



# **COURSES SCHEME**

**&**

# **SYLLABUS**

**FOR**

**M.A.**

**ECONOMICS**

**2015**

**COURSE SCHEME & SYLLABUS FOR M.A. (ECONOMICS)****SEMESTER – I**

<b>SR. NO.</b>	<b>COURSE NO.</b>	<b>TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CR</b>
1	PME101	MICROECONOMICS-I	3	0	0	3.0
2	PME102	MACROECONOMICS-I	3	0	0	3.0
3	PME103	ECONOMICS OF GROWTH AND DEVELOPMENT	3	0	0	3.0
4	PCL105	MATHEMATICAL AND STATISTICAL METHODS	3	0	2	4.0
5	PME104	ECONOMIC ENVIRONMENT, ETHICS AND CORPORATE SOCIAL RESPONSIBILITY	3	0	0	3.0
6	PME191	PROJECT	0	0	0	2.0
<b>TOTAL</b>			<b>15</b>	<b>0</b>	<b>2</b>	<b>18.0</b>

**SEMESTER – II**

<b>SR. NO.</b>	<b>COURSE NO.</b>	<b>TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CR</b>
1	PME202	MICROECONOMICS-II	3	0	0	3.0
2	PME203	MACROECONOMICS-II	3	0	0	3.0
3	PME204	MONEY, BANKING AND FINANCIAL MARKETS	3	0	0	3.0
4	PME205	INTERNATIONAL TRADE	3	0	0	3.0
5	PME206	ECONOMETRICS	3	0	2	4.0
6	PME291	PROJECT	0	0	0	2.0
<b>TOTAL</b>			<b>15</b>	<b>0</b>	<b>2</b>	<b>18.0</b>

**SEMESTER – III**

<b>SR. NO.</b>	<b>COURSE NO.</b>	<b>TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CR</b>
1	PME301	POLITICAL ECONOMY OF DEVELOPMENT	3	0	0	3.0
2	PME302	INDIAN ECONOMY	3	0	0	3.0
3	PME303	INDUSTRIAL ORGANISATION	3	0	0	3.0
4	PME391	PROJECT	0	0	0	2.0
5		ELECTIVE – I	3	0	0	3.0
6		ELECTIVE – II	3	0	0	3.0
<b>TOTAL</b>			<b>15</b>	<b>0</b>	<b>0</b>	<b>17.0</b>

**\* ELECTIVES FOR MONEY, BANKING AND FINANCIAL MARKETS  
SPECIALIZATION:**

<b>SR. NO.</b>	<b>COURSE NO.</b>	<b>TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CR</b>
1	PME304	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	3	0	0	3.0
2	PME305	BEHAVIORAL FINANCE	3	0	0	3.0
3	PME306	FINANCIAL DERIVATIVES AND RISK MANAGEMENT	3	0	0	3.0

**\*ELECTIVES FOR INTERNATIONAL BUSINESS SPECIALIZATION**

<b>SR. NO.</b>	<b>COURSE NO.</b>	<b>TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CR</b>
1	PME307	E-BUSINESS	3	0	0	3.0
2	PME308	CORPORATE GOVERNANCE	3	0	0	3.0
3	PME309	MULTINATIONAL ENTERPRISES AND INDUSTRIAL POLICY	3	0	0	3.0

**SEMESTER – IV**

**MONEY, BANKING AND FINANCIAL MARKETS SPECIALIZATION**

<b>SR. NO.</b>	<b>COURSE NO.</b>	<b>TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CR</b>
1	PME401	PUBLIC ECONOMICS	3	0	0	3.0
2	PME402	INTERNATIONAL FINANCIAL MODELLING	3	0	0	3.0
3	PME491	DISSERTATION	0	0	0	6.0
<b>TOTAL</b>			<b>6</b>	<b>0</b>	<b>0</b>	<b>12.0</b>

**INTERNATIONAL BUSINESS SPECIALIZATION**

<b>SR. NO.</b>	<b>COURSE NO.</b>	<b>TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CR</b>
1	PME403	ECONOMICS OF EDUCATION AND HEALTH	3	0	0	3.0
2	PME404	ENERGY AND ENVIRONMENTAL ECONOMICS	3	0	0	3.0
3	PME491	DISSERTATION	0	0	0	6.0
<b>TOTAL</b>			<b>6</b>	<b>0</b>	<b>0</b>	<b>12.0</b>

**Total Credits – 65**

## PME101: MICROECONOMICS-I

L	T	P	Cr.
3	0	0	3.0

**Course Objectives:** This course has been designed with the objective to help a student to understand the basic principles of microeconomics, the Marginalist approach and the justification of mathematical models to describe consumer and firm behavior. Become familiar with basic concepts of microeconomics and acquire analytical skills to analyze problems of economic policy. Improve student's analytical skills and ability to solve problems, which will be useful in several other areas of economics.

**Introduction:** The Basic Micro- Economic Problems of Scarcity and Choice, Market and Price Mechanism, Disturbances to Equilibrium, Floor Price, Ceiling Price.

**Consumer Theory:** The Concept of and Measurement of Utility: Cardinal and Ordinal, Theory of Consumer Choice: Marginal Utility Theory, Indifference Curve Approach, Income and Price Expansion Paths, Demand Curve; Income and Substitution Effects: Slutsky and Hicksian approach; Theory of Revealed Preference, Index Numbers; Concept of Elasticity: Price, Income and Cross Elasticity; Concept of Consumers' Surplus.

**Production Theory:** Production Function – One Input, Two Inputs: Isoquant; Law of Variable Proportions, Returns to the Variable Factor, Returns to Scale, Cobb- Douglas Production Function; Producer's Equilibrium with one and two inputs; Cost Curves, Total, Average and Marginal Cost, Short Run and Long Run Costs, Economist concept of cost; Concept of Total Revenue, Average Revenue and Marginal Revenue; Derivation of Supply curve, Firm and Industry, Short Run and Long Run Concept of Producers' Surplus.

**Theory of Costs:** Short run and Long run Cost: Traditional and modern theories of costs; Derivation of cost functions from production functions. Isoquant, Isocost, Producers equilibrium, Break-even analysis, Estimation of cost function.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, students will be able to:

1. Possess an understanding of the basic principles of microeconomics, the Marginalist approach and the justification of mathematical models to describe consumer and firm behavior.
2. Understand the basic concepts of microeconomics skills to analyze problems of economic policy.
3. Improve analytical skills and ability to solve problems, which will be useful in several other areas of economics.

### Recommended Books:

1. Hirschleifer J. and A. Glazer, *Price Theory and Applications*, Prentice Hall of India, New Delhi (1997).
2. Stigler, G. *Theory of Price*, Prentice Hall of India, New Delhi (1996).
3. Arthur O Sullivan *Micro Economics principles Applications and tools* Pearson Publication. Delhi.
4. Rubinfeld Pindyck. *Microeconomic Theory and application*, Pearson Education New Delhi (2012).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME102: MACROECONOMICS-I

L	T	P	Cr.
3	0	0	3.0

**Course Objectives:** This course has been designed with the objective to help a student understand the forces determining macroeconomic variables such as inflation, unemployment, interest rates, and the exchange rate; Be familiar with macroeconomic terminology, such as the multiplier, monetarism, the natural level of unemployment, and fiscal policy Be capable of interpreting and evaluating media reports on the macro-economy.

**National Income and Social Accounting:** Social accounting: concept and importance; measures of economic welfare; GNP and welfare measures; main features and types of social accounts; national income and product accounts, input-output accounting, flow of funds accounts; Balance of payment accounting and national balance sheets.

