

M.A. ECONOMICS

Programme Specific Outcomes(PSOs)

On successful completion of the M.A. Economics programme, the student will be able to

PSO 1: utilize the acquired knowledge for employment

PSO 2: analyze socio-economic issues in the contemporary world

PSO3: employ quantitative skills for market analysis and research

FROM 2020 BATCH ONWARDS

Sem.	Course Code	Course Title	Course Type	Hrs./Wk.		Credits	Passed in Academic Council	Offered to	Offered by	
				TH	LA					
I	PEC1504CM	ADVANCED MICROECONOMICS	TH	6		5		APECO	ECO	
	PEC1505CM	ADVANCED MACROECONOMICS	TH	6		5		APECO	ECO	
	PEC1506CM	STATISTICS FOR ECONOMICS	TH	6		5		APECO	ECO	
	PEC1402CM	HEALTH ECONOMICS	TH	5		4		APECO	ECO	
	PEC1403CM	PUBLIC FINANCE	TH	5		4		APECO	ECO	
	PGV1001PV	FOUNDATION COURSE ON WOMEN'S STUDIES	TH	2		-				
	PGV1002PV	PERSPECTIVES ON GENDER								
	PIV1001PI	THE BIBLE AND SCIENCE								
TOTAL						30		23		
II	PEC2403CM	DEVELOPMENT ECONOMICS	TH	5		4		APECO	ECO	
	PEC2404CM	MATHEMATICAL ECONOMICS	TH	5		4		APECO	ECO	
	PEC2405CM	FINANCIAL ECONOMICS	TH	5		4		APECO	ECO	
	PEC2301CM	RESEARCH METHODOLOGY	TH	4		3		APECO	ECO	
	PEC2401MO/ PEC2402MO	WELFARE ECONOMICS / DEMOGRAPHY	TH	5		4		APECO	ECO	
	PEC2201EI/ PEC2202EI/ PEC2203EI	ECONOMICS IN EVERYDAY LIFE ECONOMICS OF SOCIAL ISSUES SUSTAINABLE DEVELOPMENT	TH	4	-	2		ALLM (Except Economics students)	ECO	
	PGV2001PV	HUMAN RIGHTS AND DUTIES		2		-				
	PGV2002PV	PRACTICING HUMAN RIGHTS								
	PIV2001PI	RIGHTS, RESPONSIBILITIES AND THE BIBLE								
	TOTAL						30		21	

Sem.	Course Code	Course Title	Course Type	Hrs./Wk.		Credits	Passed in Academic Council	Offered to	Offered by
III	PEC3401CM	MONETARY ECONOMICS	TH	5		4		APECO	ECO
	PEC3402CM	ECONOMETRICS	TH	5		4		APECO	ECO
	PEC3403CM	ENVIRONMENTAL ECONOMICS	TH	5		4		APECO	ECO
	PEC3404CM	AGRICULTURAL ECONOMICS	TH	5		4		APECO	ECO
	PEC3401MO / PEC3402MO / PEC3403TO	ECONOMICS OF SUSTAINABLE DEVELOPMENT / INDUSTRIAL ECONOMICS / GEOSPATIAL ECONOMICS	TH	5		4		APECO	ECO
	PEC3201EI/ PEC3202EI/ PIH3201EI/ PEC3201EP	TAMIL NADU ECONOMY GENDER ECONOMICS CHINA STUDIES DATA VISUALIZATION FOR ECONOMICS	TH LA	4 4		2		APALLH	ECO
	PGV3001PV/ PGV3002PV/ PIV3001PI	BASIC TENETS OF MAJOR RELIGIONS/ CULTURAL HERITAGE AND VALUES IN INDIA / BIBLICAL ETHICS	TH	1		-			
		TOTAL			30		22		
IV	PEC4504CM	INTERNATIONAL ECONOMICS	TH	6		5		APECO	ECO
	PEC4505CM	HISTORY OF ECONOMIC THOUGHT	TH	6		5		APECO	ECO
	PEC4506CM	INDIAN ECONOMIC DEVELOPMENT AND POLICY	TH	6		5		APECO	ECO
	PEC4501CP	COMPUTER APPLICATIONS IN ECONOMICS	LA		5	5		APECO	ECO
	PEC4401CM	PROJECT	PR	5		4		APECO	ECO
	PGV4001PV / PIV4001PI	IN TUNE WITH NATURE / BIBLICAL PERSPECTIVES ON GENDER	TH	2		-			
		TOTAL			30		24		

SELF-LEARNING COURSES

Sem.	Course Code	Course Title	Course Type	Credits	Passed in Academic Council	Offered to	Offered by
All	PEC0201CD	ECONOMICS FROM CHRISTIAN PERSPECTIVE	TH	2		APALLM	ECO
	PEC0202CD	ISSUES IN GLOBAL ECONOMY	TH	2		APALLM	ECO
	PEC0203CD	POLITICAL ECONOMY OF INDIA	TH	2		APALLM	ECO

**PEC1504CM ADVANCED MICROECONOMICS
(THEORY)**

COURSE OUTCOMES:

6 hrs./wk.

