

PG ECONOMICS 2018-19
COURSE PROFILE:

SEM	COURSE CODE	TITLE OF THE PAPER	CREDITS	MARKS		
				CA	SE	T
I	3P18/1C/AMT// 8P18/1C/AMT	Advanced Micro Economic Theory	4	40	60	100
	3P18/1C/PUE	Public Economics	4	40	60	100
	3P18/1C/MFE// 8P18/1C/MFE	Mathematics for Economists	4	40	60	100
	3P18/1C/SFE// 8P18/1C/SFE	Statistical Methods for Economists	4	40	60	100
	3P18/1E1/ FNE// 8P18/1E1/ FNE	Financial Economics	3	40	60	100
	Soft Skill	Personality Enrichment for Women	2		50	50
II	3P18/2C/MEA// 8P18/2C/MEA	Macro Economic Theory and Analysis	4	40	60	100
	3P18/2C/HES	Health Economics	4	40	60	100
	3P18/2C/ECM// 8P18/2C/ECM	Econometric Methods	4	40	60	100
	3P18/2C/SCA// 8P18/2C/SCA	Statistics with Computer Applications	4	40	60	100
	3P18/2E2/MGE// 8P18/2E2/MGE	Managerial Economics	3	40	60	100
	3P18/2E/ HCM	Health Care Management	3	40	60	100
	Soft Skill	Interpersonal Communication	2		50	50
III	3P18/3C/IEY// 8P18/3C/IEY	Indian Economy	4	40	60	100
	3P18/3C/MOE// 8P18/3C/MOE	Monetary Economics	4	40	60	100
	3P18/3C/RMC// 8P18/3C/RMC	Research Methodology and Computer Applications in Economics	4	40	60	100
	3P18/3E3/ECS	Economics of Social Issues	3	40	60	100
	3P18/3E4/ EIS	Economics of Infrastructure	3	40	60	100
	3P18/3E/HAD	Hospital Administration	3	40	60	100
	3P18/3S/YML// 8P18/3S/YML	Yoga and Meditation for Better Living	2		50	50
I V	3P18/4C/EGD// 8P18/4C/EGD	Economics of Growth and Development	4	40	60	100
	3P18/4C/INE// 8P18/4C/INE	International Economics	4	40	60	100
	3P18/4C/ENE// 8P18/4C/ENE	Environmental Economics	4	40	60	100
	3P18/4C/PRJ	Project	4	40	60	100
	3P18/4E5/DEY	Demography	3	40	60	100
	3P18/4S/EMS// 8P18/4S/EMS	Employability Skills	2		50	50

		Internship	2			
		Total	91			

SEMESTER – I

MATHEMATICS FOR ECONOMISTS

Teaching Hours : 90

Credits: 4

Course Code : 3P18/1C/MFE// 8P18/1C/MFE

LTP : 3/ 3/ 0

COURSE OBJECTIVES AND OUTCOME:

- To enable Students to understand the application of Mathematical Tools to Economic Theories.
- To formulate Mathematical Models.

COURSE OUTLINE:

UNIT I: Vector and Matrix Algebra– Basic Operations – Trace - Rank and Inverse of a Matrix – Orthogonal Matrix – Partitioned Matrix – Elementary Transformation of a Matrix – Vector and Matrix Differentiation – Quadratic Form – Definite Matrices - Definition - Types and Properties – Positive Definite - Negative Definite.

(20 hrs)

UNIT II: Linear Equations - Consistency of a System of Linear Equations – Solution of a System of Linear Equations (homogenous and non-homogenous) – Linear Transformation – Eigen Values and Eigen Vectors.

(15 hrs)

UNIT III: Optimization Methods – Two and Three Variables – Unconstrained Optimization – Jacobian, Hessian – Constrained Optimization – Lagrangian.

