms in India.	
CO 4	To Know features of Foreign trade policy, components and need for foreign capital and analyse the impact of WTO on Indian Economy.	
Unit – I		
Industry and Public sector in India: Phases of Industrial Growth in India, Appraisal of the Industrial Policy resolution of 1956, 1980 and 1991, Make in India, Start up India, Role and Problems of Small and large Scale Industries; Role and Performance of Public sector Undertakings in India and its Evaluation.		
Unit-II		
Service Sector in India: Service Sector Growth-Pattern and Future Prospects, Sustainability of Services Led Growth in India, Infrastructure: Need for Infrastructure and Government strategy on Infrastructure Development in India.		
Unit-III		
Public Finance: Principle features of Indian Tax structure. Division of financial resources between centre and their states, Fiscal Reforms in Indian Economy, Fiscal Responsibility and Budget Management in India.		
Unit-IV		
Foreign Trade Policy of India: Features and Evaluation, MNCs in India, FERA and FEMA , Foreign Capital: Components of Foreign Capital, Need for Foreign Capital, Foreign Direct Investment-Growth , Pattern and Impact on India. Impact of WTO on various aspects of Indian Economy.		
Reading List		
Bardhan. P.K. (9 th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.		
Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.		
Datta, R. and K P. M. Sundhram (latest edition), Indian Economy. S. Chand & Company Ltd. New Delhi.		
Mishra, S.K and V.K. Puri Indian Economy-151 Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.		
Meier, Gerald M. (1987). <i>Pioners in Development</i> . Oxford University Press, New Delhi.		
Ministry of Finance (2020). <i>Economic Survey</i> . Government of India.		

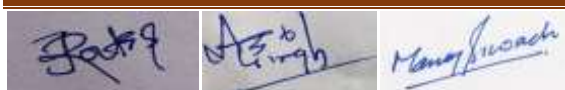
Roots AS to Singh Manoj Prasad

Course Title: Econometrics- II Course Code: BA/ECO/SM/8/DSC/409		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand and explain the nature of dynamic econometric model.	
CO2	Comprehend and apply qualitative response regression models	
CO3	Construct, test, and analyze econometric models, using variables and relationships commonly found in economic theory.	
CO4	Learn and explain various concepts in Time Series econometrics and economic forecasting.	
Unit-I		
Dynamic Econometric Models-Distributed Lag Models and Causality Tests: Autoregressive and distributed lag models - Koyck Model, Adaptive expectation and Partial Adjustment approaches for rationalization of Koyck models, Estimation of Autoregressive models, Granger causality and ergogeneity.		
Unit-II		
Dummy variable Regression model: The Nature of Dummy variable, caution in the use of Dummy variables, ANOVA MODELS with two qualitative variables, Chow Test, The use of dummy variables in seasonal analysis and interaction effects.		
Unit-III		
Simultaneous equation model: The simultaneous equation bias and inconsistency of OLS estimators; The identification problem; Rule of identification – Order and Rank conditions, Methods of estimating simultaneous system: Indirect least squares.		
Unit-IV		
Time series Econometrics: Key concept – stochastic process; stationarity and non stationarity process, purely random process, Random walk models, co-integration, integration variables, Deterministic and stochastic trends and unit root. Techniques of forecasting – ARMA, ARIMA Models, Box-Jenkins methodology.		
Reading List Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi. Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London. Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York Koutsoyiannis, A. (1977). Theory of Econometrics. The Macmillan Press Ltd. London. Madnani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford•& IBH Publishing Co. Pvt. Ltd. New Delhi. Amemiya, T. (1985). Advanced Econometrics. Harvard University Press, Cambridge, Mass. Baltagi, B.H. (1988). Econometrics. Springer, New York. Goldberger, A.S. (1998). Introductory Econometrics. Oxford University Press, New York. Johnston J. (1991). Econometric Methods. MC Graw Hall Book Co. London. Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications. Prentice Hall Englewood Cliffs, New Jersey. Koutsoyiannis, A. (1977). <i>Theory of Econometrics</i> . The Macmillan Press Ltd. London. Maddala G.S. (Ed.) (1993). <i>Econometric Methods and Application</i> . Aldershot U.K. Theil H. (1981).Introduction to Econometrics. Prentice Hall of India, New Delhi.		

