

Dr. K. Anji Reddy  
M.A.,M.Ed.,M.Phil.,Ph.D.



DEPARTMENT OF ECONOMICS  
MAHATMA GANDHI UNIVERSITY  
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No. 9 /Eco/MGU/2023

Date: 06-10-2023

To  
The Dean  
College Development Council  
Mahatma Gandhi University  
Nalgonda-508254.

Sir,

Sub: Dept. of Economics – Revised syllabus for academic year 2023-24-Submitted-Reg.  
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Adverting to the subject cited, the revised syllabus of the Dept. of Economics for the academic year 2023-24 for all the semesters (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> Semesters) approved in the board of studies meeting of Economics.

Therefore, the same is submitted for your information and further necessary action in the matter.

Yours sincerely

  
Dr. K. Anji Reddy

Received  
Sri H  
06/10/23

**REVISED ECONOMICS SYLLABUS FOR M.A. TWO YEAR  
PROGRAMME**

**W. E. F 2023-24 ACADEMIC YEAR**




**DEPARTMENT OF ECONOMICS  
MAHATMA GANDHI UNIVERSITY, NALGONDA, TELANGANA STATE  
PIN CODE - 508254**

**DETAILS OF COURSES FOR POST-GRADUATION IN MASTER OF ARTS IN ECONOMICS (W.E.F. 2023-24)**

I SEMESTER				II SEMESTER				III SEMESTER				IV SEMESTER			
Course	Teaching Hours	Credits	S. No	Course	Teaching Hours	Credits	S. No	Course	Teaching Hours	Credits	S. No	Course	Teaching Hours	Credits	S. No
Microeconomic Analysis- I	4	4	1	Micro Economic Analysis - II	4	4	1	Econometrics -I	4	4	1	Econometrics-II	4	4	1
Macro Economic Analysis	4	4	2	Monetary Economics	4	4	2	Indian Economy	4	4	2	International Economics	4	4	2
Quantitative Methods - I	4	4	3	Quantitative Methods - II	4	4	3	Research Methodology	4	4	3	Public Economics	4	4	3
Computer Applications in Economics	4	4	4	Data Analysis using SPSS Software	4	4	4	a) Environmental Economics b) Industrial Economics - I	4	4	4	a) Economics of Social Sector b) Industrial Economics - II	4	4	4
History of Economic Thought	4	4	5	Financial Economics	4	4	5	a) Economics of Insurance b) Development Economics	4	4	5	a) Economics of Infra Structure b) Agricultural Economics	4	4	5
-----	--	--	6	Human Values and Professional Ethics (Add on)	2	2	6	Telangana Economy (ID)	2	2	6	Project Work			
<b>Total</b>	<b>20</b>	<b>20</b>		<b>Total</b>	<b>22</b>	<b>22</b>			<b>22</b>	<b>22</b>			<b>20</b>	<b>22</b>	

**Total credits 88**

  
**(Dr. K. Anjali Reddy)**  
**Chairman, Board of Studies**  
**Department of Economics, MGU**  
**Mahatma Gandhi University**  
**NALGONDA - 506 254**

Semester	Course Name	Course Code
Semester-I	Microeconomic Analysis - I	MAECO101
	Macro Economics Analysis	MAECO102
	Quantitative Methods - I	MAECO103
	Computer Applications in Economics	MAECO104
	History of Economic Thought	MAECO105
Semester-II	Micro Economic Analysis - II	MAECO201
	Monetary Economics	MAECO202
	Quantitative Methods - II	MAECO203
	Data Analysis using SPSS Software	MAECO204
	Financial Economics	MAECO205
	Human values and Professional Ethics	
Semester-III	Econometrics-I	MAECO301
	Indian Economy	MAECO302
	Research Methodology	MAECO303
	a) Environmental Economics b) Industrial Economics - I	MAECO304/A MAECO304/B
	a) Economics of Insurance b) Development Economics	MAECO305/A MAECO305/B
	ID (Telangana Economy)	MAECO/ID001
Semester-IV	Econometrics-II	MAECO401
	International Economics	MAECO402
	Public Economics	MAECO403
	a) Economics of Social Sector b) Industrial Economics - II	MAECO404/A MAECO404/B
	a) Economics of Infrastructure b) Agricultural Economics	MAECO405/A MAECO405/B
	Project Work	MAECOPW001

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## Semester - I

Course Code: <b>MAECO101</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Micro Economic Analysis - I</b>
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**Module 1: Consumer Theory:** Income and Substitution Effects (Slutsky and Hicks), Consumer surplus and its implications. Compensated Demand Curve, Revealed Preference Analysis, Hicks' Revision of Demand Theory.

**Module 2: Production Theory:** Isoquant Production Function; Returns to Scale- Economies of Scale, Linear Homogeneous Production function – Cobb Douglas production function, CES Production Function, Hicks, and Harrod Technical Progress. Cost Functions – short run and long run costs, Modern theory of Costs.

**Module 3: Imperfect Competition - I:** Perfect VS Imperfect competition markets, Determination of Market price and quantity, Chamberlain's Monopolistic Competition - Short Run and Long run equilibrium of the firm and industry, Derivation of Supply curve, Monopoly: Short and long run equilibrium, Monopoly power, Price discrimination; Control, and regulation of monopoly.

**Module 4: Imperfect Competition II:** Monopsony, Bilateral Monopoly, and Duopoly Models - Cournot, Bertrand, Edge worth and Stackelberg Models. Oligopoly: Characteristics, Sweezy's kinked Demand model, Models of cartels and price leadership, introduction to game theory.

### References

1. Gravelle, H and R. Rees, Microeconomics. Pearson Education, 3rd Edition, 2004.
2. Henderson, M. and R.E. Quandt, Microeconomic Theory: Mathematical Approach. McGraw Hill, 3rd edition, 1980.
3. Koutsoyiannes. A, Modern Microeconomics. Macmillan Press Limited, New York, 1979.
4. Krugman, Paul Wells, Robin *Microeconomics*, Worth Publishers W H FREEMAN & CO.
5. Mas-collel, Whinston and Green, Micro-economic Theory. OUP, 1995.
6. Nicholson, W., Microeconomic Theory: Basic Principles and Extensions, eighth edition, South Western Thomson Learning, 2002.
7. Salvatore, Dominick, Micro Economics Theory & Applications, Oxford University Press, Inc. 198 Madison Avenue. New York, 2003.
8. Sen, Anindya, Micro Economic Theory and Applications, Oxford University Press, New Delhi, 1999.
9. Varian, H. R., Intermediate Microeconomics: A Modern Approach, third edition, 2010.
10. Varian, H. R., Microeconomic Analysis. (2009), Indian edition, W.W. Norton, and Co., 1992.