**Theory of Income and Output:** Classical Theory, Keynesian Theory, Income-consumption relationship; life cycle-permanent income theory of consumption and saving; consumption under uncertainty: the modern approach; Consumption and stock markets; Barrow-Ricardo problem; Investment demand: Neoclassical and Keynesian versions (MEC approach); acceleration principle; Keynesian dynamic multiplier ISLM Model.

**Economic Fluctuations and Stabilization:** Multiplier-accelerator interaction; theories of trade cycle, Keynes, Hicks, Samuelson and Kaldor; Control of business cycles; relative efficacy of monetary and fiscal policies.

**Theory of Output, Inflation and Unemployment:** Friedman's theory of natural rate of unemployment and output. Short- run and long-run Philips curve; Monetarist and Keynesian views. Stabilization policies for output and employment: Keynesian view; Inflation-unemployment trade-off; sticky wage model, imperfect information model, sticky price model.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, students will be able to:

1. Develop an understanding of national income accounting, inflation and interest rates.
2. Possess deeper understanding of the concepts like multiplier, monetarism, the natural level of unemployment, and fiscal policy.
3. Interpret and evaluate media reports on the macro-economy.

### Recommended Books:

1. Shapiro, E. *Macro Economic Analysis*, Galgotia Publications. New Delhi (2005).
2. Dornbusch, Fischer, Stratz *Macroeconomics*, Tata McGraw-Hill, New Delhi (2004).
3. N. Gregory Mankiw, *Principles of Macroeconomics* (2014).
4. Campbell McConnell and Stanley Brue, *Macroeconomics: Principles, Problems, & Policies* (2014).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME103: ECONOMICS OF GROWTH AND DEVELOPMENT

L	T	P	Cr.
3	0	0	3.0

**Course Objectives:** This course has been designed with the objective to help a student to understand the features of developing economies. Be familiar with models of development and development strategies. Understand decision making regarding choice of technology and choice of scale and various criteria for investment.

**Introduction:** Nature, Questions and Values of Development, Meanings of development – economic growth, redistribution from growth and capabilities approach to development, Objectives of development.

**Measures of Development:** Purchasing power parity and Per capita income as an index of development, difference between growth and development, human development; Characteristics of a developing economy.

**Theories of Transition:** Clark and Fisher on change in sectoral share; Rostow's stages of growth; Kuznets's characteristics of Growth; Industrialisation, Growth and Kaldor's growth laws; The neo-classical approach of market and growth.

**Capital:** Role of capital accumulation in economic development; Significance of capital-output ratio, role of technology and technological progress, learning, human capital.

**Development Strategies:** Complementarity and Coordination; Poverty Trap of Nurkse and Big Push theory of Rosenstein-Rodan; Linkages-backward and forward; linkages, policy and big push; Choice of technology and choice of scale (large vs. small) and criteria for investment; Gains from Trade - static, dynamic and vent for surplus, tariffs versus subsidies; Prebisch doctrine, Prebisch-Singer thesis and Terms of Trade.

**Development in a Labour Surplus Economy:** The concept of economic dualism; Lewis' model of economic development with unlimited supply of labour, Disguised Unemployment: Types and Measurement; The Informal Sector; Rural-urban migration of labour-Harris-Todaro model.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, students will be able to:

1. Understand the different stages of development.
2. Learn various models of development and critically analyze growth and development strategies.
3. Learn about choices regarding technology and scale and investment criteria.

### Recommended Books:

1. A.P. Thirlwall., *Economics of Development: Theory and Evidence* (2011).
2. Todaro, M.P. and Smith, S.C. *Economic Development: The Pearson Series in Economics* (2011).
3. Meier, G. M. and Baldwin, R. E., *Economic Development* (1963).



**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PCL105: MATHEMATICAL AND STATISTICAL METHODS

L	T	P	Cr.
3	0	2	4.0

**Course Objectives:** This course has been designed with the objective to help a student to know the principal results of single and several variable calculus, including calculation of derivatives, partial derivatives of both explicit and implicit functions and solving optimization problems. Use statistical methods for research analysis and interpretation. Identify, critically evaluate and synthesise the substantive theories for creating models for understanding economic behavior.

**Calculus:** Concept of differentiation; Differentiation of function of one variable including logarithmic and exponential functions; Successive and partial derivatives; Euler's theorem; Elementary Concepts of integration: Integration of function of one variable.

**Matrices:** Definition and types; Elementary operations; Rank of a matrix; Matrix inverse by adjoint and Gauss- reduction method; Concept of determinants and its properties; Solution of simultaneous equations by Cramer's rule and matrix inverse methods; Application of simultaneous equations in Economics.

**Linear Programming:** Problem formulation and solution of Linear Programming by graphical method.

**Statistics:** Data types, scale, sources, sample and population.

**Univariate Analysis:** Measures of central tendency, absolute and relative measures of dispersion, moments, Measures of skewness and kurtosis.

Multivariate analysis: Correlation: simple, multiple and partial; linear and non-linear.

**Causation and Correlation:** Use of raw and grouped data; Probable errors; Rank Correlation.

**Regression Analysis:** Principle of least squares and regression lines. Regression equations and estimation, derivation of normal equation; Sums of squares; Standard error of estimates; Regressions with time series data; Estimation of growth rate.

**Laboratory Work:** Problems on matrices and linear programming will be solved by making use of Mat lab. Statistical analysis of univariate, correlation and regression will be covered through Microsoft Excel and SPSS and AMOS Software.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, students will be able to:

1. Use derivatives and integration concepts useful for economic analysis.
2. Use statistical concepts useful for economic analysis.
3. Identify, critically evaluate and synthesise the substantive theories and create models for understanding economic behaviour.

**Recommended Books:**

1. Rosser, Mike *Basic Mathematics for Economists* (2003).
2. Renshaw, Geoff *Maths for Economics* (2008).
3. J. Wooldridge, *Introductory Econometrics: A Modern Approach*, Thompson Learning (1971).
4. A. Koutsoyiannis *Theory of Econometrics*, Palgrave (1971).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	25
2	EST	40
3	Sessionals (May include Assignments/Projects/Tutorials/Quizzes/Lab Evaluations)	35

## **PME104: ECONOMIC ENVIRONMENT, ETHICS AND CORPORATE SOCIAL RESPONSIBILITY**

**L T P Cr.**  
**3 0 0 3.0**

**Course Objectives:** This course has been designed with the objective to help a student to understand the key elements of global business, political, economic, social and legal aspects, market research, market entry, financing. Understand the challenges in developing and securing adherence to a common set of legal and regulatory standards. Understand the need and significance of ethics and CSR for business organizations. Analyze the impact of CSR implementation on corporate culture, particularly its relation to social issues.

**Analysis of Economic Environment:** Economic, social, cultural, Political. Legal and technological environment; Rise of new economics: Brazil, Russia, India, China and South Africa (BRICS) and East Asian countries.

**Bilateral and Multilateral Trade Laws:** General agreements on trade and tariffs (GATT), World trade organization (WTO), Ministerial conferences, trade related intellectual property rights, trade related investment measures, general agreement on trade in services. Trading agreements: Free trading agreements and Preferential trading agreements Trading blocks: EU, SAARC, ASEAN, NAFTA.

**Economics of Globalization and its Impact on Indian Industry:** Globalization and internal reform process, Exim policy, India's competitive advantage in industries like, Information technology, textiles, gems and jewellery etc, Indian multinationals, US and European Recession and its impact on India

**Organizational Structures and Systems:** Code of ethics, ethical structures, ethics training, whistle-blowing: types, criteria for whistle. Managerial Ethics: Introduction, ethical dilemmas, criteria for ethical decision-making, utilitarian approach, individualism approach, moral-rights approach, justice approach, whistle-blowing.

**Social Responsibility and Ethics:** Operating in a pluralistic society, social responsibility of managers, ethics in managing, environmental ethics, international ethics.

