

PG ECONOMICS 2015- 2016

1. COURSE PROFILE:

SEMESTER I

Core	Code	Title	H	Credit	CA	End Sem	Total
Core: 1	3P15/1C/MIC	Micro Economic Analysis	6	4	40	60	100
Core: 2	3P15/1C/PUB	Public Economics	6	4	40	60	100
Core: 3	3P15/1C/MAT	Mathematics for Economists	6	4	40	60	100
Core: 4	3P15/1C/STA	Statistics for Economists	6	4	40	60	100
Major Elective: 1	3P15/1E1/FIN	Financial Economics	4	3	40	60	100
Soft Skills	PG15/1S/PEW	Personality Development	2	2			
	Total		30	21			

SEMESTER II

Core: 5	3P15/2C/MAC	Macro Economic Analysis	5	4	40	60	100
Core: 6	3P15/2C/WEL	Welfare Economics	5	4	40	60	100
Core: 7	3P15/2C/OPE	Operations Research	5	4	40	60	100
Core: 8	3P15/2C/STT	Statistics with Computer Applications	5	4	40	60	100
Major Elective:2	3P15/2E2/MAN	Managerial Economics	4	3	40	60	100
Extra Disciplinary Elective Subject:1	3P15/2E/HEA	Health Care Management	4	3	40	60	100
Soft Skills	3P15/2S/INT	Interpersonal Communication	2	2			100
	Total		30	24			

SEMESTER III

Core	Course Code	Course Title	Hrs	Credit	CA	End Sem	Total
Core: 9	3P15/3C/APE	Applied Econometrics	6	4	40	60	100
Core: 10	3P15/3C/MON	Monetary Economics	5	4	40	60	100
Core: 11	3P15/3C/RES	Research Methodology	5	4	40	60	100
Elective 3	3P15/3E3/EAI	Economics of Agriculture and Industry.	4	3	40	60	100
Elective 4	3P15/3E4/EOI	Economics Of Infrastructure	4	3	40	60	100
Extra disciplinary	3P15/3E/HOS	Hospital Administration	4	3	40	60	100
Soft Skill	3P15/3S/YMB	Yoga and meditation for better living	2	2			
	Total		30	23			

SEMESTER IV

Core: 12	3P15/4C/GDM	Growth and Development Models	6	4	40	60	100
Core: 13	3P15/4C/INT	International Economics	6	4	40	60	100
Core: 14	3P15/4C/EOH	Economics Of Health	6	4	40	60	100
Core: 15	3P15/4C/PRO	Project	6	4	40	60	100
Elective:5	3P15/4E5/EVE	Environmental Economics	4	3	40	60	100
Soft Skill	3P15/4S/EMS	Employability Skills	2	2			
	Total		30	21			

SEMESTER – I

MATHEMATICS FOR ECONOMISTS

Teaching Hours : 90

Credits: 4

**Course Code : 3P15/1C/MAT
3/3/0**

LTP :

OBJECTIVE:

To enable students to understand the application of Mathematical Models to Economic Theories and scientific testing of Economic Theories.

COURSE OUTLINE:

UNIT I: Matrix Algebra and Linear Models-Transpose and Inverse – Determinants and Rank – Test of Non – Singularity –Inverse Matrix – Cramer’s Rule-Nobel Laureate Wassily Leontief (1973) Input – Output Analysis- Hawkins Simon’s Conditions.

20hrs

UNIT II: Differentiation - Partial Differentiation –Second Order – Cross Partial Derivatives- Young’s Theorem

20hrs

UNIT III: Applications of Partial Derivatives in Economics – Extreme Values of Function of Two Variables –Cost and Profit Functions-Lagrangian Function – Jacobian and Hessian.

15hrs

UNIT IV: Elementary Integration Techniques- Indefinite Integrals- Rules of Operation-Definite Integrals- Economic Applications – Derivation of TC and TR from MC and MR-- Consumer’s Surplus- Producer’s Surplus.

15hrs

UNIT V: First Order Difference Equation- General Formula - Stability- The Cobweb Model.

20hrs

SEMESTER – I

STATISTICS FOR ECONOMISTS

Teaching Hours : 90

Credits : 4

Course Code : 3P15/1C/STA

LTP: 3/3/0

OBJECTIVE:

To enable students to understand the application of statistical tools in economic analysis.