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## Semester - I

Course Code: <b>MAECO102</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Macro Economics Analysis</b>
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### Unit – I National Income Accounting

Types of Variables - Various Concepts and Measurements of Aggregate Income – Product, Income, and Expenditure Methods - Different forms of national income accounting – social accounting input-output accounting flow of funds accounting and balance of payments accounting - Circular Flow of Income ( Two, three and Four sectors); GDP – Real vs. Nominal GDP – Measuring the Unemployment Rate – Unemployment, GDP and the Okun's Law.

**Unit – II Theories of Consumption:** The Classical Views on Consumption – The Psychological Law of Consumption – Kuznets's Consumption Puzzle – Fisher's Intertemporal Choice Model – Permanent Income Hypothesis – Life Cycle Hypothesis – Dusenbery's Relative Income and Past Income Hypothesis – Empirical Works on Consumption Functions.

### Unit – III Theories of Investment and Interest:

**Theories of Investment:** Introduction to Investment - The Neoclassical Theory of Investment – Capital Theory and Theory of the Firm – Finance and the Cost of Capital – The Accelerator Theory of Investment – The Stock Market and Tobin's Q – Determinants of Investment.

**Theories of Interest:** Introduction to Interest – Classical, Neo Classical (Loanable Funds), Keynes (Liquidity Preference Interest) and Post-Keynesians' Theories of Interest.

**Unit IV: IS-LM model (Closed Economy):** Introduction to IS-LM Curves and its Derivation – The interaction of real and monetary models – the Neoclassical and Keynesian version of IS-LM model – Fiscal and monetary analysis in IS-LM model – Fiscal policy and crowding out effect – Ricardian equivalence - the relative efficacy of fiscal and monetary policy-the Aggregate supply in the short and long run-Aggregate demand and price determination-Pigou effect and Real Balance effect in the IS-LM model.

**IS-LM model (Open Economy):** The Mundell-Flemming Model – The Fiscal and Monetary Policy Operation under Fixed and Floating Exchange Rate Regime – Trade Policy in IS-LM Models.

### References:

1. Gregory Mankiw (2019), Macroeconomics, Worth Publishers
2. David Romer (2018), Advanced Macroeconomics, McGraw-Hill.
3. Wendy Carlin and David Soskice (2015) Macroeconomics: Institutions, Instability and the Financial System, Oxford University Press.

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4. Powelson, J.P. (1960), National Income and Flow of Funds Analysis, McGraw Hill, New York.
5. Rao, V.K.R.V. (1983), India's National Income: 1950 to 1980, sage Publications, New Delhi.
6. Friedman.M. (1957), Theory of Consumption Function, Princeton University Press, Princeton.
7. Ruggles, R.and N. Ruggles (1956), National Income Accounts and Income Analysis, McGraw Hill, New York
8. Duesenberry, J.S (1949), Income, Saving and the Theory of Consumer Behaviour. Harvard University Press, Harvard.
9. Blanchard, Olivier (2000), Macroeconomics, Prentice Hall.
10. Blanchard, Olivier and Stanley, Fischer (1989), "Lectures on Macroeconomics", The MIT Press.

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## Semester - I

Course Code: <b>MAECO103</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Quantitative Methods - I</b>
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**Unit - I Introduction to Statistics:** Definition of Statistics, Uses and limitations of Statistics in Economics, Types of Data (Time series, Cross Section), Measures of Central tendency – mean, median and mode, Measures of Dispersion – range, quartile deviation, mean deviation, standard deviation, variance, coefficient of variation, Gini coefficient.

**Unit - II Correlation and Regression:** Concept of correlation, Karl Pearson's Coefficient of correlation, Spearman's rank coefficient of correlation, Simple regression, Estimation of regression coefficients by ordinary least square methods, standard error, or regression line.


Index Numbers: Methods of constructing Index numbers and their uses, weighted and un-weighted indices, Laspeyer's, Pasche's and Fisher's indices, Cost of living index numbers.

**Unit – III Mathematics – I:** Uses and limitations of Mathematics in Economics, Concept of function and type of functions, Concepts of derivative, Rules of differentiation. Interpretation of revenue, Cost demand, supply functions, Elasticities, and their types.

**Unit - IV Mathematics – II:** Multivariable functions, Concept and types of production functions, rules of partial differentiation and interpretation of partial derivatives, Problems of maxima and minima in single and multivariable functions.

### References

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Mac Millan Press and ELBS, London.
2. Chiang, A.C. (1988), Fundamental Methods of Mathematical Economics, Mac Graw Hill, New York.
3. Dowling, E.T. (1992), Mathematical Economics 2<sup>nd</sup> Edition, Mac Graw Hill, New York.
4. Gupta, S.P. (2007), Statistical methods, Sultan Chand and Sons, New Delhi.
5. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas publishing house, New Delhi.
6. Nagar, A.L. and Das, R.K. (1983): Basic Statistics 2<sup>nd</sup> Edition, OUP, Delhi.
7. Speigal, M.R. (1992), Theory and Problems of Statistics, Mc Graw Hill Book Co., London.
8. Yamune, Taro (1975) Mathematics for Economists, Prentice Hall of India, New Delhi.

  
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## Semester - I

Course Code: <b>MAECO104</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Computer Applications in Economics</b>
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**Unit - I Introduction to Computer and Operating Systems and Use of Computer for Office Automation:** Computer Organisation; CPU; Types of Memory; Input and Output devices; Classification of computers; Programming languages; Operating System - DOS and Windows; Data Representation and the Number systems: decimal, binary, octal and hexadecimal; Computer Applications in different fields like Banks, Post-Office, Railways, Income tax.


**Unit – II MS Word and PowerPoint:** Ms-Word: Creating, Opening, and saving files – editing and formatting text – spell and grammar check – auto correct – creation of tables and volumes; MS-Power Point: Concept of presentation – creating, opening, and saving the slide shows – animation – viewer’s presentation.

**Unit – III MS Excel and Data Processing Using Excel:** Concept and use of spread sheet, Structure of a spread sheet, spread in-built functions, chart feature of a spread sheet, Operation and Use of MS-Excel and Lotus Smart-suite; Concept of Data – Record and File – Types of Data – Data Entry – File handling and Operations like opening, appending, and cascading – closing and attribute controls – Data Storage and Retrieval.

**Unit - IV Data operations:** Preparation and Formatting of Text, Tables and Graphs – Estimation of Descriptive Statistics, Index Numbers and Growth Rates, Demand function, Supply function, Production function, Consumption function, Employment Function, Demand for Money function, Supply of Money function, Leontief Input-Output Model.

### References

1. Alexis Leon and Mathews Leon : Introduction to Computers with MS-Office, TMH.
2. Asthana and Braj Bhushan : Statistics for Social Sciences (with SPSS applications), PHI
3. Kerns : Essentials of Microsoft Windows, Word and Excel, PHI.
4. Raja Raman. V. : Fundamentals of Computers, PHI, New Delhi.
5. Sinha, P.K. : Computer Fundamentals, BPB Publications, New Delhi.