On successful completion of the course, the student will be able to

CO1: analyse consumer equilibrium using cardinal and ordinal approaches

CO2: explain profit maximisation in different markets

CO3: explain theories of the firm

CO4: analyse theories of distribution

CO5: apply economics of information for decision making

COURSE CONTENT:

UNIT I: CONSUMER CHOICE

18 hrs.

Indifference curves: decomposition of price effect into substitution effect and income effect – comparative demand curves – Slutsky's and Hicksian demand curves – Consumer surplus: Marshall's and Hicksian measures – Revealed Preference Theorem – Choice under Uncertainty: N-M Index and derivation of marginal utility schedule for money income – inter-temporal choice

UNIT II: MARKET THEORIES

18 hrs.

Perfect competition: price and output determination – optimum firm – Monopoly: Short-run and long-run equilibrium – price discrimination, monopoly control and regulation – contestable market – Monopolistic competition: Chamberlin model – selling costs – excess capacity – Oligopoly: non-collusive models – Cournot – Bertrand – Chamberlin – Edgeworth – Sweezy – Stackelberg – Collusive models: cartels and mergers – price leadership – base point price system

UNIT III: ALTERNATIVE THEORIES OF FIRM

18 hrs.

Duopoly price game: dominant strategy – Nash equilibrium – full cost pricing rule – Bain's limits pricing theory – Sylos-Labini model – input-output model – linear programming applications in decision making

UNIT IV: DISTRIBUTION THEORIES

18 hrs.

Neo-classical approach: marginal productivity theory – product exhaustion theorem – Hick's technical progress – Modern theory of distribution: factor pricing in imperfect product and factor markets – determination of wages – labour supply – role of trade unions and collective bargaining

UNIT V: ECONOMICS OF INFORMATION

18 hrs.

Informational asymmetry: market for lemons – adverse selection – insurance market and adverse selection – solution to principal agent problem – moral hazard – signalling and screening

TEXT BOOK:

Dewett, K.K. & Navalur. M.H. *Modern Economic Theory*. New Delhi: Vikas Publishing House Pvt. Ltd., 2018.

REFERENCE BOOK(S):

Ahuja, H. L. *Advanced Economic Theory: Microeconomic Analysis*. 20th Edition. New Delhi: S. Chand, 2018.

Browning, E. K. and Mark A. Zupan. *Microeconomics: Theory and Applications*. New Jersey: Wiley Publications, 2014.

Felix Munoz-Garcia. *Advanced Economic Theory: An Intuitive Approach with Examples*. Cambridge: MIT Press, 2017.

Gregory Mankiw. *Principles of Microeconomics*. Boston: Cengage Learning India Pvt Ltd., 2012.

Hal R. Varian. *Intermediate Microeconomics*. 9th Edition. New York: W. W. Norton & Company, 2009.

Jinghan M.L. *Microeconomics*. 8th Edition. New Delhi: Vrinda Publications Pvt. Ltd., 2016.

Koutsoyiannis A. *Modern Microeconomics*. 2nd Edition. UK: Palgrave Macmillan, 1979.

Robert Pindyck & Daniel L. Rubinfeld. *Microeconomics*. 9th Edition. London: Pearson Education, 2017.

CLASS	I M.AECONOMICS – SEMESTER I
Cognitive Level	K-1 Remember
	K-2 Understand
	K-3 Apply
	K-4 Analyse
	K-5 Evaluate

MAPPING: COs consistency with PSOs

PEC1504CMADVANCED MICROECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	2	3	0
CO2	2	3	1
CO3	2	2	0
CO4	2	2	0
CO5	2	3	1

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation

PEC1505CM ADVANCED MACROECONOMICS (THEORY)

COURSE OUTCOMES:

6 hrs./wk.

On successful completion of the course, the student will be able to

CO1: recognise the significance of macroeconomic concepts and indicators

CO2: analyse financial instabilities and methods for revival

CO3: develop a critical perspective of the new classical approach

CO4: identify policies for economic stability

CO5: examine policy implications of the Keynesian approach

COURSE CONTENT:

UNIT I: NATIONAL INCOME AND SOCIAL ACCOUNTING

18 hrs.