COURSE OUTLINE:

UNIT I: Extrapolation and Interpolation- Newton's and Lagrange's Methods only.

15hrs

UNIT II: Probability – Theorems- Addition- Multiplication-Conditional Probability – Bayes' Theorem Mathematical Expectation-Theoretical Distribution– Normal- Binomial and Poisson

20hrs

UNIT III: Index Number – Types of Index Numbers – Construction of Consumer Price Index – Wholesale Price and Production Indices in India.

20hrs

UNIT IV: Analysis of Time Series – Measurement of Trend – Semi Averages, Moving Averages-Method of Least Square-Seasonal Variations-Theory of Estimation – Types and Properties

15hrs

UNIT V: Simple Correlation – Partial Correlation - Multiple Correlation and Regression- Multiple Regression.

20hrs

SEMESTER – I

FINANCIAL ECONOMICS

Teaching Hours :60

Credits: 3

Course Code : 3P15/1E1/FIN

LTP: 4/0/0

OBJECTIVE:

To enable students to understand the working of Money and Capital Market and the Reforms in the Financial Sector.

UNIT I: Capital Market – Primary and Secondary Market Structure

10hrs

UNIT II : Stock Brokers- Underwriters-Depositories -Credit Rating Agencies.

10hrs

UNIT III: Stock Market System – Trading- Listing – Market Efficiency – Pricing – Insider in India – Investor protection.

15hrs

UNITIV : Derivative Markets – Options and Futures - Derivative Market in India – Recent Trends.

15hrs

UNIT V : Stock Market System in India – NSE – SEBI – OTC Online Trading System – Recent Trends in Capital Market Operations.

10hrs

SEMESTER – II

OPERATIONS RESEARCH

Teaching Hours : 75

Credits : 4

Course Code : 3P15/2C/OPE

LTP : 3/2/0

OBJECTIVE:

To enable students to understand the essential quantitative tools to make decision making a rational process and the technique of finding optimal solutions in a Dynamic Business Environment

COURSE OUTLINE:

- UNIT I :** Operations Research – Introduction – Meaning – Scope – Models – Limitations – Formulation – Application in Management Decision Making. 15hrs
- UNIT II:** Nobel Laureate Tjalling Koopmans (1975)Transportation Models – Assignment Models – North West Corner Rule Method – Least cost Entry Method – Vogel’s Approximation Method 15hrs
- UNIT III:** Decision Theory –Certainty- Uncertainty- Use of Probability – Applications – Bayes’ Theorem – Decision Trees. 15hrs
- UNIT IV:** Network Analysis – Construction of the Network – Time and Critical Path Calculations – CPM. 15hrs
- UNIT V:** Queuing Theory –Single Channel-Erlang Model- Number of Customers- – Waiting Line & System – Waiting Time in Line & System-Fundamentals – Uses. 15hrs

SEMESTER – II

STATISTICS WITH COMPUTER APPLICATIONS

Teaching Hours : 75

Credits: 4

Course Code : 3P15/2C/STT

LTP : 3/ 2/0

OBJECTIVE:

To enable students to understand the sophisticated methods of statistical analysis and the analysis of mass data and variables using Statistical Package.

COURSE OUTLINE:

UNIT I : Sampling Methods- Hypothesis Testing, Standard Error – Large Sample Test for Two Means and Standard Deviations – Proportion and Confidence Interval.

15hrs

UNIT II : Test of significance for attributes - Small sample test – t - test – Paired t – test – Chi Square test – z - test

15 hrs

UNIT III: F Test- Analysis of Variance One Way - Two Way Classifications-Design of Experiments- Latin Squares.

15hrs

UNIT IV: Univariate and Multivariate Techniques – Factor analysis

15hrs

UNIT V : Introduction-Statistical Data Files- Statistical Workbook – Installation Data Spreadsheet Toolbar – Scroll Sheet – Applications – Diagrams and Graphs, Elementary Concepts in Statistics-Applications in Computer – Correlation, Regression.