  
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## Semester - I

Course Code: <b>MAECO105</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>History of Economic Thought</b>
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**Unit – I:** Origin of Political Economy - Mercantilism and Physiocracy, Adam Smith; David Ricardo, R Malthus, J.S. Mill; Karl Marx.


**Unit – II:** Bentham’s Utilitarianism and Hedonist theory; the Marginalism and Bullionism - commercial, demographic and monetary theories and policies, Construction of Neoclassical Orthodoxy – contributions of English (Marshall, Pigou, Edgeworth), American (Clark and Fisher), Austrian school, Italian (Barone, Pantaleoni, and Pareto) economists.

**Unit – III:** Keynes and Post Keynesian Theories – J M Keynes, M Kalecki, J Schumpeter, Contemporary Macroeconomic theories – Post Keynesian developments.

**Unit – IV:** Contributions of Karl Poliyani, Nicholas Gerogescu-Roegen, Albert Hirshman, Douglass North; Von Hayek, R Coase on Institutional and evolutionary economics; Radical Political Economy - The monetary circuit and structural change theories, Analytical Marxism, Post-Marxism and The feminist challenge.

### Reference

1. Ernesto Screpanti and Stefano Zamagni, “An outline of history of economic thought” (Oxford University Press, 2005).
2. Niall Kishtain, “A Little History of Economics” (Yale University Press, 2017).
3. Roger Backhouse and Keith Tribe, “The History of Economics” (Agenda Publishing, USA., 2017).
4. Schabas, M., & Wennerlind, C. (2007). David Hume's Political Economy. Routledge.

  
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## Semester – II

Course Code: <b>MAECO201</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Micro Economic Analysis - II</b>
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**Unit - I Alternative Theories of the Firm:** Baumol's Model, Williamson, and Marries models, Full Cost pricing models, Bain's Limit pricing, Sylos-Labini, and Modigliani's models.

**Unit - II Theories of Distribution:** Ricardian and Modern Theories of Rent, Marginal Productivity theory distribution, neo-classical theory of interest, and theories of profit; Product Exhaustion theorem, Technical progress and factor shares.

**Unit 3: Equilibrium Analysis and Welfare Economics:** Partial Equilibrium versus General Equilibrium analysis - General Equilibrium: Walrasian model, Features of Market Equilibrium: Existence, Stability (Marshall and Walrasian conditions), Uniqueness, Cob-Web Models. Pigovian welfare economics, Pareto optimum conditions, Social welfare functions, Compensation principles, and Arrow's impossibility theorem.

**Unit - IV Economics of Risk and Uncertainty:** Consumer's choice involving risk (risk takers, risk averse and risk neutral), Neumann – Morgenstern Index, Savage Hypothesis, Gambling, and Insurance.

### References

1. Gibbons, Game Theory for Applied Economists, Princeton University Press, 1992.
2. Gravelle, H and R. Rees, Microeconomics. Pearson Education, 3rd Edition, 2004.
3. Koutsoyiannes. A, Modern Microeconomics. Macmillan Press Limited, New York, 1979.
4. Mas-collel, Whinston and Green, Micro-economic Theory. OUP, 1995.
5. Mukherji, A., Walrasian and Non-Walrasian Equilibria: An Introduction to General Equilibrium Analysis, Clarendon Press, Oxford, 1990.
6. Nicholson, W., Microeconomic Theory: Basic Principles and Extensions, eighth edition, South Western Thomson Learning, 2002.
7. Roy Choudhary, K, Microeconomics, Vol 1, Khosla Publishing House, 2003.
8. Salvatore, Dominick, Micro Economics Theory & Applications, Oxford University Press, Inc. 198 Madison Avenue. New York, 2003.
9. Sen, Anindya, Micro Economic Theory and Applications, Oxford University Press, New Delhi, 1999.
10. Stigler. G, Theory of Price. 4th Edition, Prentice Hall of India, New Delhi, 1996.
11. Varian, H. R., Intermediate Microeconomics: A Modern Approach, third edition, 2010.
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## Semester – II

Course Code: <b>MAECO202</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Monetary Economics</b>
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**Unit – I Demand for Money Theories:** Meaning and its Determinants – Classical, Neo-Classical, Keynes and Post-Keynesian (Patinkin and the Real Balance Effect, Approaches of Baumol and Tobin, Friedman, and the modern quantity theory) Theories of Demand for Money; Crisis in Keynesian economics and the revival of monetarism – Friedman Restatement of quantity theory of money and its critical appraisal.

**Unit II Supply of Money:** Money Supply Meaning and Determinants - Measures of Money Supply, theories of money supply, monetary transmission mechanism and monetary transmission mechanism in India - RBI approach to money supply; High powered money and money multiplier; Control of money supply: Fiscal and Monetary Policies - Analysis and variations in money supply in India.

**Unit III Theories of Inflation and Business Cycles:** Classical, Keynesian and Monetarist approaches to inflation; Structuralist theory of inflation; Philips curve analysis – Short run and long run Philips curve; the Natural rate of unemployment hypothesis; Tobin's modified Philips curve - Introduction to Business Cycles – Theories of Business Cycles - Schumpeter, Samuelson and Hicks – Interaction of multiplier and acceleration models - Control of inflation and business cycles – relative efficacy of monetary and fiscal policies.

**Unit IV New Classical Macroeconomics:** The new classical macroeconomic approach; Policy implications of new classical approach – Expectations: Additive expectations & Rational expectations - Application of rational expectations in macroeconomic analysis - Policy-ineffectiveness proposition (PIP) - Lucas's critique - Supply side economics assumptions and evaluation - Macro stabilization policies and financial sector Reforms in India.

### References

1. Mishkin Frederic (2007), The Economics of Money Banking and Financial Markets, 8<sup>th</sup> ed Addison Wesley Longman Publishers.
2. Bain, Keith & Howells, Peter (2009), Monetary Economics: Policy and Its Theoretical Basis, Palgrave.
3. Friedman, Ben & Hahn F.H. (Eds.), (1990), Handbook of Monetary Economics, Vols. 1, 2, & 3, North Holland Publishers.
4. Blinder Alan (1998), Central Banking in Theory and Practice, The MIT Press  
Langdana Farrokh ((2009), Macroeconomic Policy: Demystifying Monetary and Fiscal Policy, 2<sup>nd</sup> Edition, Springer.
5. Gordon, R. and S.G.Harris (1998), Macroeconomics, Addison Wesley.
6. Culbertson, J.M. (1968), Macroeconomic Theory and Stabilization Policy, McGraw Hill, Kogekosh, Tokyo.
7. Chakravarty, S.C. (1985), Report of the Committee to Review the Working of the Monetary System, Reserve Bank of India, Bombay.
8. Gupta, S.B. (1995), Monetary Planning India, Oxford University Press, New Delhi.