**Introduction to Corporate Social Responsibility:** Interplay between large corporations and governments, intergovernmental institutions, investors and non-governmental organizations (NGOs), Carroll's model of CSR.

**CSR and Sustainability:** Drivers of corporate responsibility, the current situation, defining the issues for corporate social initiatives, key challenges.

### **Course Learning Outcomes (CLO):**

Upon the successful completion of this course, students will be able to:

1. Identify the key elements of economic, social, cultural, Political, legal and technological environment.
2. Evaluate ethics programs and list their benefits.
3. Demonstrate an appreciation for the role of the owner stakeholder and the economic and ethical responsibilities involved.

4. Demonstrate an appreciation for the various foundations of social responsibility theories, identify the drivers of corporate responsibility and key challenges.

**Recommended Books:**

1. Morrison, Jannet, *The Global Business Environment: Meeting the Challenges*, Palgrave Macmillan (2011).
2. Luthans, F. and Jonathan, D. *International Management: Culture, Strategy, and Behavior*, New Delhi: McGraw-Hill (2010).
3. Keegan, W. J. and Mark, G. *Global Marketing New Delhi: Prentice Hall of India Pvt. Ltd.* (2009).
4. Saleem, S. *Business Environment*. New Delhi: Pearson Education (2010).
5. Cherunilam, F. *International Business*. New Delhi: Prentice Hall of India Pvt. Ltd. (2010).
6. Philip Kotler and Nancy Lee, *Corporate Social Responsibility*, John Wiley and Sons Inc. (2005).
7. Daniel Esty and Andrew Winston, *Green to Gold*, John Wiley & Sons Inc. (2006).
8. Harold Koontz and Heinz Weihrich *Essentials of Management*, Tata McGraw-Hill. (1998).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME202: MICROECONOMICS-II

**L T P Cr.**  
**3 0 0 3.0**

**Course Objectives:** The objective of the course is to help a student to distinguish between perfect competition and imperfect competition. Learn about the welfare loss in non-competitive markets. Understand game theory and various strategic decision making. Understand pricing of Factors of Production.

**Perfect Competition:** short-run and long run equilibrium

**Monopoly:** Types, Features; Price Discrimination under Monopoly, different types.

**Monopolistic Competition:** Price and Non-price competition, Equilibrium; Product Differentiation, Selling Costs and Excess Capacity.

**Oligopoly:** Basic market structure, Non-collusive oligopoly, Cournot- Bertrand Solution. Collusive Oligopoly, Cartels, Price and Output Determination, Price Leadership.

**Game Theory and Strategic Decisions:** Game Theory, Basic Concepts, Dominant Strategy Equilibrium, Nash Equilibrium, Repeated and Sequential Games.

**Factor Markets:** Theories of Distribution, Theories of rent, wages, Interest and Profits

### **Course Learning Outcomes (CLO):**

Upon the successful completion of this course, students will be able to:

1. Understand various types of markets and their key characteristics.
2. Learn efficiency aspect and the welfare loss in non-competitive markets.
3. Understand game theory and apply it for various strategic decision-making.
4. Understand factor pricing through theories of distribution.

### **Recommended Books:**

1. *Hirschleifer J and A. Glazer: Price Theory and Applications, Prentice Hall of India, New Delhi (1997).*
2. *Stigler, G: Theory of Price, Prentice Hall of India, New Delhi (1996).*
3. *Robert Pindyck, Microeconomics, Pearson Publication New Delhi (2009).*
4. *Modern Micro-economics Macmillan Press, London (1979).*
5. *Micro-economic Theory a Mathematical Approach, McGraw Hill, New Delhi (1980).*

### **Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME203: MACROECONOMICS II

L T P Cr.  
3 0 0 3.0

**Course Objectives:** The course objective of the course is to help in understanding policies for growth and stabilization. To make students understand open economy macroeconomic policies. To make students understand inflation and its control using monetary policy.

**Marco-economic Policy for Stabilization and Growth:** Theory of economic policy, policy objectives and conflicts; fixed vs. target approach, monetary policy, fiscal policy and crowding out, policy mix.

**Open Economy Macro-Economics:** Balance of payment and exchange rate, capital mobility, Mundell- Fleming model-perfect capital mobility under fixed and flexible exchange rate; assets markets, expectations and exchange rates, monetary approach to balance of payments.

**Inflation and Monetary Policy:** Inflation, money growth and interest rates; dynamic inconsistency of low-inflation monetary policy, signora and inflation monetary policy, signora and inflation; budget deficit and fiscal policy, Recording equilibrium debate, tax smoothing under certainty and uncertainty; cost of defect and debt crisis.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, students will be able to:

1. Understand the formulation policies for growth and stabilization.
2. Acquire knowledge of open economy macroeconomic policies.
3. Know about inflation, its measurement, causes and implications on economy to understand the role of monetary policy to control inflation.

### Recommended Books:

1. *Dornbusch, R, S. Fischer & R. Startz Macro-economics. Tata Mc Grew-Hill, New Delhi (2000).*
2. *Shapiro, E. Macro Economic Analysis. Galgotia Publications. New Delhi (2005).*
3. *Dornbusch, Fischer, Stratz. Macroeconomics, Tata McGraw-Hill. New Delhi (2004).*
4. *N. Gregory Mankiw, Principles of Macroeconomics, (2014).*
5. *Campbell McConnell and Stanley Brue, Macroeconomics: Principles, Problems, & Policies (2014).*

### Evaluation Scheme:

Sr. No.	Evaluation Elements	Weightage (%)
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME204: MONEY, BANKING AND FINANCIAL MARKETS

L T P Cr

3 0 0 3.0

**Course Objectives:** The objective of the course is to help a student develop a basic understanding of the financial system: how it operates and why it plays a central role in the economy. Acquaint students with techniques relating to interest rate calculations, exchange rate determinations, and appropriate levels of the Money Supply. Have an increased appreciation of how the economy works. Understand the working of International Financial Institutions.

**Definition and Basic Concepts of Money:** Different approaches to the definition of money, Types, role and functions of money inside money and outside money, Measures of Money supply. Traditional quantity theory of money, Fisher's equation of exchange, Cambridge cash balance approach, Keynes reformulation of quantity theory of money, Modern quantity theory, Friedman's approach.

**Markets:** The functions of financial markets, the structure of financial markets: Debt and equity markets, primary and secondary markets, money and capital markets, Financial market instruments: Capital market instruments, Money market instruments, function and types of financial intermediaries, regulation of the financial system

**The Theories of Demand and Supply of Money:** Theories of demand for money, Classical Keynesian and Monetarist. Theories of money supply, The H' Theory of money Supply,

**Money Multiplier Process and its Determinants:** Commercial banks and the money multiplier, Factors affecting 'H' RBI analysis of money supply, Control of the money stock,

**Money Stock and Interest Rates, Monetary Equilibrium:** Money in equilibrium and Non-equilibrium states, Neutrality of money.

**Principles of Monetary Policy:** Monetary Policy: Its meaning, objectives, frame work, targets and indicators of monetary policy, Transmission mechanism of monetary. Role of monetary policy in developing countries, Monetary and credit planning, Monetarist and Keynesian views on monetary policy.

**Indian Money Market and International Financial Institutions:** India and NBARD. Reserve Bank of India (RBI), Its working, functions, performance and role in the economic development of India, RBI's monetary policy, International Financial institutions IMF, IBRD (World Bank), Asian Development Bank (ADB). International Development Association (IDA).

**Foreign Exchange Market:** Exchange rates in the long-term, exchange rates in the short-term, explaining changes in exchange rates



**Course Learning Outcomes (CLO):**

Upon the successful completion of this course, students will be able to:

1. Familiarize with different approaches to define money, types, role and function of money and develop an understanding about financial markets and their structure.
2. Master techniques relating to interest rate calculations, exchange rate determinations, and appropriate levels of the Money Supply.
3. Identify Money Multiplier Process and its Determinants.
4. Develop a deep understanding about Indian Money Market and International Financial Institutions.

