SOPHIA GIRLS' COLLEGE, AJMER

(AUTONOMOUS)

Scheme of Examination
And
SYLLABUS

2015-16 (Batch)

FOR
BACHELOR OF ARTS HONOURS (ECONOMICS)

Semester I to VI

BACHELOR OF ARTS HONOURS

Eligibility for admission in First Year of BA (Hons.) is 10+2 examination of any board with at least 45% marks. As regards admission on reserved category seats government rules will be applicable.

SCHEME OF EXAMINATION

The number of the paper and the maximum marks for each paper together, with the minimum marks required to pass are shown against each subject separately. It will be necessary for a candidate to pass in the theory as well as the practical part of a subject/paper, wherever prescribed, separately.

Classification of successful candidates shall be as follows:

First Division   60%   of the aggregate marks prescribed in Semesters
                                   I to VI taken together

Second Division   50%
All the rest shall be declared to have passed the examination.

- For passing a candidate shall have to secure at least 40% marks in each course (Theory and Practical separately).
- No division shall be awarded in Semesters I to V.
- Whenever a candidate appears for a due paper examination, she will do so according to the syllabus in force.
- A candidate not appearing in any examination/absent in any paper of term end examination shall be considered as having DUE in those papers.

A. Subsidiary subjects:

A candidate shall be required to offer one Honours subject and one subsidiary subject out of the following subjects;

1. Political Science
2. Geography
3. History
4. Mathematics
5. Psychology
6. Home Science
7. Physical Education
8. VCA

(Contents of subject shall be same as prescribed for the optional subject of B.A Examination)

B. Scheme (Subsidiary Subjects)

The scheme of Examination the course of study and text books for subsidiary subjects of Honours Sem I to VI Examination shall be the same as prescribed for the optical subject of the B.A. (Subject) Sem I VI Examination.

Course Structure in Semester I

	Semester – I					
Paper Code	Theory Papers	CIA	ESE	Max. Marks	Min. Marks	Duration
ECOH - 101	Microeconomics I	30	70	100	40	2 ½ Hr.
ECOH - 102	Industrial Economics	30	70	100	40	2 ½ Hr.
ECOH - 103	Indian Economy I	30	70	100	40	2 ½ Hr.
ECOH - 104	Quantitative Techniques And Statistical Method I	30	70	100	40	2 ½ Hr.
	Total			400	160	

ECOH – 101 Microeconomics-I

Max. Marks: 100   **Min. Marks: 40**
                                                             Duration : 2 ½ Hrs

OBJECTIVE:

In this paper, student is expected to understand the behavior of an economic agent – a consumer and producer.

Build competency & academic excellence for the competitive exams & to develop employability skills.

UNIT I

Nature and scope of Economics; Methodology in Economics; Choice as an economic problem; basic postulates; Role of Price Mechanism; Demand and Supply- Basic framework and applications; Market equilibrium.

UNIT 2

Utility: Cardinal and Ordinal approaches; Indifference curve – Concepts and properties, Budget line, Consumers equilibrium: Price, Income and Substitution effect (Hicks and Slutsky); Giffen goods; Engle curve; Elasticity of demand: Price, Income and Cross; Consumer surplus

UNIT 3

Production function: Law of variable proportions, Returns to scale, Concepts of Isoquants, Isocost line, Least cost combinations, Concept of Ridge lines, Economies of scale; Expansion path.

Reference Books:

- Samuelson P.A & W.O Nordhaus (1998), Economics 16th Edition, Tata McGraw Hill, New Delhi.
- Mankiw. Gregory. N (2007), Economics: Principles & Applications 4th Edition, India edition by South Western a part of Cengage Learning, Cengage Learning India Pvt. Ltd.
- Koutsoyiannis, A (2013), Modern Microeconomics, 2nd Edition, Macmillan Press, London.
- Verian H. (2000), Microeconomics Analysis, W.W Norton, New York.
- Sen, A (1999), Microeconomics: Theory & Applications, Oxford University Press, New Delhi.
- Pindyck, R.S, D.L Rubinfield & P.L Mehta (2008), Microeconomics, 6th Edition, Dorling Kinderslay (India) Pvt. Ltd., Licenses of Pearson Education in South Asia.
- Varian H.R (2000), Intermediate Microeconomics: A Modern Approach, 5th Edition, East-West Press, New Delhi.
- Case K.E & Ray C. Fair (2007), Principles of Economics, Pearson Education Inc., 8th Edition.
- Stiglitz J.E & Carl E. Walsh (2007), Economics 4th Edition, W.W Norton & Company Inc. New York, International Student Edition.

ECOH – 102   INDUSTRIAL ECONOMICS

Max. Marks: 100   **Min. Marks: 40**
                                                               Duration : 2 ½ Hrs

OBJECTIVE:
* In the contemporary world with globalization and liberalization more and more attention is given to industry. This course intends to provide knowledge to the students on the basic issues such as productivity, efficiency, capacity utilization and debates involved in the industrial development in India.

UNIT I

Introduction: Industry and economic development; Industry and sectoral linkages. The Elements of Market structure, Market Conduct and the Conceptual Framework for the Study of Industrial Economics; Concept and organization of a firm — ownership, control and objectives of the firm.

UNIT II

Industrial pricing and market structureTheories of industrial location — Weber and Sargent Florence. Factors affecting location. Industrial Productivity; Concept and measurement of productivity; Industrial sickness

UNIT III

Mode of financing - Equity and Debt, Institutional Finance, Bank Finance. Industrial Labour- Industrial legislation; Industrial relations; Exit policy and social security; Wages and problems of bonus.