National Income and related concepts – methods of measuring national income – green GDP – problems of measuring national income – circular flow of income in two, three and four-sector economy – social accounting – meaning – importance – components – difficulties of social accounting

Self-study: Methods and problems of measuring national income, Circular flow of income, Social Accounting

UNIT II: MODERN KEYNESIAN MACROECONOMICS **18 hrs.**

Central propositions of Keynesian –Mundell-Fleming model– Minsky’s financial instability hypothesis– the great recession and the revival of Keynesian Macroeconomics

Self-study: Mundell-Fleming model, Minsky’s financial instability hypothesis ,The great recession and the revival of Keynesian macroeconomics

UNIT III: NEW CLASSICAL MACROECONOMICS **18 hrs.**

Rational expectation hypothesis–policyineffectiveness theorem– aggregate supply hypothesis– policy implications of new classical approach

Self-study: Policy ineffectiveness theorem, Aggregate supply hypothesis, policy implications of new classical approach

UNIT IV: REAL BUSINESS CYCLE THEORY **18 hrs.**

Realbusiness cycle theory–source of productivity shocks –stabilisation policy and unemployment– role of money –policy implications

Self-study: Real Business Cycle Theory, Stabilisation Policy and Unemployment, Role of money in Real Business Cycle Theory

UNIT V: NEW KEYNESIAN MACROECONOMICS **18 hrs.**

New Keynesian Macroeconomics–core propositions–wage and price rigidities – new Keynesian businesscycle theory– policy implications

Self-study: Core propositions of new Keynesian macroeconomics, New Keynesian businesscycle theory, Policy implications of new Keynesian macroeconomics

TEXT BOOK:

Mankiw, N.G.& Mark P. Taylor. *Macroeconomics*. 4thEdition. New Delhi: Worth Publishers, 2017.

REFERENCE BOOK(S):

Ahuja, H.L. *Macroeconomics: Theory & policy*. 20thEdition. New Delhi: S. Chand & Company, 2019.

Dewett, K.&Navalur. *Modern Economic Theory*. New Delhi: S. Chand & company, 2010

Rudiger,Dornbusch, Stanley Fischer, & Richard Startz. *Macroeconomics*.12thEdition.NewDelhi:Tata McGraw-Hill Education, 2018.

Mueller M.G. *Readings in Macroeconomics*, 2ndEdition. New Delhi:Surjeet Publications, 1978

Roger E.A. Farmer, *Macroeconomics*, South-Western; 2nd revised Edition, 2001

PEC1505CMADVANCED MACROECONOMICS	
CLASS	I M.AECONOMICS –SEMESTER I
Cognitive Level	K-1Remember
	K-4Analyze
	K-5Evaluate
	K-4Analyze
	K-2Understand

MAPPING: COs consistency with PSOs

PEC1505CMADVANCED MACROECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	3	1	3
CO2	1	3	3
CO3	2	3	3
CO4	1	3	3
CO5	1	3	2

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

PEC1506CM STATISTICS FOR ECONOMICS

(THEORY)

COURSE OUTCOMES:

6hrs./wk.

On successful completion of the course, the student will be able to

CO1: relate the statistical concepts, methods and techniques to Economics

CO2: use statistical measures to describe the characteristics of data and its spread

CO3: establish cause and effect relationship to facilitate prediction

CO4: apply selected probability and theoretical distributions for research

CO5: test a hypothesis with statistical evidence

UNIT I: STATISTICAL INVESTIGATION AND PRESENTATION OF DATA

18hrs.

Data – types of data variables – primary and secondary data – sampling –sampling methods – randomized experiments –census vs. sample methods – classification of data –tables – principles of table construction – creating a frequency distribution – graphic representation of data – bar charts – pie charts – histogram – line graphs – box plots – ogives

UNIT II: DESCRIPTIVE STATISTICS AND DISPERSION

18hrs.

Measures of central tendency – mean, median and mode –use of various measures of average – measures of dispersion – range – quartile deviation – standard deviation – variance – co-efficient of variation – skewness – kurtosis

UNIT III: CORRELATION, REGRESSION AND TIME SERIES ANALYSIS

18hrs.

Correlation: definition – types – Karl Pearson’s correlation co-efficient – Spearman’s rank correlation – Linear regression analysis: simple– moving averages and time series smoothing – fitting trend – forecasting

UNIT IV: PROBABILITY AND THEORETICAL DISTRIBUTIONS

18hrs.

Probability: definitions– addition and multiplication theorem – conditional probability – Bayes’ theorem – mathematical expectation – random variable – Probability distribution: discrete and continuous – Theoretical distributions: binomial, poisson and normal – properties – fitting of theoretical distributions –importance of theoretical distributions

UNITV: HYPOTHESIS TESTING**18hrs.**

Sampling distribution – law of large numbers and central limit theorem – Estimation: types of estimates – criteria of a good estimator – hypothesis testing procedure – one tailed and two tailed tests – types of errors – p values – Parametric hypothesis testing: t, z, F tests and one-way ANOVA test – Non-parametric hypothesis testing: chi square test of association

TEXT BOOK:

Gupta, S.P. *Statistical Methods*. 45th Revised Edition. New Delhi: S. Chand, 2017.

REFERENCE BOOK(S):

Aggarwal Y.P. *Statistical Methods: Concepts Application and Computation*. New Delhi: Sterline Publishers Private Ltd., 2012.

Davis, Glyn and Branko Pecar. *Business Statistics - Using Excel*. New York: Oxford University Press, 2010.