Course Title: International Trade-II Course Code: BA/ECO/SM/8/DSC/410		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Learn, compare and critically evaluate the new trade theories and their relevance in today's scenario.	
CO2	Understand the theories of protection and develop the ability to appreciate the economic integration and its impacts.	
CO3	Understand, explain and present various approaches of International Monetary system.	
CO4	Understand and analyze the working of International Financial Management and Institutions	
Unit – I		
Theories of Trade: Hypothesis of secular deterioration of terms of trade, its empirical relevance and policy implications for less developed countries, Kravis and Linder theory or trade. The Rybnzynski theorem –concept and policy implications of immiserizing growth.		
Unit – II		
The theory of interventions (Tariffs, Quotas and non-tariff barriers); Economic effects of tariffs and quotas on national income, output, employment, terms of trade, income distribution, balance of payments on trade partners both in partial and general equilibrium analysis. The political economy of non-tariff barriers and their implications		
Unit – III		
International Monetary System: Rise and fall of gold standard, Bretton-Wood system and Monetary system after collapse of Bretton Woods System. Optimum currency area, Euro currency market: meaning, origin, and growth.		
Unit – IV		
Economic Integration-Theory of Customs Union; Concept forms, problems and benefits of economic integration, Partial and general equilibrium analysis and dynamic effects of Custom union, Integration experiences-European Union World Trade Organization and fair trade-Development Round, Trade Facilitation, Trade War.		
Reading List Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. <i>American Economic Review</i> , 49, 21-42. Batra, R. N. (1973). <i>Studies in the Pure Theory of International Trade</i> . St. Martin's Press, August. Bhagwati, J. N. (1987). <i>International trade: Selected readings</i> . MIT Press, Cambridge. Ethier, W. J. (1995). <i>Modern International economics</i> . W.W. Norton & Co. Helpman, E. & Krugman, Paul R. (1989). <i>Trade policy and market structure</i> . The MIT Press. Heffernan, S. & Sinclair, P. (1991). <i>Modern International economics</i> . Wiley-Blackwell. Jhonson, H. (1958). <i>International trade & economic growth</i> . Harvard University Press, Cambridge. Kreinin, M.E. & Officer, L.H. (1981). <i>The Monetary Approach to the Balance of Payment: A Survey</i> (Princeton Studies in International Finance No. 43). Princeton University. Krugman, Paul R. (1994). <i>Rethinking international trade</i> . MIT Press. Lindert, P. H. & Pugel, T. A. (2008). <i>International Economics</i> . McGraw-Hill. McCallum, Bennett T. (1996). <i>International Monetary Economics</i> . Oxford University Press, New York		