Reference Books:
* Barthwal, R.R. (1992), Industrial Economics : An Introductory Text Book, Wiley Eastern Ltd., New Delhi.Economics 65
* Cherunilam, 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.
* Kuchhal, S.C. (1980), Industrial Economy of India (5th Edition), Chaitanya Publishing House, Allahabad.
* Singh, A. and A.N. Sadhu (1988), Industrial Economics, Himalaya Publishing House, Bombay.
* Ahluwalia, I.J. (1995), Industrial Growth in India, Oxford University Press, New Delhi.
* Brahmananda, P.R. and V.R. Panchamukhi (Eds.) (1987), The Development Process of the
* Indian Economy, Himalaya Publishing House, Bombay.
* Clarkson, K.W. and R. Miller (1985), Industrial Organization : Theory, Evidence and Public Policy, McGraw Hill, Kogakusha, Tokyo.
* Devine, P.J. et. al (1978), An Introduction to Industrial Economics, (3rd Edition), George Allen and Unwin, London.
* Government of India, Economic Survey (Annual), New Delhi.
* Government of India, Ninth Five Year Plan (1997-2000), Vols. I & II, Planning Commission, New Delhi.
* Mamoria and Mamoria (2000), Dynamics of Industrial Relations in India, (15th Edition), Himalaya Publishing House, Mumbai.
* Naidu K.M. (1999), Industrialization and Regional Development in India, Reliance Publishing House, New Delhi.

ECOH – 103 Indian Economy-I

Max. Marks: 100   **Min. Marks:40**
                                                               Duration : 2 ½ Hrs

OBJECTIVE:
* The objective of the course on Indian Economy at this level is to enable students to have an understanding of the various sectors, issues and problems of Indian Economy.

- Build competency & academic excellence for the competitive exams & to develop employability skills.

UNIT I

Basic features of Indian Economy: Natural resources (Land, Water, Forest); Broad Demographic features: Population size and growth rates, Problem of over population, Population policy, Sex composition, Rural-urban migration, Occupational distribution, Infrastructure development, National Income, Religious composition, Human Development Index.

UNIT II

Agriculture: Nature and importance; Trends in agricultural production; Factors determining productivity; Land reforms; Green Revolution; New Agricultural Strategy; Rural credit; Agricultural marketing; Agriculture and WTO; India's Food Policy; Linkage between agriculture and other sectors.

UNIT III

Industry: Industrial development during the Planning period; Industrial Policy of 1991; Industrial Financial Institutions- IFCI, ICICI, IDBI, SIDBI, IIBI, SFC'S; Role, growth, problems and recent policy of small sector industries and public sector enterprises.

Reference Books:

- Datt R. & K.P.M Sundharam (2012), Indian Economy, S. Chand & Co. Ltd., New Delhi.
- Misra S.K & V.K Puri (2012), Indian Economy, Himalaya Publication House, Mumbai.
- Agarwal A.N, Indian Economy: Problems of Development and Planning (2006).
- Uma Kapila (2012-13), Indian Economy since Independence, 23rd edition, Academic Foundation, New Delhi.
- Government of India, Economic Survey (Annual), Ministry of Finance, New Delhi.
- Government of India, Planning Commission: Five Year Plan Development.
- Jalan, B. (1992), The Indian Economy- Problems and Prospects, Viking, New Delhi.
- Jalan, B. (1996), The India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.
- Reserve Bank of India, Report on Currency and Finance (Annual).
- Ahluwalia, I.J & I.M.D Little (Editions) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
- Bardhan P.K (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.

ECOH - 104: Quantitative Techniques and Statistical Method I

Max. Marks: 100   **Min. Marks: 40**

Duration : 2 ½ Hrs

OBJECTIVE:

- This course is designed to introduce the students to the concepts of Quantitative analysis and inference.
- Build competency & academic excellence for the competitive exams & to develop research skills.

UNIT I

Basic Concepts: Variables, Sets, Functions, Identities, Systems of equations, Application of straight line system, Slope of the line, Homogeneous function; Calculus- Differentiation of a function, Maxima, Minima and Point of Inflexion.

UNIT II

Matrix and Determinants: Various types of Matrices, Determinants, Inverse of a Matrix, Crammer's Rule; Introduction to Statistics- Population, Sample, Parameter, Frequency distribution, Cumulative frequency; Graphical and Diagrammatic representation of data; Techniques of data collection; Concepts and types of Sampling; Primary and Secondary data.

UNIT III

Measures of Central Tendency: Mean, Median, Mode, Geometric Mean and Harmonic Mean; Measures of Dispersion: Range, Mean Deviation, Standard Deviation, Coefficient of Variation, Quartile Deviation; Skewness and Kurtosis.

Reference Books:

- Allen R.G.D (1974), Mathematical Analysis for Economists, Macmillan Press & ELBS, London.
- Chiang, A.C (1986), Fundamental Methods of Mathematical Economics, Mc Graw Hill, New York.
- B.C Madnani & G.M Mehta (2007), Mathematics for Economists, S. Chand Publication.
- Gupta S.P (2001), Statistical Methods, S. Chand & Sons.
- K.N Nagar, S.N Mittal, M.L Oswal, S.S Modi (2012), Fundamentals of Statistics, Ist Edition, Minakshi Prakashan, Meerut.
- Sharma J.K. (2013, Business Statistics, 2nd Edition, Pearson, New Delhi.
- Baumol V.J (1984), Economic Theory & Operations Analysis, Prentice Hall, Englewood Cliffs, New Jersey.
- Sydsaeter, Knut & Hammond, Peter. J. (2012), Mathematics for Economic Analysis, 7th Impression, Pearson Education, South Asia.
- Simon Carl P. & Blume Lawrence (2012), Mathematics for Economists, 5th Edition, Viva Norton Student Edition, New Delhi.

Course Structure in Semester II

Semester – II						
Papers Code	Theory Papers	CIA	ESE	Max. Marks	Min. Marks	Duration
ECOH - 201	Microeconomics II	30	70	100	40	2 ½ Hr.
ECOH - 202	Environmental Economics	30	70	100	40	2 ½ Hr.
ECOH - 203	Indian Economy II	30	70	100	40	2 ½ Hr.
ECOH - 204	Quantitative Techniques And Statistical Method II	30	70	100	40	2 ½ Hr.
	Total			400	160	

ECOH - 201: Microeconomics II

Max. Marks: 100   **Min. Marks: 40**
                                                           Duration : 2 ½ Hrs

OBJECTIVE:
- In this paper, student is expected to understand the behavior of an economic agent – a factor owner and the price fluctuations in a market.
- Build competency & academic excellence for the competitive exams & to develop employability skills.