(15 Hrs)

UNIT IV: Differential Equations types (elementary ideas) – Linear Differential Equations with Constant Coefficients (First, Second and Higher Order) – Solution of Differential Equations (Homogenous and Non-Homogenous) – Applications – Samuelson’s Accelerator and Multiplier Model.

(20 hrs)

UNIT V: Difference Equations- Finite Differences: Operators ‘E’ and ‘Δ’ – Linear Difference: Equations with Constant Coefficients (first, second and higher order) – Solution of Difference Equations (Homogenous and Non-Homogenous) – Applications – Samuelson’s Accelerator and Multiplier Model.

(20 hrs)

SEMESTER – I

STATISTICAL METHODS FOR ECONOMISTS

Teaching Hours : 90 Credits: 4
Course Code : 3P18/1C/SFE // 8P18/1C/SFE LTP: 3/ 3/ 0

COURSE OBJECTIVES AND OUTCOME:

- To make students familiar with various Statistical Tools and their applications in Economic Analysis and Scientific Research Work.
- To develop skills in handling complex problems in Data analysis and Research designs.

COURSE OUTLINE:

- UNIT I:** Interpolation and Extrapolation –Newton’s and Lagrange’s Methods.
(15 hrs)
- UNIT II:** Probability - Addition and Multiplication Theorems - Conditional - Probability - Discrete and Continuous - Random Variables - Mathematical Expectations – Bayes Theorem- Theoretical Distributions - Binomial, Poisson and Normal.
(20 hrs)
- UNIT III:** Simple, Partial and Multiple Correlation- Regression- Regression Lines- Multiple Regression.
(20 hrs)
- UNIT IV:** Univariate and Multivariate Techniques – Factor Analysis.
(15 hrs)
- UNIT V:** Vital Statistics – Sources – Errors in Census and Registration – Measurement of Population rate and Ratio of vital events – Measurement of Mortality - Crude Death Rate (CDR) - Specific Death Rate (SDR) - Infant Mortality Rate (IMR) and Standardized Death Rate (SDR) - Maternal Mortality Rate (MMR) - Morbidity Rate.
(20 Hrs)

SEMESTER – I

FINANCIAL ECONOMICS

Teaching Hours : 60

Credits: 3

Course Code : 3P18/1E1/FNE//8P18/1E1/FNE

LTP:2 /2/ 0

COURSE OBJECTIVES AND OUTCOME:

- To understand the financial system of India.
- To have an insight about trading in the financial markets.
- To analyse the security system in financial markets.

COURSE OUTLINE:

UNIT I: Capital Market- Money Market- Primary Market - Definition - Kinds of Issues - General Conditions - Governing issues of shares in Primary Market - (a brief view) – Intermediaries involved in Primary Market.

(10 hrs)

UNIT II: Secondary Market - Definition - Securities dealt in Secondary Market - Listing of Securities –Meaning – Objectives - Classification of Listed Securities - Benefits of Listing to Companies and Investors - Stock Brokers - Types of Stock Brokers in Stock Exchanges

(15 hrs)

UNIT III: Stock Brokers - Underwriters- Advantages- Responsibilities - Depositories- Functions- Procedure - Benefits- Remedies- Credit Rating Agencies- Benefits- Instruments- Investors- Company - Basic types.

(10 hrs)

UNIT IV: OTCEI - Insider Trading - Online Trading System - Meaning – SEBI - Objectives - Administration and Activities of SEBI - SEBI and Primary Market - SEBI and Secondary Market / Vanilla Interest Rate Swaps – Swaptions - other types of Swaps – Currency - Equity and Commodity Swaps - Rating Derivatives

(15 hrs)

UNIT V: Merchant Banking- Recognition-Conditions - Role- Functions- Mutual Funds- Classification-Benefits- Performance -Venture Capital - Importance - Types

(10 hrs)

SEMESTER – II

ECONOMETRIC METHODS

Teaching Hours: 75

Credits: 4

Course Code : 3P18/2C/ECM // 8P18/2C/ECM

LTP : 3/ 2/ 0

COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand the essential quantitative tools to make decision making a rational process.
- To learn the technique of finding optimal solutions in a dynamic business environment.