<p align="center">Course Title: Economics of Gender and Development Course Code: BA/ECO/SM/8/DSC/411</p>		<p>Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30</p>
<p>Note for the Paper Setter</p> <p>The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.</p>		
<p>Course Outcomes</p>		
CO1	Understand importance Gender and Women's Studies as an academic field of study and be familiar with its history and theories.	
CO2	Explain demography of female population with special reference to nutrition, health, education and social and community resources.	
CO3	Understand and analyze structure of wages and determinants of wage differentials.	
CO4	Review legislation for women's entitlements, protection of property rights and social security.	
<p align="center">Unit – I</p> <p>Introduction to Women Studies</p> <p>Importance and concepts of women studies – women in patriarchal and matriarchal societies and structures, patrilineal and matrilineal systems and relevance to present day society in India; Economic basis and functioning of patriarchy in developed Countries and LDCs, particularly India.</p>		
<p align="center">Unit – II</p> <p>Demographic Aspects</p> <p>Demography of female population: Age structure, mortality rates, and sex ratio – Causes of declining sex ratios and fertility rates in LDCs and particularly India – Theories and measurement of fertility and its control; Women and their access to nutrition, health, education and social and community resources, and its impact on female mortality and fertility, economic status, and work participation rate.</p>		
<p align="center">Unit – III</p> <p>Wage Structure and Wage Differential</p> <p>Wage differential in female activities; Determinants of wage differentials: Gender, education, skill, productivity, efficiency, opportunity; Structure of wages across regions and economic sectors.</p>		
<p align="center">Unit – IV</p> <p>Issues in Empowering Women</p> <p>Review of legislation for women's entitlements, protection of property rights, social security; Gender and development indices; Mainstreaming gender into development policies; Gender-planning techniques; Gender sensitive governance.</p>		
<p>Reading List</p> <p>Boserup, E. (1970). <i>Women's Role in Economic Development</i>. George Allen and Unwin, London.</p> <p>Desai, N. & Raj, M.K. (Eds.). (1979). <i>Women and Society in India</i>. Research Center for Women Studies, SNDT University, Bombay.</p> <p>Government of India (1974). <i>Towards Equality – Report of the Committee on the Status of Women in India</i>, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.</p> <p>Krishnaraj, M., Sudarshan, R.M. & Shariff, A. (1999). <i>Gender, Population and Development</i>. Oxford University Press, New Delhi.</p> <p>Seth, M. (2000). <i>Women and Development: The Indian Experience</i>. Sage Publications, New Delhi.</p> <p>Srinivasan, K. & Shariff, A. (1998). <i>India: Towards Population and Development Goals</i>. Oxford University Press, New Delhi.</p>		

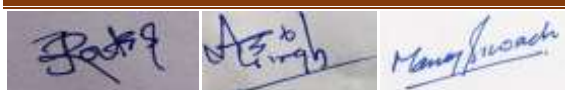
Course Title: Mathematics for Economics Course Code: BA/ECO/SM/8/DSC/412		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand the various rules of matrix algebra and their economic applications along with the ability to solve the model containing system of simultaneous equations and functions.	
CO2	Appreciate the techniques of differential calculus, ability to compute minima and maxima and skill to use these concepts in the field of economics.	
CO3	Familiar with the concepts of game theory and linear programming problems.	
CO4	Understand, explain, solve and design different forms of utility functions and demand functions, concept of integration and its applications.	
Unit-I		
Matrix Algebra and Its Applications Concept of Matrix and Determinant: their types, simple operations on matrices; Matrix inversion and rank of matrix; Solution of simultaneous equations through Cramer's rule and Matrix inverse method and their economic applications. Functions: Concept and types of functions; Types of production cost functions; Limits, Continuity and derivatives.		
Unit-II		
Differential Calculus and Its Applications Rules of differentiation, higher order derivatives Rules of Partial differentiation, higher order partial derivatives and its economic applications. Problems of maxima and minima in single and multivariable functions; constrained maximization and its economic applications.		
Unit-III		
Game Theory; Concept of a game; Two-person Zero-sum game; value of a game; strategies- pure and mixed; Dominance rule; Solution of a game by linear programming. Nash equilibrium. Linear programming: Basic concept, Nature of feasible, basic and optimal solution; Solution of linear programming problem through graphical and simplex method		
Unit-IV		
Topics in Consumer Behavior Types of utility functions; Ordinal utility maximization; Demand function, Revealed preference theory. Concept of integration and its economic application; Producer's and Consumer's equilibrium.		
Reading List Aggarwal, C.S. and R.C. Joshi (2011). Mathematics for students of Economics. New Academic publishing Co. Jalandhar. Allen, R.G.D. (1972). <i>Mathematical Economics</i> . Macmillan, London. Allen R.G.D. (2002). <i>Mathematical Analysis for Economists</i> . Macmillan Press and ELBS, London. Chiang, A.C. (2006). <i>Fundamental Methods of Mathematical Economics</i> . McGraw Hill, New York. Chung, J.W. (1994). <i>Utility and Production: Theory and Applications</i> . Basil Blackwell, London. Henderson, J. M. & Quandt, R.E. (2003). <i>Microeconomic Theory: A Mathematical Approach</i> . McGraw Hill, New Delhi. Koutsoyiannis, A. (1979). <i>Modern Microeconomics</i> . Macmillan Press, London.		