Kanji, Gopal K. *100 Statistical Tests*. London: Sage Publications, 2006.

Speigal, M.R. *Theory and Problems of Statistics*. London: McGraw Hill Book Co., 1992.

Whigham, David. *Business Data Analysis Using Excel*. New York: Oxford University Press, 2007.

Wonnacott, Thomas H and Ronald J Wonnacott. *Introductory Statistics*. 5th Edition. New York: John Wiley & Sons, 1990.

PEC1506CM STATISTICS FOR ECONOMICS	
CLASS	I M.A. ECONOMICS – SEMESTER I
Cognitive Level	K-1Remember
	K-3Apply
	K-4Analyze
	K-3Apply
	K-4Analyze

MAPPING: COs consistency withPSOs

PEC1506CM STATISTICS FOR ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	2	2	2
CO2	2	2	2
CO3	2	3	2
CO4	2	2	2
CO5	2	2	2

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

PEC1402CM HEALTH ECONOMICS

(THEORY)

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

- CO 1: identify applications of economic concepts in health
- CO 2: compute health indices for different aspects of health
- CO 3: analyse economic principles to make decisions for public health
- CO 4: explain health related behaviour from an economic perspective
- CO 5: recognise health challenges in developing countries

COURSE CONTENT:

UNIT I: HEALTH ECONOMICS – BASIC CONCEPTS

15 hrs.

WHO definition – dimensions of health – meaning –importance –determinants – input and output indicators of health

UNIT II: HEALTH AND DEVELOPMENT

15 hrs.

Income and health linkages –wellbeing – PQLI and HDI – poverty and health – occupational health hazards – fertility, morbidity, mortality and life expectancy – nutrition and health – malnutrition – under-nutrition

UNIT III: HEALTH AS INVESTMENT

15 hrs.

Economics of public health – education and health – disease control priorities– capital formation in health care

UNIT IV: MICRO-ECONOMICS OF HEALTH SERVICES

15 hrs.

Demand for health services – preference for health care and health cure – income and price effects – physician as a price-discriminating monopolist – health production function with illustration

UNIT V: HEALTH IN DEVELOPING COUNTRIES

15 hrs.

Significance of health in LDCs – measuring the burden of disease – the concepts DALY and QALYs – challenges for the future

TEXTBOOK:

Stephen Morris, Nancy Devlin and David Parkin. *Economic Analysis in Health Care*. New Jersey: Wiley Dream Tech India Pvt Ltd, 2009.

REFERENCE BOOK(S):

AlistairMcGuire, John Henderson & Gavin Mooney. *The Economics of Health Care: An Introductory Text*. London and New York: Routledge and Kegan Paul, 1988.

Asha, A. Bhende and Tara Kanitkar. *Principles of Population Studies*. New Delhi: Himalaya Publishing House, 2015.

IDFC Rural Development Network. *India Rural Development Report 2012/13*. New Delhi: Orient BlackSwan, 2013.

James, W.Henderson. *Health Economics and Policy*. Boston: Cengage Learning, 2011.

Jean Dreze and AmartyaSen. *Indian Economic Development and Social Opportunity*.Oxford: Oxford University Press, 1998.

Michall, H. Cooper and Antony J. Culyer, *Health Economics* Baltimore: Penguin Books Inc. Tamil Nadu State Council for Higher Education 27, 1973

Park, K. *Park's Textbook of Preventive and Social Medicine*. 25th edition. Jalalpur: M/s BanarsidasBhanot Publishers, 2019.

PushpalataPattnaik. *Health Economics*. New Delhi: Black Prints, 2013.

SomkidKaewsonthi and Alan G. Harding. *Micro Economic Analysis and Applications in the Health Sector*, Students Guide. Chulalongorn University: The Centre for Health Economics Faculty of Economics, 1993.

William Jack, *Principles of Health Economics for Developing Countries*. Washington.D.C. WBI development studies, The World Bank, 1999.

World Bank, *WorldDevelopment Report Investing in Health, World Development Indicators*. Oxford: Oxford University Press, 1993

World Bank. *Better Health Systems for India's Poor. Findings, Analysis and Options. Human Development Network. Health, Nutrition and Population Series*. The World Bank Washington, 2002.

PEC1402CM HEALTH ECONOMICS	
CLASS	I M.A. ECONOMICS – SEMESTER I
Cognitive Level	K-1Remember
	K-3 Apply
	K-4 Analyze
	K-2 Understand
	K-2 Understand

MAPPING: COs consistency with PSOs

PEC1402CM HEALTH ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	2	3	1
CO2	2	1	1
CO3	2	3	1
CO4	2	3	1
CO5	2	1	2

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

PEC1403CM PUBLIC FINANCE

(THEORY)