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9. Gurley, J. and E.S. Shaw (1960), Money in a Theory of finance Brookings Institution, Washington.
10. Mckinen, G.E. (1978), Money, the Price Level and Interest Rates, Prentice Hall of India, New Delhi.
11. Reddy, Y.V.(2000), A. Review of monetary and Financial Sector Reforms in India-A Central Banker's Perspective, UBSPD, New Delhi.
12. Fredrman, M. (1956), Studies in the Quantity Theory of Money, the University of Chicago Press, Chicago.
13. Keynes, J.M. (1936), General Theory of Employment, Interest and Money, Macmillan, London.

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## Semester – II

Course Code: MAECO203 Core/ Elective: Core No. of Credits: 4	Course Title <b>Quantitative Methods - II</b>
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**Unit - I Probability:** Concept of probability, Classical and empirical definitions of probability, laws of addition and multiplication, conditional probability, independence, Bayes' theorem, discrete random variable – its concept, mean and variance, Normal distribution – its concept and properties.

**Unit - II Time series:** Time series and analysis, components of time-series data, determination of secular trend by moving average and ordinary least square methods, Uses of seasonal indices, Estimation of linear and compound growth rate using OLS method.

**Unit - III Mathematics – I:** Determinants and their Basic Properties, Solution of Simultaneous equations through Cramer's rule Matrices – Concept and types, Simple operation on matrices, matrix inversion, rank of matrix, concept of vector and its properties, Introduction to input-output analysis.

**Unit - IV Mathematics – II:** Constrained optimization, Lagrangian function, simple economic applications, maximization of utility and maximization of profits, Introduction to linear programming, formulation of linear programming problem – its structure and variables, Nature of feasible, basic, optimal solution, Solution of linear programming through graphic method, Concept of duality.

### References

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Mac Millian Press and ELBS, London.
2. Chiang, A.C. (1988), Fundamental Methods of Mathematical Economics, Mac Graw Hill, New York.
3. Dowling, E.T. (1992), Mathematical Economics 2nd Edition, Mac Graw Hill, New York.
4. Gupta, S.P. (2007), Statistical methods, Sultan Chand and Sons, New Delhi.
5. Monga, G.S. (1972), Mathematics and Statistics for Economists, Vikas publishing house, New Delhi.
6. Nagar, A.L. and Das, R.K. (1983): Basic Statistics 2nd Edition, OUP, Delhi.
7. Speigal, M.R. (1992), Theory and Problems of Statistics, Mc Graw Hill Book Co., London.
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## Semester – II

Course Code: <b>MAECO204</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Data Analysis using SPSS Software</b>
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**Unit – I Introduction to SPSS:** Introduction to SPSS and its versions, Type of Scale of Measurements, choosing appropriate scale and measurement to the data, preparing codebook, Getting to Know SPSS: Starting SPSS, working with data file, SPSS windows, Menus, Dialogue boxes, Preparing the Data file: Creating data file and entering data, defining the variables, modifying data file, import file, Screening and cleaning data, Manipulation of data.


**Unit – II Preliminary Analysis:** Obtaining Descriptive statistics from SPSS and interpretation, Categorical variables, continuous variables, checking normality, outliers checking, choose the right statistics: Overview of different statistical techniques, Decision making process.

**Unit – III Statistical Techniques - I:** Compare means: one sample and two independent sample t test, Paired sample t test, one way Analysis of variance, Two-way ANOVA, Multivariate ANOVA, Analysis of Covariance, Repeated measures.

**Unit – IV Statistical Techniques - II:** Explore relationship among variables - Correlation: Pearson product moment correlation, Spearman rank correlation, Partial correlation, Simple linear regression, Multiple Linear Regression: Assumptions, overall significance, Multicollinearity, Variable selection methods, non-Parametric statistics Independent Chi square Test, Mann-Whitney test, Wilcoxon signed rank test, Kruskal-Wallis's test.

### References

1. Acton, C., Miller, R. L., Fullerton, D., & Maltby, J. (2009). *SPSS for social scientists*. Basingstoke: Palgrave Macmillan.
2. Argyrous, G. (2011). Statistics for research: With a guide to SPSS. *Statistics for Research*, 1-608.
3. Asthana, H. S., & Bhushan, B. (2016). *Statistics for social sciences (with SPSS applications)*. PHI Learning Pvt. Ltd..
4. Hansen, J. (2005). Using SPSS for windows and Macintosh: analyzing and understanding data.
5. Kinnear, P. R., & Gray, C. D. (2011). *IBM SPSS Statistics 18 made simple*. Psychology Press.
6. Kremelberg, D. (2010). *Practical statistics: A quick and easy guide to IBM® SPSS® Statistics, STATA, and other statistical software*. SAGE publications.
7. Morgan, G. A., Leech, N. L., Gloeckner, G. W., & Barrett, K. C. (2004). *SPSS for introductory statistics: Use and interpretation*. Psychology Press.
8. SPSS Manuals.

  
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## Semester – II

Course Code: <b>MAECO205</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Financial Economics</b>
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**Unit - I Financial markets and financial instruments:** The place of financial markets in the economy—real assets and financial assets – a frame work for macroeconomic analysis of financial and nonfinancial flows – the relation between stocks and flows – rate of interest – international transactions – exchange rate. The cost of capital: The cost of debt and preferred stock – capital structure – financial leverage – dividend policy.

**Unit - II The supply of securities:** regulations governing supply of securities – general characteristics – Government bonds - index linked bonds – corporate securities – equities, bonds, convertible securities – mutual fund shares – money market funds – claims on financial institutions.

**Unit – III: Demand for securities:** The time dimension - present value and duration – calculation of yields on zero coupon bonds – term structure of interest rates – the risk dimension– measurement of risk. Securities markets and their efficiency: stock exchanges – the over-the-counter market – operational efficiency and efficient market hypothesis (EMH).

**Unit - IV Determinants of equity Prices and security analysis:** The capital asset pricing models (CAPM), implications for portfolio management – modified CAPM – arbitrage pricing theories (APT). Security analysis and market efficiencies: modern view of security analysis – macroeconomic developments and securities market – performance of securities market – industry growth and firm specific factors – uses and pitfalls of price /earnings ratios.

### References

1. Benninga, S, Financial Modelling. MIT Press, 1997.
2. Bhole, L.M, Financial Institutions and Markets: Structure, Growth, and Innovation. Tata McGraw-Hill Publishing Company Limited, New Delhi, 1991.
3. Black, F, M.C. Jensen and M.A. Scholes, “The Capital Pricing Model: Some Empirical Tests”, in M.C. Jensen (ed.) Studies in the Capital Markets, Praeger, New York.
4. Brahmaiah, B. and P. Subba Rao, Financial Futures and Options, Himalaya Publishing House, Mumbai, 1998.
5. Campbell, J.Y, A.W. Lo and A.C. Mackinlay, the Econometrics of Financial Markets.
6. Chandra, P, Financial Management: Theory and Practice. Galgotia Publishers, 1999.
7. Chi-Fu Huang and R.H. Litzenberger, Foundations for Financial Economics. North Holland, New York, 1988.
8. D.G. Luenberger, Investment Science, Oxford University Press, New York, 1998.
9. Damodharan, Aswath, Corporate Finance Theory and Practice, John Wiley, and Sons, 1997.
10. E. J. Elton and M.J. Gruber, Modern Portfolio Theory and Investment Analysis, Wiley, London.
11. Eicjberger, Jurgen and I R Harper, Financial Economics. Oxford University Press, 1997.