**Recommended Books:**

1. *Frederich, S. Mishkin: The Economics of Money, Banking and Financial Markets, Prentice Hall (2012).*
2. *Lavoie, Marc and Godley, Wynne Monetary Economics: An Integrated Approach to Credit, Money, Income, Production and Wealth, Palgrave Macmillan (2012).*
3. *Gupta, S. B. Monetary Economics: Institutions, Theory & Policy. S Chand & Co Ltd. (2010).*
4. *Cecchetti, Stephen and Schoenholtz, Kermit: Money, Banking and Financial Market, McGraw-Hill/Irwin (2014).*

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizzes/Lab Evaluations)	20

## PME205: INTERNATIONAL TRADE

L T P Cr

3 0 0 3.0

**Course Objectives:** The course has been designed with the objective to provide an understanding of the broad principles of international trade. To help understand the theories to facilitate the free flow of trade in goods, services and capital. To examine the impact of the trade policies followed at the national and international levels as also their welfare implications for the economies.

**Theories of International Trade:** Introduction to International Trade, Theories of Absolute Advantage, Comparative Advantage and Opportunity Costs; Heckscher Ohlin Theory of Trade, Factor Price Equalization; Empirical Testing of Heckscher Ohlin Theory; New Approaches to Trade Theory: The Product Cycle theory; Technology Gap Theory.

**Imperfect Competition and International Trade:** Economies of Scale, Intra-industry Trade; Terms of Trade: Concepts and Measurement of Terms of Trade; Theory of Tariff and Non-tariff Barriers: Partial equilibrium Analysis of Tariff; Effects of Tariff on Consumer's and Producer's Surplus; Various Non-tariff Barriers; Regionalism: Various Forms of Economic Integration; The Theory of Customs Union.

**The Balance of Payments and Adjustments:** Concepts and Components of Balance of Payments; Causes of Disequilibrium in the Balance of Payments; The Process of Adjustment Under: Gold Standard - Specie Flow Mechanism; Fixed Exchange Rate - Devaluation, Marshal Lerner's Conditions, Keynesian Absorption Approach, J-Curve Effect; Flexible Exchange Rate - Mundell Fleming model; Foreign Trade Multiplier.

**Foreign Exchange Markets:** Euro Currency Markets, International Bond Markets; Contemporary Exchange Rate Systems; Foreign Exchange Transaction Forms; Foreign Exchange Arbitrage and Market Hedging.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, students will be able to:

1. Develop a deeper understanding of the different theories of international trade.
2. Understand the economies of scale, tariff and non tariff barriers in international trade.
3. Possess knowledge of the concepts and components of balance of payments and process of adjustment and develop the understanding about foreign exchange markets and their operations.

### Recommended Books:

1. Salvatore, Dominick, *International Economics: Trade and Finance*, John Wiley & Sons (2013).
2. Bo Sodersten, Geoffrey Reed, *International Economics*, Palgrave Macmillan (1994).
3. Krugman, Paul R. and Obstfeld, Maurice: *International Trade: Theory and Policy*, Prentice Hall (2014).
4. Feenstra, Robert C. and Taylor, Alan, M., *International Trade*, Worth Publishers (2014).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME206: ECONOMETRICS

L T P Cr

3 0 2 4.0

**Course Objectives:** The course has been designed with the objective to understand econometrics for quantitative analysis in economics. To make students convergent with data analysis in MS Excel. To use econometric modeling for analysis and decision making. To make student conversant with econometrics as a forecasting tool.

**Introduction to Econometrics:** Definition, Nature of Econometric Analysis, Methodology of Econometrics, Role of Computer in Econometric analysis.

**Two-Variable Regression Model:** Two Variable Regression Analysis: Some Basic Ideas, the method of Ordinary Least Squares, Assumptions of the Classical Linear Regression Model, Standard Error of Least Squares Estimates, Gauss-Markov Theorem, The Coefficient of Determination, Confidence Interval, Hypothesis Testing, Forecasting.

**Extensions of Two-Variable Regression:** Regression through Origin, Lin-log, Double –log model, Log-lin model, Trend Model.

**Multiple Regression Model:** Model Estimation, Adjusted R Square, Confidence Interval, Hypothesis Testing, Overall Fit by F-test, Forecasting.

**Dummy Regression Model:** ANOVA Model, ANCOVA Model, Seasonal Forecasting.

**Heteroscedasticity:** Detection, problems, remedial measures.

**Multicollinearity:** Detection, problems, remedial measures.

**Autocorrelation:** Detection, problems, remedial measures.

**Laboratory Work:** Statistical analysis of ANOVA, ANCOVA, Regression will be covered through Microsoft Excel and SPSS and AMOS Software.

### Course Learning Outcomes (CLO):

The student after completion of this course will be able to:

1. To understand econometrics for quantitative analysis in economics.
2. Learn econometric modeling for analysis and decision making and use econometrics for data analysis in MS Excel.
3. Understand estimation issues and their implications including, biased selection, non-linearity, heteroskedasticity and multicollinearity.
4. Use econometrics for model building and as a forecasting tool.

### Recommended Books:

1. *Basic Econometric*, 4<sup>th</sup> Edition, Damodar Gujarati, TATA McGRAW-HILL, New Delhi (2004).
2. *An Introduction to Econometrics*, G. S. Maddala, John Wiley and Sons Ltd, (2001).
3. *Introductory Econometrics: A Modern Approach*, J. Wooldridge, Thompson Learning.
4. *Theory of Econometrics*, A. Koutsoyiannis, Palgrave (1971).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	25
2	EST	40
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	35

## PME301: POLITICAL ECONOMY OF DEVELOPMENT

L T P Cr

3 0 0 3.0

**Course Objectives:** The objective of this course is to help a student to understand the post-structuralist Marxian definition of capitalism; Learn how to distinguish capitalist class processes (the basis for capitalism) from non-capitalist (slave, feudal, ancient, communal) class processes; and, perhaps most crucially, understand how the material covered in the course relates to life.

**Introduction:** Dialectical and historical materialism; Mode of production and social super-structure; Economic Laws; Concept of private property, classes and the state; Historical Social Formations: Primitive Communism, Slavery; Feudalism, Capitalism and Socialism/Communism (Communist Formation).

**Critique of Theories of Development:** Joseph A. Schumpeter; W.W. Rostow; and T.W. Schultz

**Marxian Political Economy:** Basic Analysis of capitalism: the context, main concepts; capitalism and commodity production, commodity fetishism, Surplus value, Source (Labor) and appropriation of surplus value, class struggle and the Proletariat's position, Relative deterioration of the position of the working class, Reserve army of labour, Crisis contradictions of capitalist development.

**Nature and Process of Planning and Market Mechanism:** Evolution of economic planning and forms of planning. Debates on planning, Aims of planning. The soviet experience, Models of planning, Process of planning and market mechanism- The role of planning.

**Nature, Process and Methods of Accumulation:** Primitive socialist and capitalist methods. Accumulation under capitalism and socialism.

**Nature and Process of Reproduction** (simple, expanded and contract under) capitalism and socialism.

Marxian analysis of global economic crisis.

### **Course Learning Outcomes (CLO):**

Upon the successful completion of this course, students will be able to:

1. To possess a deep understanding of the post-structuralist Marxian concept of capitalism.
2. Learning to distinguish capitalist class processes (the basis for capitalism) from non-capitalist (slave, feudal, ancient, communal) class processes; and, perhaps most crucially.
3. Relate the material covered in the course to life.