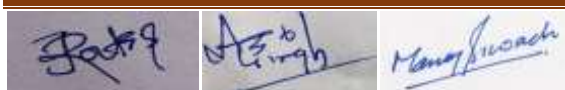
Course Title: Economic Development and Policy in India-II Course Code: BA/ECO/SM/8/DSC/408		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note For the paper Setter The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO 1	To understand growth and problems of the Industrial sector in India.	
CO 2	To know growth, pattern and sustainability of Service sector and need for infrastructure in India.	
CO 3	Understanding the features of tax structure and fiscal reforms in India.	
CO 4	To Know features of Foreign trade policy, components and need for foreign capital and analyse the impact of WTO on Indian Economy.	
Unit – I		
Industry and Public sector in India: Phases of Industrial Growth in India, Appraisal of the Industrial Policy resolution of 1956, 1980 and 1991, Make in India, Start up India, Role and Problems of Small and large Scale Industries; Role and Performance of Public sector Undertakings in India and its Evaluation.		
Unit-II		
Service Sector in India: Service Sector Growth-Pattern and Future Prospects, Sustainability of Services Led Growth in India, Infrastructure: Need for Infrastructure and Government strategy on Infrastructure Development in India.		
Unit-III		
Public Finance: Principle features of Indian Tax structure. Division of financial resources between centre and their states, Fiscal Reforms in Indian Economy, Fiscal Responsibility and Budget Management in India.		
Unit-IV		
Foreign Trade Policy of India: Features and Evaluation, MNCs in India, FERA and FEMA , Foreign Capital: Components of Foreign Capital, Need for Foreign Capital, Foreign Direct Investment-Growth , Pattern and Impact on India. Impact of WTO on various aspects of Indian Economy.		
Reading List		
Bardhan. P.K. (9 th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.		
Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.		
Datta, R. and K P. M. Sundhram (latest edition), Indian Economy. S. Chand & Company Ltd. New Delhi.		
Mishra, S.K and V.K. Puri Indian Economy-151 Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.		
Meier, Gerald M. (1987). <i>Pioneers in Development</i> . Oxford University Press, New Delhi.		
Ministry of Finance (2020). <i>Economic Survey</i> . Government of India.		

Course Title: Econometrics- II Course Code: BA/ECO/SM/8/DSC/409		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. The first question will be compulsory and will consist of five short questions of 2 marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand and explain the nature of dynamic econometric model..	
CO2	Comprehend and apply qualitative response regression models	
CO3	Construct, test, and analyze econometric models, using variables and relationships commonly found in economic theory.	
CO4	Learn and explain various concepts in Time Series econometrics and economic forecasting.	
Unit-I		
Dynamic Econometric Models-Distributed Lag Models and Causality Tests: Autoregressive and distributed lag models - Koyck Model, Adaptive expectation and Partial Adjustment approaches for rationalization of Koyck models, Estimation of Autoregressive models, Granger causality and ergogeneity		
Unit-II		
Dummy variable Regression model: The Nature of Dummy variable, caution in the use of Dummy variables, ANOVA MODELS with two qualitative variables, Chow Test, The use of dummy variables in seasonal analysis and interaction effects.		
Unit-III		
Simultaneous equation model: The simultaneous equation bias and inconsistency of OLS estimators; The identification problem; Rule of identification – Order and Rank conditions, Methods of estimating simultaneous system: Indirect least squares		
Unit-IV		
Time series Econometrics: Key concept – stochastic process; stationarity and non stationarity process, purely random process, Random walk models, co-integration, integration variables, Deterministic and stochastic trends and unit root. Techniques of forecasting – ARMA, ARIMA Models, Box-Jenkins methodology.		
Reading List Gujarati, D.N. (1995). Basic Econometrics. McGraw Hill, New Delhi. Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London. Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York Koutsoyiannis, A. (1977). Theory of Econometrics. The Macmillan Press Ltd. London. Madnani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford•& IBH Publishing Co. Pvt. Ltd. New Delhi. Amemiya, T. (1985). Advanced Econometrics. Harvard University Press, Cambridge, Mass. Baltagi, B.H. (1988). Econometrics. Springer, New York. Goldberger, A.S. (1998). Introductory Econometrics. Oxford University Press, New York. Johnston J. (1991). Econometric Methods. MC Graw Hall Book Co. London.		