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### Semester – III

Course Code: <b>MAECO301</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Econometrics - I</b>
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**Module I Introduction to Econometrics:** Meaning, Nature and Scope of econometrics, Methodology of Econometrics, Importance of econometrics, Distinction between economic statistics, mathematical economics and econometrics, Statistical inference, Probability distributions, Test statistic, Hypothesis testing.

**Module II Introduction to Regression Analysis:** Two variable linear regression model, Ordinary least square (OLS) methods, Properties of OLS estimates, Assumptions of CLRM, Hypothesis testing, Multiple linear regression model, Estimation of the parameters, Properties of OLS estimates, Hypothesis testing, and Interpretation of the results of two variable and multiple regression.

**Module III: Violation of Classical Assumptions and Problems:** Heteroskedasticity, Autocorrelation, Multicollinearity, and Endogeneity its consequence, detection methods and remedial measures, Idea of instrumental variable (IV) and its estimation, 2-stage least square (2SLS) estimation technique, Properties of IV estimates, Specification analysis, Omission of relevant variables, Inclusion of irrelevant variables, and Test of specification.

**Module IV: Introduction to Dummy Variables and Qualitative Response Models:** Dummy variable model, Quantification of qualitative variables and construction of dummy variable models, Estimation of dummy variable models and their interpretation, Dummy variable trap, Structural break analysis with dummy variables, Qualitative response models: Logit Model, Probit Model, Tobit Model.

#### References

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### Semester – III

Course Code: <b>MAECO302</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Indian Economy</b>
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**Unit - I Introduction:** Indian Economy during British rule, Commercialization of Agriculture, Process of Industrialization. Composition of Foreign Trade, GNP and Occupation, Trends in NI Growth & Structure; Physical Quality Life Index (PQLI), Human Development Index (HDI): GEM Nature and Magnitude of Workforce and Unemployment, Poverty, and Inequality; Introduction to planning, objectives, 11<sup>th</sup>, and 12<sup>th</sup> Plans, and NITI Aayog.


**Unit - II Agriculture Sector and Industrial Sector:** Land Reforms, agriculture finance and marketing; Regional Planning in India; Role of Public Sector in Resource Mobilization; Industrial policies, Public and Private sector performance, Growth and pattern of industrialization, Small Scale sector, Privatization, Disinvestment and Exit Policy.

**Unit - III Fiscal Federalism:** Central state financial relations, finances of Central and state governments - Parallel economy, fiscal sector reforms in India, Monetary and Credit policies, and financial sector reforms in India.

**Unit - IV Economic Reforms:** Changing Role of State; Globalization of Indian Economy, WTO and its Impact, National agenda for Governance. Issues in Export – Import Policy and Foreign Exchange Management Act (FEMA); Exchange Rate Policy, Foreign Capital and MNCs in India; Trade Reforms in India.

#### References

1. Ahluwalia, I. J. and I.M.D. Little (Eds.) 1999), India's Economic Reforms and Development (Essays in honor of Man Mohan Singh), Oxford University Press, New Delhi.
2. Bardhan, P.K. (9th Edition) (1999), the Political Economy of Development in India, Oxford University Press, New Delhi.
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### Semester – III

Course Code: <b>MAECO303</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Research Methodology</b>
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**Unit - I Introduction:** Aim, Objectives, and Scope of Research in Economics, Types of Research- Explanatory, Descriptive and Analytical, Importance of Review of Literature in Research.


**Unit - II Research Problems:** Identification of Research problems, Theoretical frame, Statement of the problem, Review of research, Formation of Objectives and Hypothesis, Defining the concepts in research design, and sample of research proposal.

**Unit - III Sampling and Data Collection:** Sources of data (Primary and secondary data), Need of sampling, uses of sampling, Types of sampling (Probability and non-probability), size of sampling, sampling and non-sampling errors, Data collection methods - Observation methods, Participant, and non-participant methods- Case study, Questionnaire and interview schedule, Projective indirect methods, Focus group study (FGD), Rapid appraisal survey (RAS).

**Unit - IV Interpretation, Report Writing and Ethics:** Meaning of Interpretation, Techniques of interpretation, precaution in interpretation, Significance of interpretation, Steps in Report writing, Types of Reports, Precautions in research report writing, Research ethics – ethics committees, anti-plagiarism guidelines, formal acknowledgments, data privacy, and confidentiality, etc., Academic writing, Citations and references.

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1. A.N. Sadhu and Amarjit Singh, Research Methodology in Social Research, Himalaya Publishing House.
2. C. R. Kothari, Research Methodology, Wiahwa Praksh.
3. C.S.O. Guide to Official Statistics.
4. O.R. Krishna Swamy and Ranganatham, Methodology of Research in Social Sciences, Himalaya Publishing House.
5. Ram Ahuja, Research Methods, Rawat Publications.
6. Wilkinson and Bhandarkar, Methodology and Techniques of Social Sciences, Himalaya Publishing House.

  
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### Semester – III

Course Code: MAECO304/A Core/ Elective: Elective No. of Credits: 4	Course Title <b>Environmental Economics</b>
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**Unit - I Introduction:** Basic concepts, environment and economics, distinction between environmental economics and ecological economics; Distinction between environmental economics and natural resource economics; Externalities, common property resources, public goods, resource degradation and market efficiency; Theories of Environmental Economics: Boulding's Spaceship Earth. Hardin's Tragedy of the Commons, Club of Rome Model, Schumacher's Small is Beautiful, Daly's Steady State Economics. Input-Output Models of the Environment

**Unit - II Theories of Natural Resource Management:** Material Balance and Entropy Law. Hostelling's Theory of Exhaustible Resources. Dasgupta and Heal, Optimal Depletion of Renewable Resources, Carrying Capacity of the Environment. Sustainable Development Theories: Definition and Concept of Sustainable Development, Weak vs. Strong Sustainability Criteria. Theories of Sustainable Development:

**Unit - III Theory and Policy of Pollution Control:** Optimal Level of Pollution. Polluter Pays Principle – Pigouvian Taxes and Subsidies. Pollution Permits. Charge and Standards approach. Coase Theorem. Role of Govt. in Environmental Regulation – Command and Control regime. WTO and Environmental impacts. Global environmental problems, International Environmental Conferences – Global Environmental regulations.