UNIT I

Concepts of Revenue and Cost, Relationships between Average Revenue, Marginal Revenue and Price elasticity of demand. Market Structures: Perfect and Imperfect markets; Price and output determination in Perfect competition, Monopoly, Price discrimination under Monopoly; Measures of Monopoly power; Monopolistic competition, Oligopoly (Paul M. Sweezy model)

UNIT II

General theories of Distribution: The Marginal Productivity Theory and Modern Theory; Theories of Wage Determination; Collective bargaining, Wage Differentials; Rent: Scarcity Rent, Differential Rent, Quasi Rent; Interest: Classical, Neo classical and Keynesian Theories; Profits: Innovation, Risk and Uncertainty Theories.

UNIT III

Problems in measuring Welfare; Classical Welfare Economics; Pareto Criterion (Production, Consumption and Distribution); Concept of a Social Welfare Function; Compensation Principle: Kaldor and Hicks.

Reference Books:

- Samuelson P.A & W.O Nordhaus (1998), Economics 16th Edition, Tata McGraw Hill, New Delhi.
- Mankiw. Gregory. N (2007), Economics: Principles & Applications 4th Edition, India edition by South Western a part of Cengage Learning, Cengage Learning India Pvt. Ltd.
- Koutsoyiannis, A (1979), Modern Microeconomics, 2nd Edition, Macmillan Press, London.
- Verian H. (2000), Microeconomics Analysis, W.W Norton, New York.
- Ahuja H.L (2003), Advanced Economic Theory: Microeconomic Analysis, 13th Edition, S. Chand & Co. Ltd., New Delhi.
- Sen, A (1999), Microeconomics: Theory & Applications, Oxford University Press, New Delhi.
- Pindyck, R.S, D.L Rubinfield & P.L Mehta (2008), Microeconomics, 6th Edition, Dorling Kinderslay (India) Pvt. Ltd., Licenses of Pearson Education in South Asia
- Varian H.R (2000), Intermediate Microeconomics: A Modern Approach, 5th Edition, East-West Press, New Delhi.
- Case K.E & Ray C. Fair (2007), Principles of Economics, Pearson Education Inc., 8th Edition.
- Stiglitz J.E & Carl E. Walsh (2007), Economics 4th Edition, W.W Norton & Company Inc. New York, International Student Edition.

ECOH – 202   Environmental Economics

Max. Marks: 100   **Min. Marks: 40**
Duration : 2 ½ Hrs

OBJECTIVE:

- This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and economic implications of environmental policies are also discussed.
- Build competency & academic excellence for the competitive exams & to develop employability skills.

UNIT 1

What is environmental economics? Distinction between environment economics and natural resources economics. Environment economics linkages. Environment as a necessity and luxury. Issues of environment: problems of market failure: public bad and externalities. Social choice of optimum pollution.

UNIT 2

Theory of environmental regulation: price rationing, Pigovian taxes; Subsidies for Abatement of pollution-the case in short and long run; Property Rights and the Coasian Approach: bargain Solution. Types of pollution; laws and regulations regarding pollution control (Indian Context); food security.

UNIT 3

Sustainable development- concept and measurement; implementation of environmental policies; international environmental problem, trans-boundary environmental problems. Economics of climate change; trade and environment.

Reference Books:

- Singh, Katar & Shishodia, Anil (2007), Environmental Economics- Theory and Applications, 1st Edition, Sage Publications India Pvt. Ltd., New Delhi
- Kolstad, Charles D. (2005), Environmental Economics, Oxford University Press Inc., New Delhi

- Bhattacharya, Rabindra N. (Ed.)Environmental Economics: An Indian Perspective, Oxford University Press
- Joshi, M.V., Theories and Approaches of Environmental Economics, Atlantic Publishers & Distributors, New Delhi.
- M.N.Murthy Environment, Sustainable Development, and Well-being Valuation, taxes and Incentives,OUP May 2009.
- Oates W.E. (ed.) The Economics of the environment, An Elgar Critical Writings Reader, Edward Elgar, 1994.
- Kanchan Chopra and Vikram Dayal (ed.) Hand book of Environmental Economics in India. Oxford University Press 2009.

ECOH – 203   Indian Economy II

Max. Marks: 100   **Min. Marks: 40**
                                                                                                         Duration : 2 ½ Hrs

OBJECTIVES:
- The objective of the course on Indian Economy at this level is to enable students to have an understanding of the various sectors, issues and problems of Indian Economy.
- Build competency & academic excellence for the competitive exams & to develop employability skills.

UNIT I
Planning in India: Objectives, Strategy, Achievements and Failures; Financing of Plan expenditure; Economic Reforms- Rationale behind Economic Reforms; Economic Reforms of 1991 in the Financial, Industrial and External Sector. Current Five Year Plan: Objectives, Allocation and Targets.

UNIT II
External Sector: Role, Trends, Composition and Direction of India's Foreign Trade; Balance of Payments; Foreign capital: Aid, FDI, FII, MNC's and their impact on Indian Economy.

UNIT III
 Important areas of concern: Poverty, Unemployment, Inflation, Subsidies (Concept, Trends, Causes, Effects, Controlling measures).

Reference Books:
- Datt R. & K.P.M Sundharam (2012), Indian Economy, S. Chand & Co. Ltd., New Delhi.
- Misra S.K & V.K Puri (2012), Indian Economy, Himalaya Publication House, Mumbai.
- Agarwal A.N, Indian Economy: Problems of Development and Planning (2006).
- Uma Kapila (2012-13), Indian Economy since Independence, 23rd edition, Academic Foundation, New Delhi.
- Government of India, Economic Survey (Annual), Ministry of Finance, New Delhi.
- Government of India, Planning Commission: Five Year Plan Development.
- Jalan, B. (1992), The Indian Economy- Problems and Prospects, Viking, New Delhi.
- Jalan, B. (1996), The India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.
- Reserve Bank of India, Report on Currency and Finance (Annual).
- Ahluwalia, I.J & I.M.D Little (Editions) (1999), India's Economic Reforms and Development (Essays in honour of Manmohan Singh), Oxford University Press, New Delhi.
- Bardhan P.K (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.

ECOH- 204: Quantitative Techniques and Statistical Method II

Max. Marks: 100
Min. Marks: 40
Duration :2 ½Hrs

OBJECTIVES:

- This course is designed to introduce the students to the concepts of Quantitative & Statistical analysis and inference.
- Build competency & academic excellence for the competitive exams & to develop research skills.