### **Recommended Books:**

1. Maurice Cornforth, Dialectical Materialism, National Book Agency Pvt. (1971).
2. John Eaton, Political Economy, International Publishers, New York. (1973).
3. W.W. Rostow, The Stages of Economic Growth, Cambridge University Press. (1971).
4. Paul M. Sweezy, The Theory of Capitalist Development Principles of Marxian Political Economy, Monthly review press (1968).
5. Karl Marx, *Das Kapital*, CreateSpace Independent Publishing Platform. (2014).

6. *Samuelson, Paul A. and Janice Murray, The Collected Scientific Papers of Paul Samuelson, MIT Press (2011).*
7. Medema, Steven G. (Editor) and Waterman, Anthony M. C. (Editor) *Paul Samuelson on the History of Economic Analysis: Selected Essays (Historical Perspectives on Modern Economics)*, Cambridge University Press (2014).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME302: INDIAN ECONOMY

L	T	P	Cr
3	0	0	3.0

**Course Objectives:** The objective of this course is to help a student to understand Indian economic problems in the light of relevant economic theories and in a comparative perspective. Enable the students to appreciate the evolution of Indian economy, its institutional framework, planning policy. Understand the relevance of international trade.

**Introduction to Indian Economy:** Features of Indian Economy and characteristics of economic underdevelopment of India.

**Planning:** Evolution of India's Development Goal and Strategy, The background and Structure of Indian Planning., India's five year plans.

**New Economic Policy** – liberalisation, market and state (introduction)

**Industrial Development:** Evolution, Trade and Policy, Industrial Policies – Industrial licensing system.

**Special Economic Zones (SEZ):** Introduction, types of economic zones, Meaning and Nature of SEZs, their mechanism, case studies on opposition to SEZs.

**Structure and Composition of Industry:** Issues of concentration, large vs small industry-industrial location; Small scale reservation policy; Trends and patterns of industrial growth.

**Regional Inequality in India:** Causes; policies for balanced regional development.

**Employment, Wages and Inflation:** The trends and pattern of employment and wages in India, problems of unemployment and under-employment.

**Foreign Trade Regime:** Protection and foreign competition.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, students will be able to:

1. Possess knowledge about Indian economic problems in the light of relevant economic theories and in a comparative perspective.
2. Appreciate the evolution of Indian economy, its institutional framework, planning policy.
3. Possess a deeper understanding of the relevance of international trade in view of protection and foreign competition.

### Reference Books:

1. *Jalan, Bimal (2004) The Indian Economy: Problems and Prospects, Penguin India; New edition.*
2. *Dutt, Rudrar and Sundaram, K.P.M. (2013) Indian Economy, S Chand Publishing. company.*
3. *Mishra and Puri (2010) Indian Economy, Himalayan Publication*



**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME303: INDUSTRIAL ORGANISATION

<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>
<b>3</b>	<b>0</b>	<b>0</b>	<b>3.0</b>

**Course Objectives:** The objective of this course is to help to learn how economic theories are used in the analysis of industries. Evaluate these theories in view of empirical evidence. Describe policy implications of these theories and their empirical evaluation.

**Industrial Development:** Evolution, Trade and Policy, Industrial Policies – Industrial licensing system.

**Structure and Composition of Industry** – Issues of concentration, large vs small industry – industrial location. Small scale reservation policy. Trends and patterns of industrial growth.

**Perspective of Industrial Organization:** Nature and Scope; Problems in Industrial Economics; A framework of Industrial Economics. Pricing Techniques: Basic Price; Product Line Pricing; Discount Structure; Pricing in Public enterprises.

**Theories of the Firm:** Profit maximization, Sales Maximization, Growth and Behavioral Theories

**Economics of Integration, Diversification and Mergers:** Concepts; Objectives; Performance, etc. Investment Decisions: The Basic Theory of Investment Decision; Capital Budgeting and Evaluation of Investment Decisions, etc.

**Research, Development and Innovation:** Definition; R & D as Investment Decision; Finance for R & D and Diffusion of new techniques.

**Technology and Foreign Collaboration Policy:** Foreign collaboration vs. Investment; government's recent policies; NRI investment issue; joint ventures in India and abroad; multinational corporations. India's industrial economy: industrial structure and growth; small scale and ancillary industries.

### **Course Learning Outcome (CLO):**

Upon the successful completion of this course, a student will be able to:

1. Develop an understanding about different industrial policies and structure and composition of Industry.
2. Develop an understanding of economics of integration, diversification and mergers.
3. Acquire a deeper understanding of policy implications of these theories and use them for critical analysis.

### **Recommended Books:**

1. Church J., Ware R. *Industrial Organization. A Strategic Approach*, Irwin, McGraw Hill (2009).
2. Tirole J. *The Theory of Industrial Organization*, The MIT Press (1998).
3. Hay D. and Morris D., *Industrial Economics and Organization*, Oxford: New Delhi (2001).
4. Stephen, Martin, *Advanced Industrial Organization*, Blackwell Publishing (2010).
5. Barthwal R.R. *Industrial Economics*, Wiley Eastern Ltd., New Delhi (1985).
6. Cherunilam, F. *Industrial Economics: Indian Perspective*, Himalaya Publishing House, Mumbai (1994).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME304: SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT (SAPM)

L	T	P	Cr
3	0	0	3.0

**Course Objectives:** The objective of the course is to help a student to understand the investment opportunities for making good investment decisions. Recognize where investment problems and controversies arise and know how to deal with them. Critically evaluate stock market reports and portfolio evaluations.

**Understanding Investments and Securities Markets:** The Investment Decision Process; Investment vs. Speculation. The Indian Securities Market: Constituents, Regulations and Trading; Investment Alternatives: Marketable and Non-Marketable Securities. Returns and Risks; Measurement of Risk and Return: Ex-post and Ex-ante, Risk and Return in a Portfolio Context up to three Securities

**Portfolio Theory:** Introduction to Portfolio Theory; Diversification and Risk; Markowitz and Efficient Frontier; Asset Pricing Models; The Capital Asset Pricing Model (CAPM); Security Market Line; Arbitrage Pricing Theory; • Other Multifactor Models.

**Market Efficiency:** Various Forms of Efficient Markets; Tests and Implications of Various Efficiency Levels

**Fundamental Analysis:** Economic Analysis: Global and Domestic Economic Indicators, Business Cycles; Industry Analysis: Analysis of Industry and Sectors, Life Cycle and Competitive Analysis, Industry Forecasts; • Company Analysis: Analysis of Company Strategies, Interpretation of Financial Results, Earnings and Profitability Estimation  
Fixed Income Securities; Pricing and Valuation, Interest rate risk and Bond Prices, Duration and Immunization; Bond Portfolio Management; Valuation of Equity: Discount Models (Dividend & Free Cash Flow); Relative Valuation methods (PE, P/BV, MV/BV etc.); Issues and Perspectives on Valuation

**Technical Analysis:** Conceptual Framework; Charting Techniques, Technical Indicators; Moving Averages and Stochastic Indicators; Portfolio Management: Specification of Investment Objective, Portfolio Selection and Strategies; Portfolio Rebalancing; Application of Derivatives in Portfolio Management, Evaluation of Performance: Measures of Return; Risk Adjusted Measures of Performance Market Timing; Other Issues in Performance Evaluation.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, a student will be able to:

1. Work out risk return profiles of clients; describe the basic features of financial securities and financial markets, analyze financial securities and construct and manage an investment portfolio.
2. Demonstrate an understanding of scope in the construction of a portfolio.
3. Identify and adapt to current investment trends, critically evaluate stock market reports and help in portfolio evaluations.