COURSE OUTLINE:

UNIT I: Regression Analysis - Linear Regression Model – Two Variables and Multi Variables – BLUE property – General and Confidence Approach to Hypothesis Testing – Partial Effects and Elasticity – Goodness of fit - Extension of Linear Regression Models - Definition, Sources - Consequences and Detection of Multicollinearity – Heteroscedasticity - Autocorrelation and Remedial Measures.

(15 hrs)

UNIT II: Dummy Variables - Regression on Qualitative and Quantitative Variables - Dummy Variable Trap – Structural Stability of Regression Models – Chow Test – Deseasonalisation - Piecewise Linear Regression Model.

(15 hrs)

UNIT III: Distributed Lag Models - Formation of Expectations - Naïve Expectation Versus Adaptive Expectations Models – Partial Adjustment Models - Distributed Lag Models - Koyck's Model – Almon Lag - Polynomial Distributed Lag Models - End Point Restriction– Rational Expectation Models.

(15 hrs)

UNIT IV: Simultaneous Equation Methods – Approaches to Estimation – Recursive Models and Ordinary Least Squares – Estimation of Just - over and under Identified Equation - The Method of Indirect Least Squares (ILS) – Estimation of an over identified equation - The Method of Two – Stage Least Squares (2SLS).

(15 hrs)

UNIT V: Time Series Analysis - Time Series Econometrics: Forecasting – Approaches to Economic Forecasting – AR - MA and ARIMA Modeling of Time Series Data – Box-Jenkins (BJ) Methodology – ARCH and GARCHs.

(15 hrs)

SEMESTER – II

STATISTICS WITH COMPUTER APPLICATIONS

Teaching Hours: 75

Credits: 4

Course Code : 3P18/2C/SCA // 8P18/2C/SCA

LTP : 2/2/1

COURSE OBJECTIVES AND OUTCOME:

- To make students familiar with various Statistical Tools and their applications in Economic Analysis for Scientific Research Work.
- To develop skills in handling complex problems in Data Analysis and Research design.

COURSE OUTLINE:

UNIT I: Sampling Theory- Types of Sampling -Sampling Distributions and Standard Error of– Means - Standard Deviation and Proportions - Testing of Hypothesis - Level of Significance - Type I and Type II Error - Large Sample test for Two Means - Two Standard Deviations and Two Proportions.

(15 hrs)

UNIT II: Estimator and Estimate – Point and Interval Estimates – Reliability of an Estimate – Sampling Variance and Mean Square Error – Properties of a good estimator.

(15 hrs)

UNIT III: Small Sample Test – t-test- Paired t- test - Chi-square Test- Test of Goodness of Fit – Test of Homogeneity - Test of Independence of Two Attributes.

(15 hrs)

UNIT IV: F test – Analysis of Variance- One Way and Two Way Classifications.

(15 hrs)

UNIT V: Introduction – Statistical Data Files- Statistical Workbook – Installation – Data Spreadsheet Toolbar - Scroll Sheet Applications- Diagrams and Graphs - Elementary concepts in Statistics – Application in Computer – Correlation, Multiple Correlation - Regression – Multiple Regression – ANOVA (**Practical Examination only. No question for End Semester Examination**)

(15 hrs)

SEMESTER II

MANAGERIAL ECONOMICS

Teaching Hours : 60

Credits: 3

Course Code : 3P18/2E2/MGE//8P18/2E2/MGE

LTP: 4/0/0

COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand the Models and Managerial Theories of the firm.
- To equip them in selecting projects under risk and uncertain conditions.

COURSE OUTLINE:

UNIT I: Definition of Economic Models – Types of Models – Analysing Cases in Managerial Economics – Usefulness of Case Study Method – Limitations of Case Study Method.