UNIT I

Correlation: Simple, Coefficient of Correlation- Karl Pearson and Rank Correlation, Partial and Multiple Correlation analysis; Regression analysis: Estimation of regression line in a bivariate distribution (individual series), Least squares method, Interpretation of Regression coefficients; Interpolation: Newton's and Binomial methods.

UNIT II

Time Series Analysis: Concept, Determination of regular, Trend and Seasonal indices; Index Numbers: Concept, Price relative, Quantity relative and Value relative, Laspeyer's, Paasche's, Fisher, Family budget method, Tests for Ideal index number, Problems in the construction and limitations of index numbers. Calculus- Integration.

UNIT III

Association of attributes; Chi-square test; Probability- Concept, Rules of Probability(Addition, Multiplication), Conditional Probability, Baye's Theorem; Theoretical distribution: Properties and uses of Binomial, Poisson and Normal.

Reference Books:

- Allen R.G.D (1974), Mathematical Analysis for Economists, Macmillan Press & ELBS, London.
- Chiang, A.C (1986), Fundamental Methods of Mathematical Economics, Mc Graw Hill, New York.
- B.C Madnani & G.M Mehta (2007), Mathematics for Economists, S. Chand Publication.
- Gupta S.P (2001), Statistical Methods, S. Chand & Sons.
- K.N Nagar, S.N Mittal, M.L Oswal, S.S Modi (2012), Fundamentals of Statistics, Ist Edition, Minakshi Prakashan, Meerut.
- Sharma J.K. (2013, Business Statistics, 2nd Edition, Pearson, New Delhi.
- Baumol V.J (1984), Economic Theory & Operations Analysis, Prentice Hall, Englewood Cliffs, New Jersey.
- Sydsaeter, Knut & Hammond, Peter. J. (2012), Mathematics for Economic Analysis, 7th Impression, Pearson Education, South Asia.
- Simon Carl P. & Blume Lawrence (2012), Mathematics for Economists, 5th Edition, Viva Norton Student Edition, New Delhi.

Course Structure of Economics Honours in Semester III

Semester – III						
Papers Code	Theory Papers	CIA	ESE	Max. Marks	Min. Marks	Duration
ECOH - 301	Development Economics - I	30	70	100	40	2 ½ Hr.
ECOH - 302	International Economics - I	30	70	100	40	2 ½ Hr.
ECOH - 303	Public Finance – I	30	70	100	40	2 ½ Hr.
ECOH - 304	Macroeconomics - I	30	70	100	40	2 ½ Hr.
			Total	400	160	

ECOH - 301: Development Economics – I

Max. Marks: 100   **Min. Marks: 40**
                                                                         Duration:2 ½Hrs

OBJECTIVES: This course is designed to introduce the students to various concepts, models and theories of growth and development. Build competency & academic excellence for the competitive exams & to develop employability skills.

Unit I
Concept of economic growth and development; Factors affecting economic growth; Characteristics of developed and underdeveloped countries; Inequality and Growth: the inverted 'U' curve hypothesis; Economics of Education and Health: Meaning, Scope, as an instrument for economic growth to reap demographic dividends.

Unit II
Measuring development gap: GNP, PQLI, HDI, Gini coefficient and Lorenz curve; Human Resource Development and its measurement (education, health & income); Economic development and institutions: Market and market failure, State and state failure.

Unit - III
Growth models: Harrod and Domar; Neo- classical growth models: Solow, Meade, Mrs. Joan Robinson; Technological Progress: Embodied, Disembodied, Hicks and Harrod.

Reference Books:
- Todaro, Michael.P & Smith Stephen C (2014), Economic Development, 12th Edition, Pearson Education (Singapore) Pvt. Ltd., Delhi.
- Thirwal, A.P (2012), Growth and Development, Macmillan, London.
- Misra S.K, Puri V.K, (2012), Economics of Development and Planning, Himalaya Publishing House.
- Chennery, H. & T.N Srinivisan (Eds.) (1989), Handbook of Development Economics, Vols. 1 & 2, Elsevier, Amsterdam.
- United Nations (Annual), Human Development Report, United Nations, New York.
- World Bank (Annual), Infrastructure & Development, World Bank, Washington D.C.

ECOH - 302: International Economics – I

Max. Marks: 100   **Min. Marks: 40**
                                                                                     Duration:2 ½Hrs

OBJECTIVES: This course provides an understanding and knowledge about the basic principles and knowledge about the basic principles that tend to govern the free flow of trade in goods and services at the global level.

Unit – I
Theories of Absolute advantage, Comparative advantage and Opportunity cost. Heckscher-Ohlin theory of trade: main features, assumptions and limitations; Factor Reversal, Demand reversal and Leontief Paradox.

Unit – II
Factor Price Equalisation Theorem, Stopler-Samuelson Paradox, Rybcznski theorem, Offer Curve Analysis

Unit – III
Gains from Trade: Their measurement and distribution; Trade as an engine of growth; Concepts of Terms of Trade and their importance in the theory of trade; Doctrine of Reciprocal Demand: It's importance and limitations in the theory of trade; Immeserizing Growth

Reference Books:
- Kindleberger, C.P(1973), International Economics, R.D Irwin Homewood
- Salvatore, D. (2014), International Economics, Prentice Hall, Upper Saddle River, N.J, New York
- Soderston, Bo (1991), International Economics, The Macmillan Press Ltd., London
- Mannur, H.G (1999), International Economics, Vikas Publishing House Pvt. Ltd.
- Mithani, D.M. (1970), Introduction to International Economics, Vora.
- Krugman, P.R & M.Obstgeld (1994), International Economics Theory and Policy, Glenview, Foresman
- Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Mass
- Bhagwati, J.N., A. Panagariya and T.N Srinivasan (1998), Lectures on International Trade

ECOH - 303: Public Finance – I

Max. Marks: 100   **Min. Marks: 40**
                                                                                     Duration:2 ½Hrs

OBJECTIVES: The activities of State have considerably increased and the theoretical understanding of different State activities through the budgetary mechanism is essential. This is what this course attempts to provide.