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

CO1: recall the basic concepts and the principles of public finance

CO2: appraise the theories of public expenditure

CO3: explain the sources of public revenue

CO4: analyse the public debt of an economy

CO5: apply fiscal policy for a developing economy

- UNIT I: INTRODUCTION** **15 hrs.**
 Role of public finance – fiscal functions – private and public goods – mixed goods –merit goods – social goods – market failure – public goods and externalities
- UNIT II: PUBLIC EXPENDITURE** **15 hrs.**
 Theories of public expenditure – Musgrave – Wagner – Peacock-Wiseman hypothesis – growth of public expenditure – canons and effect of public expenditure
- UNIT III: TAXATION AND PUBLIC DEBT** **15 hrs.**
 Direct and indirect taxation – canons and principles of taxation – modern theory of incidence – Public debt:classification and sources – principles – burden –methods of repayment
- UNIT IV: FISCAL POLICY AND FISCAL FEDERALISM** **15 hrs.**
 Fiscal policy:Objectives and instruments–compensatory fiscal policy –economic stability and growth– effectiveness– fiscal federalism – role of finance commission – principles – recommendations of the current Finance Commission – transfer of resources from union and states and states to local bodies
- UNIT V: INDIAN PUBLIC FINANCE** **15 hrs.**
 Financial autonomy in India – tax reform proposals of Kelkar committee – tax structure and working of fiscal federalism in India – resource transfer from union to state of Tamil Nadu – GST, implementation and impact – fiscal responsibilities of central and state – FRBM Act 2003 –central and state government budgets – issues of fiscal deficit – fiscal policy in India

TEXT BOOK:

Tyagi, B.P. *Public Finance*.Jai Prakash Nath & Co., 2019.

REFERENCE BOOK(S):

Bagchi, A.*Readings in Public Finance*.NewDelhi:Oxford University Press, 2005.

Ministry of Finance. Government of India.*Economic Survey* (Annual issues). New Delhi: Tamil Nadu State Council for Higher Education.

HarveyRosen& Ted Gayer.*Public Finance*.10th Edition. New York:McGraw Hill, 2013.

Rao,M.G.& SinghN.*The Political Economy of Federalism in India*. New Delhi: Oxford India Paperbacks, 2006.

Musgrave, R.A. &MusgraveP.B. *Public Finance in Theory and Practice*. 5th Edition. Tokyo: McGraw-Hill, 2017.

PEC1403CM PUBLIC FINANCE	
CLASS	I M.A. ECONOMICS – SEMESTER I
Cognitive Level	K-1Remember
	K-5Evaluate
	K-2Understand
	K-4Analyze
	K-5Evaluate

MAPPING: COs consistency with PSOs

PEC1403CM PUBLIC FINANCE			
CO / PSO	PSO		
	1	2	3
CO1	1	1	0
CO2	2	2	1
CO3	3	1	1
CO4	3	1	1
CO5	3	0	0

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

**PEC2403CM DEVELOPMENT ECONOMICS
(THEORY)**

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: demonstrate an understanding of the concepts of economic growth and development
- CO2: explain the current economic phenomena based on the theories of economic development
- CO3: examine contemporary theories
- CO4: analyze issues related to distribution
- CO5: inquire into the effectiveness of various development policies

UNIT I: INTRODUCTION

15 hrs.

Conceptualizing development: GNP as development indicator – Sen’s capabilities approach to development – PQLI – the Human Development Index – Happiness Index– Green Index– the structural characteristics of developing economies – Factors of development: capital accumulation, labour, natural resources, technological progress, social institutions, cultural values and entrepreneurial ability

UNIT II: THEORIES OF DEVELOPMENT

15 hrs.

Development as growth: Harrod-Domar model – Rostow’s stages of growth theory – Lewis theory – balanced and unbalanced growth – Neo-classical growth theory, Solow Model – Big Push – Schumpeter’s theory of innovation

UNIT III: CONTEMPORARY THEORIES OF DEVELOPMENT

15 hrs.

Romer model – Kremer’s O-Ring theory – dependency theory – QWERTY – Geography and development – Krugman’s theory

UNIT IV: POVERTY, INEQUALITY AND HUMAN CAPITAL

15 hrs.

Measurement of inequality and poverty: Inverted-U hypothesis – causes of inequality – Measures: the human capital approach to education and development – social and private benefits of education– Health system in development.

UNIT V: POLICIES FOR DEVELOPMENT

15 hrs.

Role of state in development – market failure, state failure and development – Trade Policy in development: import substitution, export promotion, fiscal policy.

TEXT BOOK:

Taneja M.L. & Myer R.M. *Economics of Development and Planning*. Modified Edition. New Delhi: Vishal Publishing Co., 2015.

REFERENCE BOOK(S):

Ahuja, H.L. *Development Economics*. Bengaluru: S.Chand, 2016.

Chakravathy, S. *Development Planning: The Indian Experience*. Oxford: Clarendon Press, 1998.

Debraj Ray. *Development Economics*. New Delhi: Oxford University Press, 2009.

Jagdish Bhagwati. *Economic of Underdeveloped Countries*. New Delhi: AITBS, 2004.