**Recommended Books:**

1. *Elton, Edwin J. and M. J. Gruber, Modern Portfolio Theory and Investment Analysis, 7th Edition, John Wiley and Sons (2007).*
2. *Chandra, Prasanna, Investment Analysis and Portfolio Management, Tata McGraw Hill, New Delhi. (2005).*
3. *Gordon J. Alexander, F. William Sharpe and V. Jeffery Bally, Fundamentals of Investments, Prentice Hall (2001).*

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizzes/Lab Evaluations)	20

## PME305: BEHAVIORAL FINANCE

L	T	P	Cr
3	0	0	3.0

**Course Objectives:** The course has been designed with the objective to help a student to understand the basic theories and strategies that make us aware of behavioral finance and investing. Know how to become more aware of the influences on investment decisions from investor's and speculator's perspectives to meet financial objectives. Analyze how psychological phenomena impact corporate decisions.

**Introduction:** Finance Theory as an Engine not a Camera; Rebuilding on New Foundations; Challenging the Classical Assumptions of Finance, Modeling, Behavioral Aspects of Finance.

**Foundations:** Financial Decision Making; The Expected Utility Rule; Expected Utility Theory; The Discounted Utility Model.

**Asset Pricing:** Noise Traders: Can Investors Get Emotional? Over-confidence and Optimism. Do Investors Trade Too Much? Asset Pricing under Prospect Theory; the Basics of Prospect Theory. The Cumulative Probability Version of Prospect Theory; Overreaction and/or Under reaction; Momentum. Herding; Insider Trading; Insider Trading here for Better or Worse; Insider Trading; Stock Options and the Construction of Earnings; Insider Trading and its Consequence for Outsiders; Equity Premium Puzzle; The Puzzle; Loss Aversion in a Reference-Dependent Utility Model.

**Corporate Finance:** Incorporation: Companies: Where did They Come from and Where Will They Go? Agency; Monitoring and Incorporation; The Market for Information; Noise and Deception. The Boundaries of the Market for Corporate Information; What Do Analysts Do? Valuing Investment Advice; Dividends; The Irrelevance of Dividends to Value; A Prospect Theory Explanation of Dividend Payments.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, a student will be able to:

1. Articulate the concepts and principles that support behavioral finance and know how to analyze, as well as compare and contrast basic behavioral finance theories that support decision making;
2. Understand the basic theories and strategies that make us aware of behavioral finance.
3. Develop strategies for dealing with financial and investment behaviors.
4. Analyze and evaluate investments with financial behavioral tools.

### Reference Books:

1. William Forbes, *Behavioral Finance*, John Wiley & Sons (2011).
2. Burton, Edwin and Shah, Sunit N., *Behavioral Finance: Understanding the Social, Cognitive, and Economic Debate*, Wiley (2013).
3. Parikh Parag, *Value Investing and Behavioral Finance*, Tata McGraw-Hill Education (2009).
4. M.M. Sulphrey, *Behavioral Finance*, PHI Learning (2014).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME306: FINANCIAL DERIVATIVES AND RISK MANAGEMENT

L T P Cr

3 0 0 3.0

**Course Objective:** This course is designed with the objective to help a student to acquire working knowledge of derivative securities and their applications in hedging. Explore the properties of options, futures and swaps as derivatives. Understand the valuation process of options, futures and swaps as derivatives.

**Introduction to Risk Management:** Elements of uncertainty, Sources of risk; Types of risk; Implications of various risks for firm; limitations of risk management.

**Corporate Risk Management:** Total risk and Expected cash flows; Evolution of risk management. Approaches to risk management; Risk Management process; Tools Hedging, forwards, and futures, options and swaps and Hybrids; Risk management guidelines, and Risk management in practice.

**Introduction to Derivatives:** Historical perspective, Exchanges the Mechanics of derivative markets, the role of clearinghouses, market players and trading techniques.

**Futures:** The fundamentals of futures contract; Overview, Types of futures, Mechanics of future trading, Major characteristics, Exchange organization, Trading process, Price quotations, Hedging and Speculation with Commodity futures, Interest rate futures, Currency futures and Stock Index futures. Optimal hedge ratio, Pricing of Index Futures Contracts, Stock Index Arbitrage, Applications of Index Futures and Beta Management.

**Options:** Overview, Generic options, factors affecting option prices, Types of options; Interest rate options, Currency options and Trading strategies, Option pricing models, Options on futures contracts and Exotic options; Elementary Inventory strategies, Complex Investment Strategies, Covered Call Writing, Protective Put, Straddles and Strangles, Spreads, Evaluation of Option Based Investment Strategies, Risk Associated with Options, Options Sensitivities

**Swaps:** Evolution of swap market, Swap terminology and structures of standard coupon and currency swaps, Motivations underlying swaps; Types of swaps, Mechanics of swap transactions; Valuation and Application of swaps.

**Credit Derivatives:** Evolution, need for credit derivatives, Types- credit default based, repackaged notes, total return swaps, and risks involved

**Weather Derivatives:** Concept, Application in real life and recent developments.

**Value at Risk:** Concept and Applications, JP Morgan's Risk Metrics Methodology for measuring market Risk, Computing value at risk for forex common shares/stocks/fixed income securities etc. estimating value at risk in ALM.



**Course Learning Outcome (CLO):**

Upon the successful completion of this course, a student will be able to:

1. Possess knowledge of derivative securities and their application in hedging.
2. Critically evaluate the properties of options, futures and swaps as derivatives.
3. Provide a framework for their valuation options, futures and swaps as derivatives.

**Text Books:**

1. Mahajan R., *Futures and Options: Introduction to Equity Derivatives*. Vision Books (2014).
2. Hull, John C., *Options Futures and other Derivatives*. Pearson (2013).
3. Parameswaran, Sunil, *Fundamentals of Financial Instruments: An Introduction to Stocks, Bonds, Foreign Exchange, and Derivatives*. John Wiley & Sons (2011).
4. Kevin, S., *Financial Derivatives*. PHI Learning (2014).
5. Srivastava, Rajiv. *Derivatives and Risk Management*, OUP India (2014).
6. Chance, Don M., *An Introduction to Derivatives and Risk Management*. Cengage (2013).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME307: E-BUSINESS

<b>L</b>	<b>T</b>	<b>P</b>	<b>Cr</b>
<b>3</b>	<b>0</b>	<b>0</b>	<b>3.0</b>

**Course Objectives:** The course has been designed with the objective to help a student to understand the main aim, advantages and types of e-Business. Identify how the companies can create a sustainable competitive advantage using the Internet. Explain the opportunities and issues in international e-business.

**Introduction to E-Business:** Meaning of E-business, Business design for e-business, e-business types, communities and major business trends, linking today's business with tomorrow's technology, causes of e-business failures.

**Steps to E-Business:** Integrating applications clusters into on e-business architecture aligning the e-business design with application integration.

**Customer Relation Management (CRM):** Definition, new CRM architectures, challenges in CRM implementation, next generation CRM trends, manager's roadmap for building CRM infrastructure

**Selling Chain Management:** Elements of SCM, driving forces for SCM, managing order acquisition process, Case Study of CISCO's S.C.M.

**Enterprise Resource Planning (ERP):** Meaning of ERP, need for ERP, ERP implementation planning, stages and future of ERP.

**E-Procurement:** Purchasing versus procurement, operating resource procurement, e-Procurement Chain Management, next generation integrated procurement applications, elements of buy-side e-procurement solutions, elements of sell-side e-procurement solutions. Managers Road map for e-procurement, case studies on e-Procurement.

**Concept and Need for Knowledge Applications:** Emerging classes of knowledge tone applications, elements of knowledge-tone architectural framework, Data ware housing, Online data analytical processing, Roadmap to knowledge tone framework.

**Developing the E-business Design:** Challenges of e-business strategy; roadmap to moving company into e-business, translating e-business strategy into action, E-business blueprint creation, steps of blueprint planning, blueprint planning.