Unit I
Meaning and scope of Public Finance; Role of Government in the Economy; Private vs. Public finance; Concept of Public goods, Private goods and Merit goods; The Principle of Maximum Social Advantage; Market Failure: Meaning, Causes and Role of government to control market failure.

Unit - II
Sources of Public revenue. Taxation: Meaning, classification and canons; Objectives of taxation in developed and developing economies; Characteristics of a good tax system; Taxable capacity. Division of tax burden: The Benefit and Ability- to- pay approaches; Impact, Incidence and Shifting of tax; Factors affecting incidence and shifting of taxes. Theories of tax shifting: Concentration, Diffusion and Modern theories; Incidence and shifting of taxes under Monopoly and Perfect competition; Effects of taxation, Laffer curve, Major trends in tax revenue of the Centre & state of Rajasthan, concept of G.S.T.

Unit - III
Public Expenditure: Meaning, classification and canons; Effects of Public expenditure; Wagner's law and the Peacock Wiseman's hypothesis; Crowding out; Trends in Public Expenditure of the Central government and Government of Rajasthan; Causes of growth of public expenditure in India.

Reference Books:

- Musgrave, R.A., The Theory of Public Finance, McGraw Hill, Kogakhusha, Tokyo
- Musgrave, R.A. & P.B Musgrave, Public Finance in Theory and Practice, Kogakhusha, Tokyo
- Mithani, D.M. (2006), Public Finance: Theory and Practice, Himalaya Publishing House
- Bhatia, H.L. (2009), Public Finance, 26th Edition, Vikas Publishing House Pvt. Ltd., New Delhi
- Tyagi, B.P. (2004), Public Finance, Jai Prakash Nath, Meerut
- Singh, S.K (2010), Public Finance in Theory and Practice, S.Chand & Co. Ltd., New Delhi
- Chelliah, Raja et.al, Trends and Issues in India's Federal Finance
- Reserve Bank of India (1977), Money Supply: Concepts, Compilation and Analysis, RBI Bulletin, January

ECOH - 304 Macroeconomics – I

Max. Marks: 100   **Min. Marks: 40**
                                                          Duration:2 ½Hrs

OBJECTIVES: Macroeconomics is the major area of economic analysis in terms of theoretical, empirical as well as policy making uses. This course is designed to make an undergraduate student aware of the basic theoretical framework underlying the field of Macroeconomics.

Unit - I

Nature and scope of Macroeconomics; Fallacy of Composition; Macroeconomics Models; National Income: Concept and measurement; National Income identities with four sectors; Problems in measurement of National Income; National Income and Welfare.

Unit - II

Demand for Money: Traditional version of Quantity Theory of Money; Friedman's Quantity Theory of Money; Tobin's and Baumol's Analysis. Supply of Money: Money multiplier theory; Inflation: Causes, types, consequences and cures; Phillips curve hypothesis.

Unit - III

The Classical model of determination of level of output and employment; Keynes' criticism against classical theory; Keynesian theory of Output and Employment: General Equilibrium analysis.

Reference Books:

- Shapiro, E. (1996), Macroeconomic Analysis, 5th Edition, Galgotia Publications, New Delhi
- Mankiw (2007), Principles of Macroeconomics, 4th Edition, Thomson South-Western, a part of Cengage Learning, Cengage Learning India Pvt. Ltd.
- Dornbauch, R. & F.Stanley (1997), Macroeconomics, McGraw Hill Inc., New York
- Ahuja, H.L (2011), Macroeconomics- Theory and Policy, S. Chand & Co. Ltd., New Delhi
- K.C Rana & K.N Verma, (2014) Macroeconomics Analysis, Vishal Publishing house.
- Errol D'Souza (2008), Macroeconomics, Dorling Kindersley (India) Pvt. Ltd., Pearson Education in South Asia
- Branson, W.H., Macroeconomic Theory & Policy, Harper and Row, New York
- Blanchard Olivier & Fisher Stanley, Lectures on Macroeconomics, Cambridge, MIT Press

Course Structure of Economics Honours in Semester IV

	Semester – IV					
Paper Code	**Theory Paper**	**CIA**	**ESE**	**Max. Marks**	**Min. Marks**	**Duration**
ECOH – 401	Development Economics - II	30	70	100	40	2 ½ Hr.
ECOH - 402	International Economics - II	30	70	100	40	2 ½ Hr.
ECOH - 403	Public Finance - II	30	70	100	40	2 ½ Hr.
ECOH - 404	Macroeconomics - II	30	70	100	40	2 ½ Hr.
			Total	**400**	**160**	

ECOH – 401 Development Economics – II

Max. Marks: 100   **Min. Marks: 40**
Duration:2 ½Hrs

OBJECTIVES: This course is designed to introduce the students to various concepts, models and theories of economic growth and development.

Unit - I

Partial theories of growth and development: Vicious circle of poverty, Balanced growth and Unbalanced growth (Rosenstein-Rodan and Hirschman), Rostow's stage theory, Circular causation, Unlimited supply of labour, Critical minimum effort thesis, Low equilibrium trap,

Unit – II

Classical model of growth; Schumpeter- Innovation, enterprise and process of 'creative destruction'; Karl Marx: theory of development; Rejection of trade as the 'engine of growth'. Dualism- Technical, Financial and Social.

Unit – III

Need for Investment criteria in LDC'S; Alternative investment criteria; Cost benefit analysis; Need for planning; Types of planning: Democratic, Decentralized, Indicative, Micro level, Physical and Financial.

Reference Books:
- Todaro, Michael.P & Smith Stephen C (2005), Economic Development, 8th Edition, Pearson Education (Singapore) Pvt. Ltd., Delhi.
- Thirwal, A.P (2012), Growth and Development, Macmillan, London.
- Misra S.K, Puri V.K, (2012), Economics of Development and Planning, Himalaya Publishing House.
- Chennery, H. & T.N Srinivisan (Eds.) (1989), Handbook of Development Economics, Vols. 1 & 2, Elsevier, Amsterdam.

ECOH - 402: International Economics – II

Max. Marks: 100   **Min. Marks: 40**
Duration: 2 ½Hrs

OBJECTIVES: This course provides an understanding and knowledge about the basic principles and knowledge about the basic principles that tend to govern the free flow of trade in goods and services at the global level. Build competency & academic excellence for the competitive exams & to develop employability skills.