(Practical Examination only. No questions for the End Semester Examination)

15hrs

SEMESTER II

MANAGERIAL ECONOMICS

Teaching Hours : 60

Credits: 3

Course Code : 3P15/2E2/MAN

LTP: 4/0/0

OBJECTIVE:

To enable students to understand the models and Managerial Theories of the Firm and the methods for selecting projects under risk and uncertain conditions.

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

15h

rs

UNIT II: Inventory Management- Types of Inventory - Methods of Inventory control – EOQ, ABC, VED Analysis

10h

rs

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 – Stabilization of the Economy.

15h

rs

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

10h

rs

UNIT V: Economics and Business Forecasting – Economic forecasts – Methods of Economic forecasting – Evaluating forecasts.

10hrs

SEMESTER – II

HEALTH CARE MANAGEMENT

Teaching Hours : 60

Credits: 3

Course Code : 3P15/2E/HEA

LTP: 4/0/0

OBJECTIVE:

To enable students to understand to get an idea about the Health Care Administration and Medical Care.

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 State in Health Care – Privatization and Health Care – Rural Health Care.

15hrs

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

10hrs

UNIT V: First Aid – Need for First Aid – Methods of First Aid – Medical Tourism

15hrs

SEMESTER – III

RESEARCH METHODOLOGY

Teaching Hours : 75

Credits : 4

Course Code : 3P15/3C/RES

LTP :3/2/0

OBJECTIVE:

To enable students to have a clear view about conducting Research in a Scientific Manner.

COURSE OUTLINE:

UNIT I :	Research in Economics - Meaning, Objectives, need and scope- Present position of Research in Economics in India.	10hrs
UNIT II :	Scientific Attitude in Economic Research - Basic elements of Scientific Method Fact, Conceptual and Operational Definitions, Assumptions, Hypotheses- Primary and Secondary data.	10hrs
UNIT III:	Research Design - Meaning and types- Surveys and Sampling- Probability and Non- Probability Sampling Logical- Mathematical and Statistical methods- Case study methods.	20hrs
UNIT IV:	Tools of Research - Participant and Non-Participant Observation- Questionnaire- Interview Schedule-Pilot Study- Pre-Testing.	20hrs
UNIT V :	Report Writing - Plan of Research Report- Style and mechanics of writing Research Reports.	15hrs

SEMESTER – III

ECONOMICS OF INFRASTRUCTURE

Teaching Hours : 60 Credits : 3

Course Code : 3P15/3E4/EOI LTP :4/0/0

Objective:

To enable students to understand the development of infrastructure over the period of time

COURSE OUTLINE:

UNIT 1 : Infrastructure and Economic development – Infrastructure as a Public Good; Social and Physical Infrastructure; special characteristics of Utilities. The Peak –Load, Off- Load problem, Dual Principal Controversy

10 HRS

UNIT II: The Structure of Transport Costs and Location of Economic Activities. Demand Transport . Models of Freight and Passenger Demand. Models Choice; Cost Function in the Transport Sector. Principle of Pricing. Special Problems of Individuals Modes of Transport – Impact on Economic Development

15 HRS

UNIT III : Primacy of Energy in the process of Economic Development – Factors Determining Demand for Energy – Effects of Energy Shortage – Energy Conservation – Renewable and Non – Conventional Sources of Energy – The search for an optimal Energy Policy in the Indian Context.

15 HRS

UNIT IV: Organization and Financing of Services – Private Vs Public Sector Financing – The fixation of prices of social services – Health , Education and Human Development concept – Scope and relevance of Human Resource Development – Education and Economic Growth – Educational Planning – Social Demand – The case for Universal , Free, Primary Education; Structure of Higher education and problems of its financing in India; The issues in education policy – importance of Health and its impact on Economic Development.

10 HRS

UNIT V: Infrastructure in Modern India – Strategies for Infrastructure development – Differences in infrastructure building between China and India - Infrastructure investments in India – Prioritization of Infrastructure sectors for development – Macro perspective of infrastructure development in India – Infrastructure and Plans.