(15hrs)

UNIT II: Inventory Management- Types of Inventory - Methods of Inventory Control – EOQ – ABC - VED Analysis.

(10hrs)

UNIT III: Role of Government in Market Economy – Legal and Social Framework – Restraining Unfair Competition – Increasing Market Power – Reallocation of Resources – Redistribution of Income – Regulation of Natural Monopoly – Stabilisation of the Economy.

(15hrs)

UNIT IV: Risk in Project Analysis – Selection of a Project – Finite Horizon Method Certainty – Equivalent Approach – Decision Tree Approach – Sensitivity Analysis – Capital Budgeting – IRR – NPV.

(10hrs)

UNIT V: Forecasting - Economics and Business Forecasting Methods of Economic Forecasting – Evaluating Forecasts

(10hrs)

SEMESTER – II

HEALTH CARE MANAGEMENT

Teaching Hours : 60

Credits: 3

Course Code : 3P18/2E/HCM

LTP: 3/1/0

COURSE OBJECTIVES AND OUTCOME:

- To enable students to understand about the health care administration and medical care.
- To expose the students to Health Insurance and First Aid.

COURSE OUTLINE:

UNIT I : Definition of Health – Health as a Component of Human Resource Development – Health as a Commodity and Service – Scope of Health Management.

(10hrs)

UNIT II : Health Awareness – Health Education - Approaches to Health Education - Health Education and Health Services – Planning Health Education.

(10hrs)

UNIT III: Health Management – Preventive Care and Curative Care – Individual Health Care – Role of the State in Health Care – Privatization and Health Care – Rural Health Care – Tele Medicine.

(15hrs)

UNIT IV: Health Insurance – Private – Government – Recent Trends.

(10hrs)

UNIT V: First Aid – Need for First Aid – Methods of First Aid – Medical Tourism – Health Tourism in India.

(15hrs)

SEMESTER-III

RESEARCH METHODOLOGY AND COMPUTER APPLICATION IN ECONOMICS

Teaching Hours: 75

Credits : 4

Course Code : 3P18/3C/RMC//8P18/3C/RMC

LTP : 2/2/1

COURSE OBJECTIVES AND OUTCOME:

- To understand the research, the research process in a scientific manner.
- To assist the students in preparing project dissertation and proposals.
- To learn the computer applications in Economic research.

COURSE OUTLINE:

UNIT I: The Scientific Approach – Aims of Social Sciences –Scientific Sciences – Scientific Revolution – Role of Methodology – Research Process – Conceptual Foundation of Research – Economic Theory and Methods – Axiomatic, Mathematical and Historical Methods – Theory, Models and Empirical Research – Basic Elements in Research – Identification of a Research Problem – Hypothesis Formulation and Testing – Research Process– Ethics in Research.(15 hrs)

UNIT II: Principles and Process in Data Collection – Primary Data – Case Study Method– Survey Research – Sample Selection – Sampling Design – Preparation of Structure Interview Schedule – Construction of Questionnaire – Pilot Study – Classification and Tabulation – Diagrammatic Representation – Secondary Data – Sourcing of Data for India and Tamil Nadu – Census of India, NSSO, Economic Survey , RBI Report , Agricultural Census, Annual Survey of Industries.(15 hrs)

UNIT III: Concept of Data, Record and File – Type of Data and Data Structure – Data – File handling and operations – Data storage and retrieval – Data Operations – Algorithms like Sorting , Merging, Joining and Bifurcation – Data Base Concept and Operation on Data Base.(15 hrs)

UNIT IV: Series – Group tables – Groups and objects – Time and Frequency Series – Regression Methods and Techniques – Regression Analysis – Trends and Forecasting – Report writing – Plan of Research report – Style & Mechanics of writing Research report.(15 hrs)

UNIT V: Application of Software to Economic Research – (Practical Classes).