Unit - I

Types of Tarrifs and Quotas and their impact in Partial equilibrium analysis; Free trade and policy of tariffs in relation to economic growth with special Suggested to India; Concept of Optimum tariff and Effective Rate of Protection[1].

Unit - II

Concepts and components of Balance of Trade and Balance of Payments; Equilibrium and disequilibrium in Balance of Payments; Consequences of disequilibrium in Balance of Payments; Measures to correct deficit in Balance of Payments; Merits, demerits and limitations of Devaluation; J-curve[2].

Unit - III

Economic integration[3]: Types and benefits; Concept and implications of Foreign Trade Multiplier; Functions of IMF, World Bank, GATT/WTO,UNIDO[5]; History of reforms in International Monetary System[6].

Reference Books:

- Kindleberger, C.P(1973), International Economics, R.D Irwin Homewood
- Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River, N.J, New York
- Soderston, Bo (1991), International Economics, The Macmillan Press Ltd., London
- Mannur, H.G (1999), International Economics, Vikas Publishing House Pvt. Ltd.
- Mithani, D.M. (1970), Introduction to International Economics, Vora.
- Krugman, P.R & M.Obstgeld (1994), International Economics Theory and Policy, Glenview, Foresman
- Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Mass
- Bhagwati, J.N., A. Panagariya and T.N Srinivasan (1998), Lectures on International Trade

ECOH - 403 Public Finance – II

Max. Marks: 100   **Min. Marks: 40**
                                                                                           Duration:2 ½Hrs

OBJECTIVES: The activities of State have considerably increased and the theoretical understanding of different State activities through the budgetary mechanism is essential. This is what this course attempts to provide.

Unit - I

Sources of public debt; Effects of public debt; Methods of debt redemption; Growth of India's Internal and External debt. Kinds of Budget; Economic and Functional classification of the budget, Concept of Zero Budgeting and Optimal Budget. Concepts of deficit: Budget deficit, Fiscal deficit, Revenue deficit, Primary deficit, Monetized deficit, Operational deficit. Deficit financing: meaning, effects.

Unit - II

Concepts, Rules and role of Functional finance. Fiscal Policy: Objectives, Instruments and limitations. Concept of Balanced Budget Multiplier.

Unit -III

Fiscal Federalism: Meaning and principles. Federal finance in India: Division of resources between center and states, Constitutional provisionsand problems of center-state financial relations in India. Latest recommendations of the Finance Commission. N.D.C formula for plan allocation.

Reference Books:

- Musgrave, R.A., The Theory of Public Finance, McGraw Hill, Kogakhusha, Tokyo
- Musgrave, R.A. & P.B Musgrave, Public Finance in Theory and Practice, Kogakhusha, Tokyo
- Mithani, D.M. (2006), Public Finance: Theory and Practice, Himalaya Publishing House
- Bhatia, H.L. (2009), Public Finance, 26th Edition, Vikas Publishing House Pvt. Ltd., New Delhi
- Tyagi, B.P. (2004), Public Finance, Jai Prakash Nath, Meerut
- Singh, S.K (2010), Public Finance in Theory and Practice, S.Chand & Co. Ltd., New Delhi
- Chelliah, Raja et.al, Trends and Issues in India's Federal Finance
- Reserve Bank of India (1977), Money Supply: Concepts, Compilation and Analysis, RBI Bulletin, January

ECOH – 404 Macroeconomics – II

Max. Marks: 100   **Min. Marks: 40**
                                                                       Duration:2 ½Hrs

OBJECTIVES: Macroeconomics is the major area of economic analysis in terms of theoretical, empirical as well as policy making uses. This course is designed to make an undergraduate student aware of the basic theoretical framework underlying the field of Macroeconomics.

Build competency & academic excellence for the competitive exams & to develop employability skills.

Unit - I

Theories of consumption: Absolute, Relative, Permanent and Life-cycle hypothesis; IS-LM curves: Derivation, Interaction of Money market and Product market; Relative effectiveness of Fiscal and Monetary policies.

Unit - II

Multiplier: Concept, operation, leakages and weaknesses; Multiplier analysis in 4 sector economy; Accelerator: Concept, operation and weaknesses; The Multiplier-Accelerator interaction.

Unit - III

Trade cycles: Nature and characteristics; Hawtrey's Monetary Theory; Hayek's Over Investment theory; Keyne's view of trade cycles; Samuelson & Hicks' multiplier-accelerator model of trade cycles; Control of trade cycles.

Reference Books:

- Shapiro, E. (1996), Macroeconomic Analysis, 5th Edition, Galgotia Publications, New Delhi
- Mankiw (2007), Principles of Macroeconomics, 4th Edition, Thomson South-Western, a part of Cengage Learning, Cengage Learning India Pvt. Ltd.
- Dornbauch, R. & F.Stanley (1997), Macroeconomics, McGraw Hill Inc., New York
- Ahuja, H.L (2011), Macroeconomics- Theory and Policy, S. Chand & Co. Ltd., New Delhi
- Errol D'Souza (2008), Macroeconomics, Dorling Kindersley (India) Pvt. Ltd., Pearson Education in South Asia
- Branson, W.H., Macroeconomic Theory & Policy, Harper and Row, New York
     Blanchard Olivier & Fisher Stanley, Lectures on Macroeconomics, Cambridge, MIT Press

Course Structure of Economics Honours in Semester-V

Semester –V						
Paper Code	**Theory Papers**	**CIA**	**ESE**	**Max. Marks**	**Min. Marks**	**Duration**
ECOH - 501	Banking & Financial Markets - I	30	70	100	40	2 ½ Hr.
ECOH - 502	Introduction To Econometrics	30	70	100	40	2 ½ Hr.
ECOH - 503	Mathematical Economics - I	30	70	100	40	2 ½ Hr.
ECOH - 504	Computer& its Applications -Theory	20	50	70	28	2 ½ Hr.
ECOH – 505	Computer& its Applications – Practical	10	20	30	12	2 ½ Hr.
	Total			**400**	**160**	

ECOH - 501: BANKING & FINANCIAL MARKETS - I

Max. Marks: 100   **Min. Marks: 40**
                                                                              Duration: 2½Hrs

OBJECTIVES: This course is designed to acquaint the students with the structure, functions and changing role of financial institutions in the economy.