**Unit - IV Measurement of Environmental Degradation:** Environmental Costs and Benefits: Under and Non-user Benefits. Direct and Indirect Valuation Methods - Contingent Valuation Method and Willingness to pay, Hedonic Property Values, Travel Cost, Averted Expenditure and Dose Response Methods. UN System of Integrated Economic and Environmental Accounts; Green National Income and Genuine Savings; Environmental Impact Assessment and Report and Environmental Audit

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9. Sengupta, R. P. Ecology and Economics: An approach to Sustainable Development. New Delhi: Oxford University Press, 2001.

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### Semester – III

Course Code: MAECO304/B Core/ Elective: Elective No. of Credits: 4	Course Title <b>Industrial Economics - I</b>
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**Unit – 1 Theories of Industrialization & Firm:** Meaning and classification of Industries - Use-based, Resource Based and ASI Two- and Three-Digit classification; The Role of Industry in Economic Development; Theories of Industry - Hoffman, Chenery and Gerschenkron.

**Unit – 2 Theories of Growth of Firm:** Theories: Downie, Penrose and Marries and Industrial Location theories: Weber, Sargent Florence, and Losch- factors affecting industrial location.

**Unit - 3 Market Structure and Market Performance:** Concepts & Organization of a firm. Market Structure, Sellers Concentration, Product Differentiation, Entry Conditions; Economics of Scale

**Unit - 4 Market Performances:** Profitability & Innovation. Constraints on Growth. Productivity, Efficiency, and capacity Utilization - concept and measurement-Indian situation. Cost-benefit analysis - NPV and IRR Criteria

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2. Barthwal, R.R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.
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### Semester – III

Course Code: MAECO305/A Core/ Elective: <b>Elective</b> No. of Credits: 4	Course Title <b>Economics of Insurance</b>
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**Unit - I Introduction to Insurance Economics:** Economic Security; Human quest for economic security through time; Exposure to losses; Role and definition of insurance; Risk pooling and risk transfer; Economic and legal perspectives, Social vs. private insurance; Life vs. non-life insurance; Classification of life, health, and general insurance policies.

**Unit - II Fundamentals of life & health insurance:** Functions of life & health insurance; Mathematical basis of life insurance; Plans of life insurance; Legal aspects of life insurance; Provisions of policies; Individual health insurance; Uses and types of evaluation; Principles of underwriting of life & health insurance; Group insurance and superannuation (pension) schemes.

**Unit - III Fundamentals of uncertainty & risk:** Pure risk & speculative risk; Expected utility and decision-making under uncertainty; Expected utility & demand for the insurance; Moral hazard and insurance demand Unit- Concept of risk management; Essentials of risk management; Elements of risk assessment; Risk control & risk financing. Worldwide risk sharing- concept of reinsurance, types of re-insurers; Reinsurance distribution systems, reinsurance markets in developing countries; Selection & classification of risks; Basics of premium construction; valuation and distribution of surplus.

**Unit - IV Definition, types, and importance of general insurance:** Concept of short-term risk; Basics of the following concepts - Common law, equity, proposal/accidence, indemnity, insurable interest, contribution subrogation; representation; utmost good faith, material fact, physical hazard, moral hazard, policy endorsements conditions/warranties; selection and inspection of risks; rating and calculation of premiums; tariffs and non-tariffs; technology development and general insurance.

#### References

1. Black. K. Jr. and H.D. Skipper Jr. (2000), Life & Health Insurance, Prentice Hall, Upper Saddle River, New Jersey.
2. Dionne, G. and S.E. Harrington (eds.) (1997), Foundations of Insurance Economics, Kluwer academic Publishers, Boston.
3. Government of India (1998), Old Age and Income Security (OASIS) Report (Dave Committee Report), New Delhi.
4. Insurance Institute of India, General Insurance Underwriting, (IC-22), Mumbai.
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## Semester – III

Course Code: <b>MAECO305/B</b> Core/ Elective: <b>Elective</b> No. of Credits: <b>4</b>	Course Title <b>Development Economics</b>
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**Unit - I: Theories of Development:** Introduction to Growth and Development, classical theories from Smith to Schumpeter with classical concepts of Development, partial theories of development Critical minimum effort thesis, Lewis model of surplus labour, Fei rains model, Rostow's stages in economic growth, Balanced Growth, Unbalanced growth, Theory of big push, Myrdal on economic growth, Dualism, Neo-Marxist Development theories.

**Unit - II: Theories of Economic Growth:** Harrod-Domar model, Solow model, comparative analysis; role of resources, technology, and institutions; Instability & Convergence debate, Ms. Joan Robinson and Concept of Golden Age and Golden Rule of Accumulation; Endogenous Growth Theories.

**Unit – III Human Resources and Labour Markets:** Population as a challenge-Malthusian notion-simon's Challenge-demographic indicators- Demographic Dividend-New Challenges- Changing Demographic structure; segmented labour markets, unemployment (Harris-Todaro model, labour turnover model, efficiency wage hypothesis) sub-optimal employment, disguised unemployment, informal labour markets.

**Unit - III Neo-Keynesian Models of Growth & Distribution:** Kaldor and L. Pasinetti - Technology and Growth- Hicks, Harrod and Solow- Rosenstein – Rodan and Hirschman, Denison's growth accounting – Contribution of labour, capital, and Technology Neutrality of Technical Change, Embodied and Dis-embodied Technical Change, Growth Accounting, Money and Growth James Tobin and H. G. Johnson.

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1. Agenor, P-R., and P. J. Montiel, Development Macroeconomics. Princeton University Press, 2008.
2. AK Sen, Growth Economics. Penguin, 1970.
3. Alain De Janvry and Elisabeth Sadoulet, Development Economics: Theory and Practice. Routledge, 2016.
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### Semester – III

Course Code: MAECO/ID001 Core/ Elective: ID No. of Credits: 2	Course Title <b>Telangana Economy</b> (for non-economics students)
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#### **Module 1: Telangana Demographic, Income, Poverty and Unemployment**

Economic History of Telangana – Demographic Features of Telangana – Occupational Distribution of Population in Telangana – Sectoral Distribution of Population – Migration and factors affecting it- Social Infrastructural Development: Education and Health; Trends in Gross State Domestic Product and Per Capita Income in Telangana – Sectoral Contribution to Gross State Domestic Product – Inequalities in the Distribution of Income and Wealth – Poverty & Unemployment in Telangana: Trends, Causes & Consequences –in Telangana– Poverty Alleviation & Employment Generation Programmes in Telangana – Other Welfare Programmes in Telangana.