Course Title: International Trade-II Course Code: BA/ECO/SM/8/DSC/410		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Learn, compare and critically evaluate the new trade theories and their relevance in today's scenario.	
CO2	Understand the theories of protection and develop the ability to appreciate the economic integration and its impacts.	
CO3	Understand, explain and present various approaches of International Monetary system.	
CO4	Understand and analyze the working of International Financial Management and Institutions	
Unit – I		
Theories of Trade: Hypothesis of secular deterioration of terms of trade, its empirical relevance and policy implications for less developed countries, Kravis and Linder theory or trade. The Rybnzynski theorem –concept and policy implications of immiserizing growth.		
Unit – II		
The theory of interventions (Tariffs, Quotas and non-tariff barriers); Economic effects of tariffs and quotas on national income, output, employment, terms of trade, income distribution, balance of payments on trade partners both in partial and general equilibrium analysis. The political economy of non-tariff barriers and their implications		
Unit – III		
International Monetary System: Rise and fall of gold standard, Bretton-Wood system and Monetary system after collapse of Bretton Woods System. Optimum currency area, Euro currency market: meaning, origin, and growth.		
Unit – IV		
Economic Integration-Theory of Customs Union; Concept forms, problems and benefits of economic integration, Partial and general equilibrium analysis and dynamic effects of Custom union, Integration experiences-European Union World Trade Organization and fair trade-Development Round, Trade Facilitation, Trade War.		
Reading List Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. <i>American Economic Review</i> , 49, 21-42. Batra, R. N. (1973). <i>Studies in the Pure Theory of International Trade</i> . St. Martin's Press, August. Bhagwati, J. N. (1987). <i>International trade: Selected readings</i> . MIT Press, Cambridge. Ethier, W. J. (1995). <i>Modern International economics</i> . W.W. Norton & Co. Helpman, E. & Krugman, Paul R. (1989). <i>Trade policy and market structure</i> . The MIT Press. Heffernan, S. & Sinclair, P. (1991). <i>Modern International economics</i> . Wiley-Blackwell. Jhonson, H. (1958). <i>International trade & economic growth</i> . Harvard University Press, Cambridge. Kreinin, M.E. & Officer, L.H. (1981). <i>The Monetary Approach to the Balance of Payment: A Survey</i> (Princeton Studies in International Finance No. 43). Princeton University. Krugman, Paul R. (1994). <i>Rethinking international trade</i> . MIT Press. Lindert, P. H. & Pugel, T. A. (2008). <i>International Economics</i> . McGraw-Hill. McCallum, Bennett T. (1996). <i>International Monetary Economics</i> . Oxford University Press, New York. Stern, R.M. (2017). <i>The Balance of Payments: Theory and Economic Policy</i> . Routledge. Thirlwal, A.P (1999). <i>Balance of Payments Theory</i> . Oxford University Press, New York. Vernon, Raymond (1966). <i>International Investment and International Trade in the Product Cycle</i> .		