### **Course Learning Outcome (CLO):**

Upon the successful completion of this course, a student will be able to:

1. Acquire knowledge about the main aim, advantages and types of e-Business.
2. Learn the theoretical and practical issues of conducting and creating a sustainable competitive business over the internet and the Web by evaluating user needs.
3. Possess a deep understanding the opportunities and issues in international e-business.

**Recommended Books:**

1. Kalakota, Ravi and Robinson, Marcia, *E-Business 2.0: Roadmap for Success*, Addison-Wesley Professional (2004).
2. Chaffey, Dave, *E-Business and E-Commerce Management Strategy, Implementation and Practice*, Pearson Publications (2013).
3. Tawfik Jelassi and Albrecht Enders, *Strategies for E-Business concepts and cases*, Pearson Publications (2008).
4. Canzer, Brahm, *E-Business: Theory and Practice*, Cengage Learning India Pvt. Ltd. (2011).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME308: CORPORATE GOVERNANCE

L	T	P	Cr
3	0	0	3.0

**Course Objective:** This course is designed with the objective to help a student to increase the understanding of corporate governance issues. Develop business judgment, hone the skills in problem diagnosis, governance analysis and articulation of an implementable governance plan, and ability to think critically. Understand corporate governance codes and their usefulness in achieving better corporate governance practices. Understand the role of audit committee, its composition and responsibilities.

**Corporate Governance:** Concept, Role of the Shareholders, Directors, CEO, Managers, and Employees. Management: Performance, Nature of Corporate Governance, Reasons for Corporate Governance, Key challenges and opportunities facing corporate leaders today.

**Need for Corporate Governance:** Economic reforms, corporate philosophy and development, Constituents of “Good” Corporate Governance.

**Corporate Governance Strategies:** Effective Corporate Strategies and their Adaptation, Codes of Best Practices.

**Corporate Governance across Borders:** Comparison and Analysis Corporate Governance in Global Operations: Design and Actions, International Corporate Governance.

**Corporate Governance and Accountability in MNCs:** Analysis of the Corporate Governance of a Corporation.

**Social Responsibilities in International Business:** Corporate Governance and Social Responsibilities in International Business  
**Corporate Governance Failures:** Reasons for Corporate Governance Failures.

### **Course Learning Outcomes (CLO):**

Upon the successful completion of this course, a student will be able to:

1. Increase the understanding of corporate governance issues.
2. Develop business judgment and hone the skills in problem diagnosis, governance analysis and ability to critically think and analyze corporate governance issues.
3. Discuss and analyze the role of corporate governance codes and evaluate their usefulness in achieving better corporate governance practices.
4. Recognize the significance of audit committee, its composition and responsibilities.

### **Recommended Books:**

1. *Darryl Reed, Sanjoy Mukherjee, Corporate Governance, Economic Reforms, and Development the Indian Experience, Oxford University Press (2009).*
2. *Robert Monks (Lens Inc), Robert Monks (Lens Inc) and Nell Minow (Lens Inc), Corporate Governance Third Edition, Blackwell Publishing (2003).*
3. *Yadong Luo, Global Dimensions of Corporate Governance, Blackwell Publishing (2006).*

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

**Course Objectives:** The objective of the course is to help a student to understand the issues faced by multinational enterprises. Understand foreign direct investment and its impact on industries and nations. Understand the development and activities of Multinational Enterprises (MNE) and their regulation from economic and legal perspectives.

**Multinational Enterprises** and Determinants of Foreign Direct Investments, Choice between exports, licensing and FDI, market seeking FDI and efficiency seeking FDI, ownership; location; internalization advantages paradigm, transactions costs and internalization advantages, inter-industry studies, inter-country studies, WTO regime and FDI.

**Technology, MNE and Exports:** Neoclassical framework: country level studies-countries export and it is reflected in country resource, endowments, assumptions regarding knowledge and technology.

**Neo-Schumpeterian Theories of Trade:** Firm level studies, heterogeneity of firms and proprietary advantages, intra-industry differences, market segmentation, strategic groups with in and industry and mobility barriers, MNEs and others, firm specific resources.

**MNEs, Productivity, Efficiency Spillovers and Strategic Competency Building:** Impact of FDI on host country firms, productivity spillovers, efficiency spillovers, heterogeneity of firms and spillovers, changing policy regimes and spillovers; Strategic competency building, Building perceptions of High quality, leadership and Trust.

**FDI in R&D:** Global nature of FDI, emergence of new centers and clusters of knowledge, knowledge based wealth creation, effect of FDI in R&D in home country: loss of technological capacity, role of patents and patents citations, India's policies to attract FDI in R&D.

**Course Learning Outcomes (CLO):**

Upon the successful completion of this course, a student will be able to:

1. Acquire an understanding of the issues faced by multinational enterprises.
2. Develop a deeper understanding of foreign direct investment and its impact on industries in India.
3. Possess a deeper understanding of the development and activities of Multinational Enterprises (MNE) and their regulation from economic and legal perspectives.

**Recommended Books:**

1. *John H Dunning, International Business: The Multinational Enterprise, Routledge (2013).*
2. *Tirole, J., The Theory of Industrial Organization, MIT Press (1988).*
3. *Martin, S., Industrial Economics- Economic Analysis and Public Policy, Englewood Cliffs, New Jersey: Prentice Hall (1993).*
4. *Chattopadhyay, Amitava, Batra, Rajeev and Ozsomer Aysegul, The New Emerging Market Multinationals: Four Strategies for Disrupting Markets and Building Brands, McGraw Hill Education (India) Private Ltd. (2012).*

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME401: PUBLIC ECONOMICS

L	T	P	Cr
3	0	0	3.0

**Course Objective:** The course has been designed to create knowledge about the vast areas of fiscal institutions, tax systems, expenditure programs. Help to understand budgetary procedures, stabilization instruments, debt issues, levels of government, etc., which raise a spectrum of issues arising from the operation of these institutions. Help to assess Indian tax policy from practical and theoretical economic perspectives.

**Introduction to Public Economics:** The nature, scope and significance of public economics  
**Forms and Functions of Government:** Different forms of government – unitary and federal.  
**Tiers of government in the federal form-** Central, State, Local (Introductory discussion with examples).

**Functions of Government:** Economic functions -allocation, distribution and stabilization.  
Regulatory functions of the Government and its economic significance.

**Federal Finance:** Different layers of the government, inter governmental transfer-horizontal vs. vertical equity, Grants-merits and demerits of various types of grants-unconditional vs. conditional grants, tied grants, matching grants.

**Public Goods and Public Sector:** Concept of public goods-characteristics of public goods, national vs. local public goods, determination of provision of public good; Externality, concept of social versus private costs and benefits, merit goods, club goods. Provision versus production of public goods; Market failure and public provision; Pricing of public goods-vertical summation

**Government Budget and Policy:** Government budget and its Structure-Receipts and expenditure - concepts of current and capital account, balanced, surplus, and deficit budgets, concept of budget deficit vs. fiscal deficit, functional classification of budget; Concept of Revenue Deficit.

**Budget, Government Policy and its Impact:** Revenue Resources: Concept of tax, types of tax-direct tax and indirect tax, canons of taxation, subsidy, transfer policy; Principles of Taxation-Ability to Pay principle (brief discussion), Benefit Approach, VAT, Goods and Services Tax.

### **Course Learning Outcome (CLO):**

Upon the successful completion of this course, a student will be able to:

1. Possess knowledge about the vast areas of fiscal institutions, tax systems and expenditure programs.
2. Acquire knowledge about budgets, budgetary procedures, stabilization instruments, debt issues and the taxation structure.
3. Critically assess Indian tax policy from practical and theoretical economic perspectives.