#### **Module 3: Agricultural Sector, Industrial Sector and Services Sectors**

Growth of Agriculture in Telangana Economy – Cropping Pattern- Agrarian Structure and Land Reforms – Sources of Irrigation: Agricultural Credit, crop insurance– Agricultural Marketing; Industry – Growth and Pattern of Industrial Development in Telangana – Industrial Policy of Telangana – Special Economic Zones (SEZ) – Role of MSME in Telangana Economy – Industrial Sickness – Industrial Finance in Telangana. Importance of Tertiary Sector in Telangana – Infrastructural Development in Telangana: Transport, Energy, Communication, and Information Technology – Science & Technology – Banking & Insurance – Tourism Development – Regional Imbalances: Causes, Consequences & Remedial Measures.

#### **References**

1. Census Reports 1961, 1971, 1981, 1991, 2001 and 2011
2. Directorate of Economics, Govt. of Telangana. Methods and Sources of State Domestic Product.
3. District level Poverty estimates, CESS.
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## Semester – IV

Course Code: <b>MAECO401</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Econometrics - II</b>
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**Module I: Simultaneous equation model and identification:** introduction to endogenous, exogenous, and predetermined variable, Problem of simultaneity its consequences and construction of simultaneous equation model (SEM), Problem of identification – under identification, over identification and exact identification, Rank and order conditions of identification, structural equation, Reduced form, and Recursive models.


**Module II Dynamic Econometric Models:** Importance of time in economic analysis, Reasons for inclusion of lags (Psychological, Institutional, and Technical), Auto-regressive and distributed lag models, Koyack Model, Partial adjustment model, Adaptive expectation model, ARDL models.

**Module III Time Series Analysis:** Stationarity, Test of Stationarity, Dickey-Fuller test, ADF, Unit root, co integration, spurious regression, Engel – Granger test, Random walk model (with and without drift), Error correction mechanism, causality test, Granger, and Sim's test.

**Module IV: Introduction to Panel Data Models:** Panel data model, need of panel data model, Pooled data and panel data model, Preconditions of panel data models (Fisher's test, PP test), Fixed and Random effect panel data model, Hausman test of model selection.

### References

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2. Essentials of Econometrics by D.N. Gujarati, 2009.
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## Semester – IV

Course Code: <b>MAECO402</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>International Economics</b>
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**Unit – I Theories of International Trade:** Inter-regional versus international trade - Mercantilist doctrine of balance of trade - Adam Smith and absolute advantage theory of trade - Ricardo and comparative advantage, its limitations -Comparative advantage in Heckscher Ohlin Model - definitions of factor abundance - relationship between factor prices and commodity prices - Factor price equalization theorem - Factor intensity reversal - the empirical evidence on Heckscher Ohlin theory - the Leontief Paradox, the Rybczynski theorem – concept and policy implications of immiserizing growth.

**Unit – II Theories of Gains and Measurement:** Gain from trade - Offer curve - Determination of international equilibrium price - Different concepts of terms of trade, Hypothesis of secular deterioration of terms of trade, The Theory of Interventions; – Factors affecting terms of trade, Economic effects of tariffs and quotas, Nominal, effective and optimum rates of tariffs – their measurement, impact and welfare implications; Recent explanations of the basis of trade in terms of technological lead, domestic market size and product cycle approach – Linder’s hypothesis – Intra-industry trade.

**Unit III – Balance of Payments:** Equilibrium and disequilibrium in the balance of payments; the process of adjustment under different systems; Expenditure – reducing and expenditure-switching policies and direct controls for adjustment; Policies for achieving internal and external equilibrium simultaneously under alternative exchange rate regimes; A critical review of the monetary approach to the theory of balance of payments adjustment; foreign trade multiplier.


**Unit – IV The Theory of Regional Blocs and International Institutions:** Forms of economic cooperation: Static and Dynamic effects of customs union and free trade areas; Rationale and economic progress of SAARC/SAFTA and ASEAN EU regions; Problems and prospects of forming a customs union in the Asian region, Regionalism, Multilateralism; WTO Functions of WTO (TRIPS, TRIMS), UNCTAD, IMF, World Bank and Asian Development Bank; Trade Reforms in India: Recent changes in the direction and composition of trade and their implications; Impact of trade reforms since 1991 on balance of payments and growth; Trade Policies.

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Course Code: <b>MAECO303</b> Core/ Elective: <b>Core</b> No. of Credits: <b>4</b>	Course Title <b>Public Economics</b>
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**Unit - I Introduction to Public Economics:** Issues related to market failure and the government intervention, the role of State in Allocation, Distribution, Regulation and Stabilization, Role of state in economic activities – changing role of the State: Issues in a globalizing world with special emphasis on global public goods, Public and Private sector, Evolution of public finance: Multiple theories of public household, State as an agent of planning and development.

**Unit – II Economic Analysis of Public and Private Goods:** Public and Private Goods – Markets mechanism in public and private goods, public goods: pure and impure public goods, optimal provision of public goods mechanisms – Lindahl and successors, free riding, mobility, The theory of clubs and local public goods, public goods, and the private cost of public goods- Pseudo- market mechanism for Preference Revelation.

**Unit III - Public Choice & Policy:** Public choice – Private and public mechanism of allocating resources – Preference revelation and aggregation of preferences; voting systems. An economic theory of Democracy – Politico-eco-bureaucracy, rent seeking and Direct unproductive profit seeking activities, Impossibility of decentralized provision of public goods- Stabilization policy – Keynesian case for Stabilization policy, and Provision of infrastructural facilities.


**Unit IV Public Revenue, Public Debt, and Public Expenditure:** Meaning of tax, types and classification of taxes and VAT, GST- Incidence, shifting and impact of taxation- Approaches to taxation – Benefit approach, Ability to pay approach and Neutrality approach – Elasticity and buoyancy of taxation; Concept & types of public debt- Burden of public debt- Effects of public debt- Management of public debt- Redemption of public debt- alternative concepts of budget deficit and their implication for public debt- theory of fiscal policy- fiscal policy and economic stability& economic development; Theories of public expenditure, Wagner’s theory, Peacock Wisemans hypothesis – Principle of Maximum Social advantage – Growth and pattern of public expenditure, Effects of public expenditure.

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4. Boadway, R. (1984), Public Sector Economics, 2nd Sub edition, Scott Foresman & Co., London.
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6. Cullis, J. And Jones, P. (1998), Public Finance and Public Choice, 2nd Edition, Oxford University Press, Oxford.

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8. Goode, R (1986), Government Finance in Developing Countries, Tata McGraw Hill, New Delhi.
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20. Rosen, Harvey S. (1995). Public Finance, 4<sup>th</sup> Edition, Richard D. Irwin, Chicago.
21. Shome, P (Ed.) (1985), Tax Policy: Handbook, Tax Division, Fiscal Affairs Department, International Monetary Fund, Washington D.C.
22. Shoup, C S (1970), Public Finance, Aldine, Chicago.
23. Stiglitz, J.E. (1989) Economics of the Public Sector, W.W. Norton & Company, London.
24. Thompson, F. And Green, M. T. (1998), Handbook of Public Finance, Marcel Dekker, New York.
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27. World Bank (1999), Knowledge for Development, World Development Report, the World Bank, Washington DC.