Jhingan, M.L. *The Economics of Development and planning*. New Delhi: Vrinda Publications Pvt. Ltd., 2019.

Jones, H.G. *An Introduction to Modern Theories of Economic Growth*. Tokyo: McGraw-Hill, 2016.

John Kenneth Galbraith. *Economic Development in Perspective*. 1st Edition. Cambridge: Harvard University Press, 2017.

Jomo, K.S. & Ben. *The New Development Economics*. 5th Edition. London: Zes Books, 2007.

Little. *Economic Development: Theory, Policy and International Relations*. New York: Basic Books, 1982.

Meier, G.M. *Leading Issues in Economic Development*. New York: Oxford University Press, 2005.

Michael, P. Todaro & Stephen C. Smith. *Economic Development*. Singapore: Pearson Education, 2015.

Sen, A.K. *Growth Economics*. London: Penguin Books, 1971.

Thirlwall, A.P. *Growth and Development*. London: Macmillan, 2011.

Yujiro Hayami. *Development Economics*. New Delhi: Oxford University Press, 2005.

PEC2403CMDEVELOPMENT ECONOMICS	
Class	I M.A. Economics - Semester II
Cognitive Level	K-2 Understand
	K-2 Understand
	K-3 Apply
	K-4 Analyze
	K-4 Analyze

Mapping: COs consistency with PSOs

PEC2403CM DEVELOPMENT ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	1	2	1
CO2	1	2	1
CO3	1	1	1
CO4	1	2	1
CO5	1	2	1

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

**PEC2404CM MATHEMATICAL ECONOMICS
(THEORY)**

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: apply matrix algebra in input-output models
- CO2: make use of differential calculus for optimization
- CO3: apply optimization techniques to draw inferences on demand and production
- CO4: examine the behavior of firms under different market conditions
- CO5: probe economic problems using Linear Programming and Game Theory

COURSE CONTENT:

UNIT I: STATIC EQUILIBRIUM ANALYSIS

15 hrs.

Ingredients of an Economic model – relations and functions of two or more variables in Economics – partial market equilibrium – method of elimination – simultaneous linear equations – Cramer's rule using determinants – properties of determinants– matrix operations – addition, subtraction, scalar multiplication, transpose and inverse – solving a system of linear equations using matrix inverse method – Input-output analysis – assumptions, uses and limitations

UNIT II: COMPARATIVE STATIC ANALYSIS

15 hrs.

Differential Calculus – derivatives of a function in two or more variables – total and partial derivatives – rules of first and second order derivatives – marginal values, elasticity and growth rate of a function and shape of graph of the function – optimum values of a function in two or more variables – first and second order conditions – Lagrangian multiplier method of constrained optimization

UNIT III: THEORY OF DEMAND AND PRODUCTION

15 hrs.

Utility function – marginal utility – consumer's equilibrium – proportionality rule – marginal rate of substitution – properties of indifference curves – Slutsky's equation – separation of price effect into income and substitution effect– production function – marginal product – iso-quant – marginal rate of technical substitution – expansion path – elasticity of substitution – properties of homogeneous production function, application of Euler's theorem to the marginal productivity theory of distribution – Cobb-Douglas production function – properties, uses and limitations

UNIT IV: THEORY OF FIRM AND DYNAMIC ANALYSIS

15 hrs.

Cost function – marginal, average and total – normal cost conditions – revenue functions – marginal, average and total – normal revenue conditions – profit maximization under perfect competition and monopoly–dynamics and integration – indefinite integrals – definite integrals – improper integrals – consumers' and producers' surplus – Domar growth model

UNIT V: LINEAR PROGRAMMING AND GAME THEORY

15 hrs.

Introduction – general format of LPP – formulation of LPP – graphical method – dual problem –basic concepts – two-person zero sum game – pure and mixed strategies – graphical solution of $m \times 2$ game and $2 \times n$ game

TEXT BOOK:

Chiang, A. C. *Fundamental Methods of Mathematical Economics*. 4th Edition. New Delhi: McGraw-Hill, 2013.

REFERENCE BOOK(S):

Allen, R.G.D. *Mathematical Economics*. London: Macmillan, 2008.

Anthony, M. & Biggs N. *Mathematics for Economics and Finance*. Cambridge: Cambridge University Press, 1996.

Blume, Carl P. Simon & Lawrence. *Mathematics for Economists*. New Delhi: W. W. Norton and Company, 2010.

Edward, T. Dowling. *Schaum Outline Series of Theory and Problems of Mathematics for Economists*. New Delhi: McGraw Hill Book Company, 2011.

Geoff Renshaw. *Maths for Economics*. London: OxfordUniversity Press, 2009.

Henderson J.M. & QuandtR.E. *Micro Economic Theory: A Mathematical Approach*. New Delhi: McGraw-Hill Kogukusha Ltd., 2003.

Jean, E.Weber. *Mathematical Analysis: Business and Economic Applications*. New Delhi: Harper International Edition, 1982.