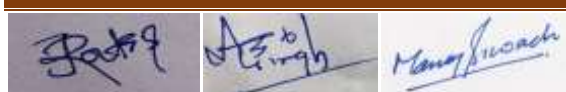


Course Title: Mathematics for Economics Course Code: BA/ECO/SM/8/DSC/412		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of five short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 15 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Understand the various rules of matrix algebra and their economic applications along with the ability to solve the model containing system of simultaneous equations and functions.	
CO2	Appreciate the techniques of differential calculus, ability to compute minima and maxima and skill to use these concepts in the field of economics.	
CO3	Familiar with the concepts of game theory and linear programming problems.	
CO4	Understand, explain, solve and design different forms of utility functions and demand functions, concept of integration and its applications.	
Unit-I		
Matrix Algebra and Its Applications Concept of Matrix and Determinant: their types, simple operations on matrices; Matrix inversion and rank of matrix; Solution of simultaneous equations through Cramer's rule and Matrix inverse method and their economic applications. Functions: Concept and types of functions; Types of production cost functions; Limits, Continuity and derivatives.		
Unit-II		
Differential Calculus and Its Applications Rules of differentiation, higher order derivatives Rules of Partial differentiation, higher order partial derivatives and its economic applications. Problems of maxima and minima in single and multivariable functions; constrained maximization and its economic applications.		
Unit-III		
Game Theory; Concept of a game; Two-person Zero-sum game; value of a game; strategies- pure and mixed; Dominance rule; Solution of a game by linear programming. Nash equilibrium. Linear programming: Basic concept, Nature of feasible, basic and optimal solution; Solution of linear programming problem through graphical and simplex method		
Unit-IV		
Topics in Consumer Behavior Types of utility functions; Ordinal utility maximization; Demand function, Revealed preference theory. Concept of integration and its economic application; Producer's and Consumer's equilibrium.		
Reading List Aggarwal, C.S. and R.C. Joshi (2011). Mathematics for students of Economics. New Academic publishing Co. Jalandhar. Allen, R.G.D. (1972). <i>Mathematical Economics</i> . Macmillan, London. Allen R.G.D. (2002). <i>Mathematical Analysis for Economists</i> . Macmillan Press and ELBS, London. Chiang, A.C.(2006). <i>Fundamental Methods of Mathematical Economics</i> . McGraw Hill, New York. Chung, J.W. (1994). <i>Utility and Production: Theory and Applications</i> . Basil Blackwell, London. Henderson, J. M. & Quandt, R.E. (2003). <i>Microeconomic Theory: A Mathematical Approach</i> . McGraw Hill, New Delhi. Koutsoyiannis, A. (1979). <i>Modern Microeconomics</i> . Macmillan Press, London.		



Course Title: Skills of Dissertation Writing Course Code: BA/ECO/SM/8/DSC/413		Total Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To understand the mechanics of writing and the concept of plagiarism	
CO2	To know the format of the research paper and Documentation	
CO3	To understand structure & content of the research proposal	
CO4	To explain the Variety of Thesis proposals	
Unit-I The mechanics of writing: spelling, punctuation, italics names of person, numbers, titles of works in research paper, quotations, capitalization & personal names in languages other than English. Plagiarism: Definition, consequences, forms.		
Unit-II Research paper as a form of exploration & communication, The format of the research paper Documentation: Preparing the list of works cited; citing sources in the text, Abbreviations		
Unit-III Structure & content of the research proposal, citing references, presentation of a dissertation, Managing information & keeping records. Dos & do nots for reviewing, Indicators of good research.		
Unit-IV Variety of Thesis proposals: Solving immediate problems; Establishing foundations for planning; applying, testing & generating theories; contributing to research methodology; replicating others research; Presentation of the results.		
Reading List Estelle M. Philips D.S. Pugh (1987) "A Handbook for students and their Supervisors". UBS Publishers' Distributors Ltd., New Delhi. Gibaldi Joseph (2004) "MLA Handbook for Writers of Research Papers", Sixth Edition, East West Press Pvt. Ltd., New Delhi. Glatthorn Allan A. (1998) "Writing the Winning Dissertation – A Step-by-Step Guide, Corwin Press, Inc. Thousand Oaks, California. Hart Chris (1998) "Doing a Literature Review", SAGE Publications, New Delhi. Lerary, Zina O' (2005) "The Essential Guide to Doing Research", Vistaar Publications, New Delhi. Punch Keith F (2000) "Developing Effective Research Proposals, SAGE Publications, New Delhi. Rudestam Kjell Erik, Rae R. Newton (2001) "Surviving Your Dissertation" 2 nd Edition. SAGE Publications, New Delhi. Thomas R. Murray (2003) "Blending Quantitative & Quantitative Research Methods in Theses and Dissertations" Corwin Press, Inc. Thousand Oaks, California. Walliman Nicholas (2003) "Your research project", SAGE Publications, New Delhi.		