10

HRS

SEMESTER III

YOGA AND MEDITATION FOR BETTER LIVING

Teaching Hours : 30

Credits : 2

Course Code : 3P15/3S/YMB

LTP:2/0/0

UNIT I: Yoga – Introduction – Yoga as a Science of Art - The five elements - The steps to be followed - yoga and health benefits (The physical and Mental) – Theoretical insight into 10 asanas – Pranayama techniques – Surya pranayama – Nadishuddi and Bastrika – Diet – Nutrition and Health – Understanding Human anatomy and Acupressure Points
10 Hrs

UNIT II: Meditation – Introduction – Brain wave patterns – The sub Conscious Mind – Chakras – Anthakarna – Koshas – Receiving universal energy –Goal visualization – The physical body and the etheric body – Positive affirmations – The protective shield .- Emotional Balance – The kundalini shakti
10 Hrs

UNIT III: Practice on 10 Asanas and simplified Physical Exercises – Practical sessions on Meditation – Relaxation Techniques and cleansing of chakras – Practical lessons on few Mudras.
10 Hrs

SEMESTER – III

HOSPITAL ADMINISTRATION

Teaching Hours : 60

Credits : 3

Course Code : 3P15/3E/HOS

LTP : 4/0/0

Objective:

To enable students to understand the theoretical fundamentals of Hospital Administration along with a practical exposure.

COURSE OUTLINE:

- UNIT I :** Definition of Hospital Administration – Administrative Functions – Modern Techniques – Health Care Marketing. 10hrs
- UNIT II :** Accounting Principle – Systems – Budgeting Process- Depreciation. 10hrs
- UNIT III:** Human Resources Planning - Application to Staffing – Management of Doctors Unit - Management of Nursing unit - Supporting unit - Quality of Care. 15hrs
- UNIT IV:** Information and Communication in Hospital Administration – Maintenance of Records-Barriers to Communication. 15hrs
- UNIT V :** Medical Ethics – A Case Study of Private Hospital Administration (Multi Specialty Hospital-Super Hospital-Corporate Hospitals.) 10 Hrs

SEMESTER – IV

INTERNATIONAL ECONOMICS

Teaching Hours : 90

Credits : 4

Course Code : 3P15/4C/INT

LTP : 3/3/0

OBJECTIVE:

To enable students to understand to study the tools and Theories of International Trade and the role of International Organizations on world trade.

COURSE OUTLINE:

UNIT I:	Theories of International Trade- Stolper- Samuelson Theorem- Metzler Paradox- Nobel Laureate Paul Krugman (2008).	20 hrs
UNIT II :	Exchange Control Measures – Objectives – Methods – Determination of Equilibrium Exchange Rate – Theories – Mint Par – Purchasing Power Parity – Balance of Payment Theory.	20hrs
UNIT III:	Balance of Payment – Structure – Disequilibrium – Causes – Remedies– The Absorption Approach – Effects –Foreign Trade Multiplier – Backwash Effects -Dumping- Anti-Dumping methods.	15hrs
UNIT IV:	Foreign Direct Investment - Types – Merits and Demerits – Role and Functions of Multi-National Corporations – Technology Transfer- Impact of Foreign Capital on India’s Economic Development.	15hrs
UNITV :	NAFTA- RTAS- RIAS- North- South Dialogue- South- South Dialogue- EEV- Rybczynski.	20hrs

SEMESTER IV

ECONOMICS OF HEALTH

Teaching Hours : 90

Credits :

4

Course Code : EC15/4C/EOH

LTP

:3/3/0

UNIT: I: Health Economics – Importance of Health Economics – The Principle of the Margin – Efficiency and Equity concept of Economic Evaluation - Different types of Health Economic Evaluation

15HRS

UNIT: II : Four Key Health Concepts – Scarcity and Sacrifice Efficiency – Opportunity Cost – utility – concept of Economic Evaluation – Measuring Benefits and Costs – Resource Allocation Decision in Health Care – An Economists approach to getting NHS Budget- at Macro and Micro Levels.

20 HRS

UNIT: III: Demand for Health Theory and Applications: Basic concepts of the Economic Approach – Health Production Function –Effects of Change in prices – Changes in the technical knowledge.

20HRS

Unit: IV: Health Indicators– Birth Rate , Fertility Rate – Morbidity – Mortality – Disability life style status , DALY, QALYS , Sources – WHO – CSO –NFHS

20 HRS

UNIT: V: Health Insurance – Medical Ethics – Medical Tourism

15HRS