Koutsiyannis, A. *Modern Micro Economics*. New York: Macmillan, 2002.

Lancaster K. *Mathematical Economics*. New York: Macmillian, 1998.

Mehta, B.C. & Madnani G.M.K. *Mathematics for Economists*. 9thEdition. New Delhi: Sultan Chand & sons, 2015.

PEC2404CMMATHEMATICAL ECONOMICS	
Class	I M.A. Economics - Semester II
Cognitive Level	K-3 Apply
	K-3 Apply
	K-3 Apply
	K-4 Analyze
	K-4 Analyze

Mapping: COs consistency with PSOs

PEC2404CMMATHEMATICAL ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	1	1	0
CO2	1	1	1
CO3	2	2	2
CO4	2	2	2
CO5	2	2	3

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

**PEC2405CM FINANCIAL ECONOMICS
(THEORY)**

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: recall the concepts and theories of capital markets
- CO2: recognise the theoretical perspectives of efficiency in selection of shares
- CO3: relate the conditions of uncertainty and risk for utility maximization in share markets
- CO4: demonstrate an understanding of diversification and portfolio choices
- CO5: identify the use of different derivatives to manage investment risks

COURSE CONTENT:

UNIT I: INTRODUCTION TO FINANCIAL MARKETS

15 hrs.

Financial markets – types – consumption and investments with and without capital markets – Fisher separation theorem

UNIT II: THEORY OF SEARCH

15 hrs.

Economics of search – Stigler's model – Stiglitz's model – efficient market hypothesis – random walk hypothesis – expected return theory – types of efficient market hypothesis – asymmetric information – adverse selection – moral hazard – market signalling

UNIT III: RISK AND THEORY OF UNCERTAINTY

15 hrs.

Risk – types of risk – sources of risk – currency risk, fixed income risk, equity risk, commodity risk, market risk – measurement – theory of uncertainty – axioms of choice under uncertainty – utility functions – expected utility theorem – certainty equivalence – measures of risk – absolute and relative risk aversions – stochastic dominance – first order stochastic dominance – Second order stochastic dominance

UNIT IV: PORTFOLIO THEORY

15 hrs.

Risk and return – measuring portfolio return and risks – effect of diversification – optimal portfolio choice – Harry Markowitz model – Sharpe model and the portfolio theory – Capital Asset Pricing Model – capital market line – security market line – multi period models – pricing theory – Risk Neutral pricing – Black-Scholes pricing

UNIT V: FINANCIAL DERIVATIVES

15 hrs.

Derivatives – kinds of financial derivatives – forwards, futures, options, swaps – forward and future contracts and markets – European and American options – put-call parity

TEXT BOOK(S):

Copeland, T.E., Weston J.F. & Kuldeep Shastri. *Financial Theory and Corporate Policy*. 4th Edition. New York: Addison Wesley, 2003.

Rustagi, R.P. *Investment Analysis and Portfolio Management*. 4th Edition. New Delhi: Sultan Chand & Sons, 2013.

REFERENCE BOOK(S):

Frank Fabozzi, Edwin H. Neave & Guofu Zhou. *Financial Economics*. 1st Edition. New Jersey: John Wiley & Sons, 2012.

Gordon E. and K. Natarajan. *Financial Markets and Services*. 9th Edition. Mumbai: Chandra Publication, 2018.

Houthakker, H.S. and P.J. Williamson. *Economics of Financial Markets*. New York: Oxford University press, 1996.

Huang and Litzenberger. *Foundations for Financial Economics*. New York: Prentice Hall, Inc., 1988.

Hull, J. *Options, Futures and other Derivatives*. 5thEdition. US: Prentice Hall, 2002.

Panjer, H.H. *Financial Economics: with applications to investment, insurance and Pensions*. New Delhi: Actuarial Foundation, 1998.

Richard, A. Brealey, Stewart C. Myers, Franklin Allen and Pitabas Mohanty. *Principles of Corporate Finance*. 11thEdition. New York: McGraw Hill Education, 1997.

PEC2405CM FINANCIAL ECONOMICS	
Class	I M.A. Economics - Semester II
Cognitive Level	K-1 Remember
	K-2 Understand
	K-2 Understand
	K-3 Apply
	K-3 Apply

Mapping: COs consistency with PSOs

PEC2405CM FINANCIAL ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	1	1	0
CO2	2	3	2
CO3	2	3	2
CO4	2	3	2
CO5	2	3	2

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

PEC2301CM RESEARCH METHODOLOGY

(THEORY)

COURSE OUTCOMES:

4 hrs./wk.

On successful completion of the course, the student will be able to

CO1: identify various research methods for social sciences

CO2: define a research problem

CO3: select a suitable research technique

CO4: validate a research hypothesis

CO5: prepare a project report

COURSE CONTENT:

UNIT I: INTRODUCTION TO RESEARCH

12 hrs.