Unit - I

Money: Meaning, functions and kinds; Components of supply of money; Money and Capital markets; Regulated and Unregulated credit markets; Features of a developed money and capital market; Importance of Financial system in India.

Unit - II

Commercial banks: functions, types and objectives; The process of credit creation- purpose and limitations; Liabilities and assets; Role of commercial banks before and after nationalization in India; Pre-requisites of a sound commercial banking system; Structure of cooperative institutions and Development banks in India (Industrial development banks, Agricultural development banks, Export-Import development banks and Housing development banks)- Objectives, role and limitations.

Unit - III

Financial structure in India; Functions of Financial institutions in India. Functions and Objectives of Central bank; Instruments of credit control; Role and functions of the Reserve Bank of India; Development and regulatory role of RBI; Measures used by RBI to control Inflation; Recent Monetary policy of RBI.

Reference Books:

- V. Pathak, Bharti (2011), The Indian Financial System: Markets, Institutions and Services, 3rd Edition, Pearson Education, India
- Desai, Vasant (2005), Indian Financial System and Financial Market Operation, New Pace, New Momentum, Himalaya Publishing House
- Machiraju, H.R. (2009), Indian Financial System, 3rd Edition, Vikas Publishing House Pvt. Ltd.
- Gupta, S.B (2010), Monetary Economics, S. Chand & Company, New Delhi
- Mithani, D.M (2011), Money, Banking, International Trade and Public Finance, Student Edition (16th), Himalaya Publishing House

ECOH - 502: Introduction to Econometrics

Max. Marks: 100   **Min. Marks: 40**
                                                                              Duration: 2½Hrs

OBJECTIVES:

The main objective of the course is to introduce students to basics of Econometrics techniques and to prepare them to do their own applied work. Build competency & academic excellence for the competitive exams & to develop research skills.

UNIT-I

Definition, Scope, Goals and Divisions of Econometric. Methodology of Econometric Research. Correlation theory. R2 and Adjusted R2.

UNIT-II

Linear Regression Model in two variables, method of ordinary least squares (OLS), properties of BEST estimator.

UNIT-III

Econometric Problems: Nature, consequences, detection and remedial measures of the problems of multicollinearity, hetroscedasticity and autocorrelation.

Reference Books:
- A Koutsoyiannis, Theory of Econometrics, Ane Books.
- D Guajarati: Basic Econometrics, McGraw Hill.

ECOH - 503: MATHEMATICAL ECONOMICS - I

Max. Marks: 100   **Min. Marks: 40**
                                                       Duration: 2½Hrs

OBJECTIVES: This course is designed to teach the basic framework of Mathematics that enables the study of economic theory, specifically the courses in Microeconomic theory and Macroeconomic theory.
Build competency & academic excellence for the competitive exams & to develop employability skills.

Unit - I

Maxima and Minima (critical points); convexity and concavity; Optimisation: constraint optimisation- global optima and local optima (Total Derivative Method and Lagrange Multiplier); introduction of Difference and Differential Equations.

Unit - II

Consumer Theory: Utility function; Budget line; Consumer's equilibrium; Income effect, Substitution effect and Price effect; Slutsky equation; Derivation of demand curve; Elasticity of demand; Consumer surplus.

Unit - III

Theory of production: Properties of production function- Homogeneous, non-homogeneous, Cobb-Douglas, CES, Returns to scale; Technology progress and production function; Choice of optimal combination of factors of production; Cost and Revenue functions; Derivation of Cost curves; Relation between total, average and marginal cost and revenue; Producer surplus; Production Possibility Curve; Adding up theorem.

Reference Books:
- Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press &ELBS, London
- Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York
- 3.B.C Madnani& G.M Mehta (2007), Mathematics for Economists, S. Chand Publications
- 4.Baumol, W.J.(1984), Economic Theory and Operations Analysis, Prentice Hall, Englewoood Cliffs, New Jersey
- 5.Sydsaeter, Knut & Hammond, Peter. J. (2012), Mathematics for Economic Analysis, 7th Impression, Pearson Education, South Asia

ECOH – 504 Computer& its Applications

Max. Marks: 100   **Min. Marks: 40**
                                                       Duration: 2½Hrs

OBJECTIVES:
On successful completion of the course, the students will be able to understand the role of operating system and application software such as tools of Microsoft Word, Excel and MS Access.

UNIT-I

Introduction to Computer : Definition, Block Diagram, Characteristics, Hardware & Software. Software & its types,User Interface: Concept of CUI & GUI.**MS Windows,**Features of Windows, Desktop (My Computer, My Document, Recycle Bin,Internet Explorer. Start Menus and Taskbar, Windows Explorer.

MS-Word: Introduction to MS-Word, Features, Application Areas & its uses, types of views, **Creating & Saving:** New Document.**Formatting, Editing&Printing:** Cut, copy, paste, undo, redo, Fonts, Paragraphs: Indentation & Spacing, Columns Styles, Find, Replace &Goto.

UNIT-II

MS-Word: Inserting Tables, Picture, ClipArt, Shapes, Symbols & Equations, Hyperlink, Bookmark, Converting, Header & Footer. DropCap, Textbox, WordArt, Date & Time, Footnotes &Endnotes, Watermark, Page Color, page Borders, Page background. Macros, Auto correct & Auto text, Page Setup, Size, Margins, Gutter, Orientation.

MS-Excel: Introduction, Features, Application Areas & its uses, views & its types, formatting & its types,Functions & Formulas **Math &trig:** abs, int, even, odd, fact, mod, pi, power, product, round, roman, sign, sqrt, trim. **Statistical:**Average, count. **Charts** : Line, bar, column, area, pie. Pivot Tables,**Data management**: Sort, filters, Validation, auditing & tracing.

<div align="center">UNIT-III</div>

MS-PowerPoint: Introduction to PowerPoint, Features, Application Areas & its uses, Creating Presentations through Blank Presentations, Templates, Slide Master, Views of PowerPoint.

Formatting &Customizing Presentations: Slide Transactions, Custom Animation, Inserting sounds, Set up & Custom Slide Shows , Handouts.