**Recommended Books:**

1. *Musgrave, R. A. and Musgrave, P. B., Public Finance in Theory and Practice, McGraw-Hill Higher Education (2007).*
2. *H.L. Bhatia, Public Finance, Vikas Publishing House (2012).*
3. *Harvey, Rosen, Public Finance. McGraw Hill Education (India) Private Limited (2012).*
4. *Dutt, Ruddar and Sundaram, K.P.M., Indian Economy, S Chand Publishing Company (2013).*

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME402: INTERNATIONAL FINANCIAL MODELLING

L	T	P	Cr
3	0	0	3.0

**Course Objectives:** This course is designed to help a student to learn the application of MS-Excel in the financial modeling. Learn to create spreadsheet based solutions to financial problems and understand statistical analysis of stock prices and stock returns. Understand portfolio construction and optimization, capital market models. Understand elementary Excel functions that allow financial computation and analysis for optimizing financial decisions.

**Excel as a Tool in Financial Modeling:** Excel concepts – Basic commands; Functions – math's, logical, look up, date, text and financial; Chart, diagram, picture, background, auto format, conditional formatting, style, filter, sort; Formulas and macros.; What if analysis, pivot table, pivot chart, scenario, goal seek, problem solver tool, advanced filter.

**Financial Modeling Basic Concepts:** Introduction, Advanced functions of MS-Excel as a tool in financial modeling; Components of a financial model, building the template, filling in the historical data, identifying assumptions and drivers, forecasting various schedules and financial statement, building the supporting schedules, various approaches to valuation, key ratios, financial ratios and company analysis, Building cases and sensitivity analysis: - looking at the probabilistic analysis of the best and worst case scenario.

**Cash Ratios and Non Cash Valuations:** Cash Ratio – Structured model with a menu & accounting statements, Calculating key financial ratios, Deriving an international cash flow; Non Cash Flow Valuations – Accounting methods, Dividend discount models, Market-based methods – EPS and multiples, Fundamentals EV/EBITDA, EV/Sales, etc, Peer groups.

**Forecasting Methods and Initial Valuations:** Review of forecasting methods, relationship between company and financial strategy, identifying and forecasting key drivers, linkages and modeling problems, Deriving free cash flow. Cost of capital and initial valuation alternative theories-bonds and arbitrage pricing theory, capital asset pricing model constituents, asset and equity betas, mathematical derivation, methods of adding terminal value, producing an equity valuation, comparison to existing share price.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, a student will be able to:

1. Apply MS-Excel in the financial modeling.
2. Develop spreadsheet based solutions to financial problems and have a deeper understanding of statistical analysis of stock prices and stock returns.
3. Construct portfolio and optimization based on the knowledge of capital market models.
4. Indulge in financial computation and analysis and optimize financial decisions.

### Recommended Books:

1. *Benninga, Simon, Financial Modeling, MIT Press (2014).*
2. *Chandan Sengupta, Financial Modeling Using Excel and VBA. Wiley Finance (2011).*

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME403: ECONOMICS OF EDUCATION AND HEALTH

L T P Cr

3 0 0 3.0

**Course Objectives:** The course has been designed with the objective to help in understanding the role of human capital, especially of education and health in economic development. Acquaint the students with developments in education and healthcare. Relate human development with economic development.

**Education:** Costs and Benefits, Human capital verses physical capital; Education as an instrument for economic growth; Demand for education-private demand and social demand; Cost of education-private and social cost; Waste and stagnation; Benefits of education-direct and indirect, private and social benefits.

**Educational Planning and Financing:** Educational planning and economic Growth; Educational planning Techniques-Costs-Benefit Analysis; Production function models, growth accounting equations of Schultz and Denison, manpower requirement approach; educational financing - resource mobilization and utilization, pricing and subsidies; Effects of education, ability and family background on earnings, poverty and income distribution.

**Health Economics:** Health dimensions of development; Determinants of health, poverty, malnutrition and environmental issues; Economic dimensions of health care-demand and supply of health care; Financing of health care and resource constraints; health care production theory; Institutional issues in health care delivery.

**Education and Health in India:** Primary education—achievements and concerns; Case for compulsory education; Financing of universal primary education; Higher education in India—changing perspective, education and earnings, household expenditure, growth of higher education; Public health scenario in India- burden of diseases, infant and child mortality rates, maternal health, infectious and parasitic diseases; Life style diseases, morbidity and physical disability, health care expenditure.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, a student will be able to:

1. Acquire a deeper understanding of the role of human capital, especially of education and health in economic development.
2. Possess knowledge of the latest developments in education and healthcare.
3. Acquire skills to relate human development with economic development.

### Recommended Books:

1. *Berman, P. (ed), Health Sector Reforms in Developing Countries: Making Health Development sustainable. Harvard Series on Population and International Health, Boston (1995).*
2. *Blaug, M., Introduction to economics of Education, Penguin, London (1972).*
3. *Klarman, H. E., The Economics of Health, Columbia University Press, New York (1965).*
4. *Schultz, T.W., Investment in Human Capital, Free Press, New York (1971).*

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20

## PME404: ENERGY AND ENVIRONMENTAL ECONOMICS

L T P Cr

3 0 0 3.0

**Course Objectives:** This course is designed with the objective to help a student to understand energy and environmental issues. Understand various theories of Energy Economics. Understand issues of externalities and cost-benefit analysis. To make them convergent of issues like global warming and carbon emissions.

**Introduction to Energy Economics:** Meaning and concepts of energy, Nature, scope and importance of energy economics, Different sources of energy, renewable and non-renewable sources, economic importance of non-renewable energy

**Theories of Energy Economics:** Olduvai Theory, Hubbert Peak oil theory, Theory of energy use, Rosenfeld curve of energy intensities, Rebound effect, demand and supply theory of oil

**Economics of Choice among Alternative Energy Sources:** Economic criteria for evaluating power technologies in less developed countries, energy cost comparison, techniques for appraising the energy economy and outlook in less developed countries.

**Energy and Economic Growth:** Energy and economic growth, development – relationship between energy consumption, energy prices and economic growth, energy security.

**Environment Economics:** Issues and challenges, externalities, cost-benefit analysis, pollution, Carbon emissions, global warming.

**India's Energy Sector:** Indian energy sector organizational structure, energy supply (coal, lignite, oil, gas and powers: hydro, nuclear, thermal), Energy demand (agriculture, industry, transport, domestic, etc), renewable energy sources and technology (solar, wind, biogas, biomass, geothermal, OTEC, tidal, wave hydrogen, fuel cell, biodiesel) renewable energy programs, energy under five year plans, energy issues and policy options for India.

### Course Learning Outcomes (CLO):

Upon the successful completion of this course, a student will be able to:

1. Possess knowledge of energy and environmental issues.
2. Understand various theories of Energy Economics and their implications.
3. Evaluate performance on the basis of cost-benefit analysis.
4. Convergent to the issues like global warming and carbon emissions.

### Recommended Books:

1. Agarwal, S.K. *Environment and Natural Resources Economics*, Scott Foresman and Co., London (1985).
2. Kneese. A.V and Sweeny, J.L., *Handbook of Natural Resource and Energy Economics: North Holland* (1993).
3. Agarwal, M.C. and Monga, J.R., *Economic and Commercial Geography*, National Publishing House, New Delhi (1992).
4. Common, M. *Environmental and Resource Economics*, Longman, London (1996).
5. Raikhy, P. S. and Parminder Singh. *Energy Consumption in India pattern and Determinants (Deep and Deep, New Delhi* (1990).

**Evaluation Scheme:**

<b>Sr. No.</b>	<b>Evaluation Elements</b>	<b>Weightage (%)</b>
1	MST	30
2	EST	50
3	Sessionals (May include Assignments/Projects/Tutorials/Quizes/Lab Evaluations)	20