Course Title: Security Market Operations Course Code: BA/ECO/SM/7/MIC/401		Theory Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	Familiarizes students with Primary and secondary Security Markets and its instruments.	
CO2	Conceptual understanding of Listing of securities in stock exchanges.	
CO3	Acquires sound knowledge of SEBI and NSDL.	
CO4	Enable students with future and option trading.	
Unit-I		
Security Markets: Primary and secondary market; Primary market – its role and functions, Methods of selling securities in primary market; New financial instruments; SEBI guidelines for public issues.		
Unit-II		
Stock exchanges: Listing of securities in stock exchanges; Trading mechanism – Screen based trading; Internet based trading; National stock exchange and Bombay stock exchange – Role, Organization and management.		
Unit-III		
Listing procedure (Accounting and participants regulation) 1996; SEBI (Custodian of Securities) Regulation, 1996; National Securities Depository Ltd. (NSDL)		
Unit-IV		
Derivative Trading: Future and Options – Concept, Meaning and Importance, Methods of Trading, Valuation of options; Raising funds from international markets: FITs Euro issues, ADR's, GDR's and FDI; SEBI guidelines.		
Readings List:		
1. Dalton, John M.: How the Stock Market Works, Prentice Hall, New Delhi.		
2. Donald E. Fisher, Ronald J. Jordan: Security Analysis and Portfolio Management; Prentice Hall, New Delhi.		
3. Gupta, L.C.: Stock Exchange Trading in India; Society for Capital Market Research and Development, Delhi.		
4. Machi Raju, H.R.: Merchant Banking; Wiley Eastern Ltd., New Delhi.		
5. Raghunathan V.: Stock Exchanges and Investments, Tata McGraw Hill, New Delhi.		



Course Title: Personal Finance Course Code: BA/ECO/SM/8/MIC/402		Theory Credits: 4 Time: 3 Hrs. Marks: 100 External: 70 Internal: 30
Note for the Paper Setter The question paper will consist of nine questions in all. First question will be compulsory and will consist of seven short questions of two marks each covering the whole syllabus. In addition, eight more questions will be set unit-wise comprising of two questions from each of the four units. The candidates are required to attempt four more questions of 14 marks each selecting at least one question from each unit.		
Course Outcomes		
CO1	To understand the financial goal of an individual and management of spending & financial discipline	
CO2	To understand and analysis the different aspects of investment, risk and returns	
CO3	Enable to understand the tax structure and its related concepts	
CO4	To provide knowledge regarding new pension scheme, retirement benefits and Retirement Planning Goals	
Unit-I		
Financial Goals, Time value of money, steps in financial planning, personal finance/loans, education loan, car loan & home loan schemes. Introduction to savings, benefits of savings, management of spending & financial discipline, Net banking and UPI, digital wallets, security, and precautions against Ponzi schemes and online frauds such as publishing, credit card cloning, and skimming.		
Unit-II		
Process and objectives of investment, concept, and measurement of return and risk for various assets class, Measurement of portfolio risk and return, Diversification & Portfolio formation Gold Bond, Real Estate, Investment in Greenfield and brown field projects, Investment in Fixed income instruments- Financial derivatives & commodity market in India, Mutual fund schemes including SIP; International Investment Avenues.		
UNIT-III		
Tax structure in India for personal taxation, scope of personal tax planning, Exemptions and deductions available to individuals under different heads of Income and Gross total income. Special provisions u/s 115 BAC Vis a Vis General provisions of the Income-tax Act 1961, Tax planning versus Tax avoidance versus tax evasion.		
Unit-IV		
Retirement Planning Goals, Process of Retirement Planning, Pension plans available in India, Reverse mortgage, New Pension Schemes, and Exemptions available under the Income-tax Act, 1961 for retirement benefits		
Readings list		
1. Kapoor Personal Finance Connect Plus (includes ebook) 11th Edition. Kapoor, J. R., Dlabay, L. R., & Hughes, R. J. (2015). Personal Finance. New York, NY: McGrawHill/Irwin. ISBN: 9780077641009		
2. Managing Your Personal Finances, South-Western Cengage Learning, 6th edition 2010. Joan S. Ryan author. 3. Personal Financial Literacy, Pearson Education, Inc. Prentice-Hall Publishing, 2nd edition, 2014 ©. Jeff Madura, Mike Casey, Sherry J. Roberts, authors.		