MS-Access: Introduction,concepts of databases, Data Types, creating a tables,adding of records, queries(select, update, delete), creating Blank reports.

Reference Books:
- Microsoft Office 2007 – Joyce Cox & Joan Preppernau – PHI Publication
- Working in Microsoft Office- Ron Mans Field, TMH
- Absolute Beginners Guide To Computer Basics 4th Edition, Michael miller, Pearson
- PC- Software- Dr. NeerajBhargava , University Book House.

Course Structure of Economics Honours in Semester-VI

Semester – VI						
Paper Code	**Theory Papers**	**CIA**	**ESE**	**Max. Marks**	**Min. Marks**	**Duration**
ECOH - 601	Banking & Financial Markets - II	30	70	100	40	2 ½ Hr.
ECOH – 602	Data Analysis through- SPSS & EViews	30	70	100	40	2 ½ Hr.
ECOH - 603	Mathematical Economics - II	30	70	100	40	2 ½ Hr.
ECOH - 604	Field Survey/Project Work	30	70	100	40	2 ½ Hr.
			Total	400	160	

ECOH - 601: BANKING & FINANCIAL MARKETS - II

Max. Marks: 100   **Min. Marks: 40**

                                                              Duration: 2½Hrs

OBJECTIVES: This course is designed to acquaint the students with the structure, functions and changing role of financial institutions in the economy.

Unit - I

Banking and Financial system reforms and their impact on economic growth in India. NBFI'S viz. Mutual funds, LIC, Investment companies, Venture capital: Definition, types, growth and importance; Recent measures taken by RBI and SEBI to regulate their working in the sound monetary management of India.

Unit - II

The structure of Financial Markets: Call money, Treasury bills, Commercial bills, The Stock market and market for Gilt edged securities. SEBI and working of capital markets in India.

Unit - III

Foreign exchange; Foreign exchange rate; Foreign exchange market- Concepts of Spot exchange rates and forward exchange rates; Determination of exchange rates under fixed and flexible exchange rates; Role of hedging in the determination of exchange rates . Euro-Dollar market- Role and significance.

Reference Books :

- V. Pathak, Bharti (2011), The Indian Financial System: Markets, Institutions and Services, 3rd Edition, Pearson Education, India
- Desai, Vasant (2005), Indian Financial System and Financial Market Operation, New Pace, New Momentum, Himalaya Publishing House
- Machiraju, H.R. (2009), Indian Financial System, 3rd Edition, Vikas Publishing House Pvt. Ltd.
- Gupta, S.B (2010), Monetary Economics, S. Chand & Company, New Delhi
- Mithani, D.M (2011), Money, Banking, International Trade and Public Finance, Student Edition (16th), Himalaya Publishing House

ECOH - 602: Data Analysis through- SPSS & EViews

Max. Marks: 100   **Min. Marks: 40**

Theory: 70 (20+ 50)   **Duration: 2½Hrs**

Practical: 30 (10+20)

OBJECTIVES: This course is designed to teach the students fundamentals of SPSS and EViews to enable them to analyse data. Build competency & academic excellence for the competitive exams & to develop research skills.

Unit – I

Introduction to SPSS: Data Entry, Data Editor, Basic calculations, Frequencies, Missing values, Split files, Import Export Files Using EXCEL Data. Visual Statistics: Chart Builder, Histograms, Box plots, Bar Charts, Line Charts, Pie Charts, Editing graphs and Axes.

Unit –II

Data Analysis Using SPSS: Mean, T-test, One way ANOVA, Non Parametric Tests, Normality test. Linear Correlation and Regression.

Unit- III

Basic introduction of Eviews- overview of the EViews, creating work files, saving your work, command description, frequency conversion, basic graphs, linear regression model and correlation model.

Reference Books :

- Field A. Discovering statistics using SPSS, Sage Publication.
- SPSS for Dummies, Wiley Publishing
- SPSS Survival Manual: A step by step guide to data analysis using SPSS, Open University Press
- Using EViews for Principles of Econometrics, William E. Griffiths, R.Carter Hill, Guay C. Lim, Wiley Publishing.

- Intrilligator, M.D. (1978), Econometric Models, Techniques & Applications, Prentice Hall, Englewood Cliffs, N.J. New Delhi.

ECOH - 603: Mathematical Economics – II

Max. Marks: 100   **Min. Marks: 40**
                                                             Duration: 2½Hrs

OBJECTIVES: This course is designed to teach the basic framework of Mathematics that enables the study of economic theory, specifically the courses in Microeconomic theory and Macroeconomic theory.
Build competency & academic excellence for the competitive exams & to develop employability skills.

Unit - I
Game theory: Introduction and Concept; Simple and Mixed strategy; Saddle point solution; Prisoner's dilemma; Pay off matrix of a game - Two-person-two-commodity and zero-sum game.

Unit - II
Market Structure/Pricing: Concept of equilibrium; Equilibrium of the firm under Perfect competition, Monopoly, Price discrimination, Monopolistic competition; Subsidies and Taxes; Economies of scale; Market equilibrium; Economic interpretation of time lag in function; Cobweb model.

Unit - III
Input-Output analysis: The simple closed and open model; Linkages- concepts and measurement; Dynamic Input-Output model; Linear programming- Graphic and Simplex method.

Reference Books:
- Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press &ELBS, London
- Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York
- B.C Madnani& G.M Mehta (2007), Mathematics for Economists, S. Chand Publications
- Baumol, W.J.(1984), Economic Theory and Operations Analysis, Prentice Hall, Englewoood Cliffs, New Jersey
- Sydsaeter, Knut & Hammond, Peter. J. (2012), Mathematics for Economic Analysis, 7th Impression, Pearson Education, South Asia

ECOH - 604: Field Survey/Project Work

Max. Marks: 100   **Min. Marks: 40**
                                                             Duration: 2½Hrs

OBJECTIVES:
On successful completion of the course the student will be able to-
1. Design project and formulate policies.

This paper will consists of Project work/ Field survey and Viva-Voce. Dissertation submitted by the students would be evaluated by External Examiners appointed by the institute for marks of 70. Remaining 30 marks would be given by the internal examiner as per the rules and regulations.