  
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## Semester – IV

Course Code: <b>MAECO404/A</b> Core/ Elective: <b>Elective</b> No. of Credits: <b>4</b>	Course Title <b>Economics of Social Sector</b>
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**Unit - I Introduction to Economics of Education:** Definition and scope of Economics of Education, Education as Consumption, and Investment goods; Human capital: the concept; Components of Human capital; Historical developments in the human capital theory; Human Capital vs. Physical Capital, Human capital, and human development.

**Unit - II: Costs and Benefits of Education:** Cost of Education – Expenditure on Education, Private Costs and Social Costs; Direct and Indirect / opportunity costs; Benefits of Education – Direct and Indirect Benefits; Private and Social Benefits; Problems in the Measurement of Costs and Benefits of education, Cost-Benefit Analysis in Education, Employment, and Income; Contribution of Education to economic growth; Education, Poverty, and Income Distribution.

**Unit - III: Educational Planning and Financing:** Approaches to educational planning, Economics of Educational Planning in Developing Countries with special reference to India. Educational Planning and the problem of educated unemployment and brain drain, Role of financing in the development of education, Financing of education in India, Equity and Efficiency Effects of financing education in India, and Implications of GATS on Indian Education and financing.

**Unit - IV: Economics of Health, Health care and its financing:** Definition and scope of Economics of Health; The concept of health and health care; Health as Consumption and an Investment goods; The role of health in economic development; Health as human capital; Determinants of Health- Poverty, Malnutrition; Economic Dimensions of Health Care – Demand and Supply of Health Care. Resource Mobilization and Utilization of health care in India; Pricing and subsidies to Health sector; Health Care and Resource Constraints; Inequalities in Health and health care in India; Institutional Issues in Health Care Delivery.

### References

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2. Berman, P and M.E.Khan (1989) Paying for India's Health Care. Sage Publications. New Delhi.
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7. World Bank (1983) The World Development Report: Investing in Health, Oxford University Press, New York. Education for Development.

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Semester – IV

Course Code: <b>MAECO404/B</b>	Course Title
Core/ Elective: <b>Elective</b>	<b>Industrial Economics - II</b>
No. of Credits: <b>4</b>	

**Unit - I Indian Industrial Growth & Pattern:** Industrial Pattern under Five Year Plan; Industrial policy 1991: Role of Public and Private Sector, Recent Trends in Industrial growth. Small Scale Enterprises; Problems of SSIs and Sickness, Rural Industrialization and its need in India.


**Unit - II Liberalization Privatization in India-** MNCs and transfer of technology-Industrial economic concentration and remedial measures, issues in industrial proliferation and environmental preservation.

**Unit - III Industrial Finance:** Industrial Finance: Owned, External, and other Components of Funds; Role, Nature, Volume, and types of Institutional Finance – State Level Financial Institutions and Commercial Banks.

**Unit - IV Financial soundness** Assessment of Industrial sector: Financial Statement – Balance Sheet- Assets and Liabilities, Profit & Loss Account, Ratio Analysis.

**References**

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Course Code: <b>MAECO405/A</b> Core/ Elective: <b>Elective</b> No. of Credits: <b>4</b>	Course Title <b>Economics of Infrastructure</b>
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**Module 1: Introduction to Infrastructure Economics:** Infrastructure – Physical & Social Infrastructure; Infrastructure as a public good; the peak load, off - load problem; Present status & progress of infrastructure in Indian economy; Role of infrastructure in economic development; Issues & policies in financing of infrastructure.

**Module 2: Transport system:** Modes, problems, and importance of transport system; pricing principles; Present status and issues in transport infrastructure in Indian economy; Development of transport infrastructure in various plans.

**Module 3: Importance of Energy Economic Development:** Sources of energy: Renewable & Non-Renewable; Energy Conservation; Effects of Energy Shortages; The search for an Optimal Energy Policy in the Indian Context.

**Module 4: Social Infrastructure:** Concept, scope, and relevance of Human Resource Development (HRD); Domain of HRD; Educational infrastructure and Economic Growth; Approaches to Educational Planning- Social Demand, Rate of Return and Manpower Balance Approaches; The case for Universal, Free, Primary Education; The issues & challenges in Indian higher education.

#### References

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2. Goel, M.M. (2011), Economics of Human Resource Development in India, VK Global Publications Pvt. Ltd., New Delhi, ISBN 978- 93-5058-014-1.
3. Goyal, S.K. (Ed.) (1995), Public Enterprises, Indian Institute of Public Administration, New Delhi.
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8. Parikh, K.S. (Ed.) (1997), India Development Report 1997, Oxford, New Delhi.
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11. Subhes C Bhattacharyya, Energy Economics: Concepts, Issues, Markets, and Governance (Springer, 2011).
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## Semester – IV

Course Code: <b>MAECO405/B</b> Core/ Elective: <b>Elective</b> No. of Credits: <b>4</b>	Course Title <b>Agricultural Economics</b>
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**Unit – I Role and structural pattern of agriculture:** Significance of agriculture in economic growth and development; Economic planning for agricultural growth; Changes in agrarian structure; Agro-climatic condition and agricultural pattern; Trends in agricultural diversification, Price factor in agriculture- Price change and supply response in agriculture; Cost and returns to scale; Agricultural subsidies, commodity prices and state intervention; Agricultural industry linkages; and Agricultural terms of trade.

**Unit – II Technological progress and agricultural performance:** Irrigation development (water management) and agricultural productivity and stability; Bio-physical technology and productivity growth; Agro-mechanical technology and productivity gain; Technological change and distribution of gains; post-harvest technology and remote sensing in agriculture; Issues in agricultural competitiveness.

**Unit – III Institutions and agriculture:** Land reforms; Commercial banks and Co-operative credit; Agricultural research and extension; Government investment in agriculture and rural infrastructure; Economic reforms (factor inputs) and agriculture performance; Trade liberalization and its impact on agriculture; Panchayati Raj and other rural institutions in agriculture and rural development; Changing institutional climate for livestock and fisheries.

**Unit – IV Market for agricultural commodities:** Changes in domestic demand and consumption; Issues with respect to marketed surplus, marketing channels, price spread, and value-chain; Exports of agricultural commodities; Role of livestock and fisheries to the national economy; Trends in livestock population, productivity and output and its determinants, technology, and resource utilization; Technological changes in marine and island fisheries and the tragedy of commons.

### Reference

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2. Basu, K. (1997) Analytical Development Economics: The Less Developed Economy Revisited, MIT Press, Massachusetts.
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Semester – IV

Course Code: MAECOPW001 Core/ Elective: <b>Compulsory</b> No. of Credits: <b>4</b>	Course Title <b>Project Work</b>
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**Guidelines for Project Work:**

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