Research – meaning – significance of research in social sciences – types of research – research process –induction and deduction – research ethics

UNIT II: SURVEYING THE LITERATURE AND DEFINING THE RESEARCH PROBLEM 12 hrs.

Review of literature – importance – sources – research reading – preparing an outline for the review – abstracting the review – identifying research gap – locating and formulating research problem – criteria in selecting research problem – defining and delimiting research problem

UNIT III: METHODS OF RESEARCH, SAMPLING TECHNIQUES AND DATA COLLECTION 12 hrs.

Methods of research – scientific – historical – exploratory – experimental – case study – survey method – field study – data collection – primary and secondary data – sources – methods of data collection – schedule and questionnaire – Sampling: probability vs. non-probability sampling

UNIT IV: RESEARCH HYPOTHESIS AND ANALYSIS OF DATA 12 hrs.

Hypothesis: meaning – characteristics– types – procedure – hypothesis testing –scaling techniques – construction of scale – criteria for a good scale –Likert’s summated scale – Thurstone scale - reliability – validity – standardization process

UNIT V: REPORT WRITING 12 hrs.

Mechanics of report writing– citations – footnotes and references – bibliography – use of quotations – appendix – plagiarism– layout of the report

TEXT BOOK:

Kothari, C. R.& Gaurav Garg. *Research Methodology: Methods and Techniques*.4thEdition. New Delhi: New Age International Publishers, 2019.

REFERENCE BOOK(S):

Earl, Babbie. *The Practice of Social Research*.13th Edition. USA: Wedsworth Publishing Company, 2012.

Elhance, D. N., Elhance Veena and AggarwalB.M. *Fundamentals of Statistics*. New Revised Edition. New Delhi: Kitab Mahal, 2018.

Ghosh, B.N. *Scientific Methods and Social Research*.4th Edition. New Delhi: Sterling Publisher privateLtd, 2012.

Goode, W.J. and Hatt. *Methods in Social Research*. New York: McGraw-Hill, 1952.

Gupta, C.B. and Vijay Gupta. *An Introduction to Statistical Methods*.23rd Edition. New Delhi: Vikas Publishing House, 2004.

Kenneth, D. and Bailey. *Methods of Social Research*.4th Edition. New York: Macmillan, 1994.

Ramadass, P.& Wilson Aruni A. *Research and Writing: Across the Disciplines*. Chennai: MJP Publishers, 2014.

Wilkinsons, T.S.& Bhandarkar P.L. *Methodology and Techniques of Social Research*.6th Edition. New Delhi. Himalaya Publishing House, 2016.

Zikmund William, G. *Business Research Methods*.7thEdition. New Delhi: South-Western College Publishing,2003.

PEC2301CM RESEARCH METHODOLOGY	
Class	I M.A. Economics - Semester II
Cognitive Level	K-3 Apply
	K-1 Remember
	K-3 Apply
	K-5 Evaluate
	K-6 Create

Mapping: COs consistency with PSOs

PEC2301CM RESEARCH METHODOLOGY			
CO / PSO	PSO		
	1	2	3
CO1	2	2	0
CO2	3	2	0
CO3	3	3	0
CO4	3	3	3
CO5	2	3	3

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

PEC2401MO WELFARE ECONOMICS

(THEORY)

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

CO1: relate normative Economics to welfare

CO2: summarize Pigou's welfare Economics

CO3: describe the criteria for social welfare

CO4: interpret the compensation criteria in welfare

CO5: recognise the theories of social choice

UNIT I: INTRODUCTION TO WELFARE ECONOMICS

15 hrs.

Nature of Welfare Economics – Economics and general welfare– positive and normative economics — welfare economics as a normative study – value judgements – classical and Marshallian Welfare Economics

UNIT II: PIGOVIAN WELFARE ECONOMICS

15 hrs.

Pigovian welfare conditions– analysis of externalities – causes of divergence between private and social costs and benefits – Pigou's ideal output

UNIT III: CRITERIA FOR SOCIAL WELFARE

15 hrs.

Growth of GNP as a criterion of welfare – Bentham's criterion – cardinalist criterion – Pareto optimality criterion – theory of second best – Maximisation of social welfare: production possibility curve – grand utility possibility curve – point of constrained bliss – Arrow's impossibility theorem

UNIT IV: COMPENSATION PRINCIPLE**15hrs.**

Compensation criteria of Kaldor and Hicks – difference between Kaldor and Hicks compensation principle – Scitovsky paradox – double criterion – Little’s criterion

UNIT V: SOCIAL CHOICE**15 hrs.**

Bergson-Samuelson social welfare function – Types of social welfare functions: Yew-Kwang’s utilitarian, egalitarian and Rawlsian SWFs – Resolving Arrow’s Paradox: single peaked preferences – Sen’s liberal paradox

TEXT BOOK:

Koutsoyiannis, A. *Modern Microeconomics*. 2nd Edition. UK: Palgrave Macmillan, 1979.

REFERENCE BOOK(S):

Arrow, K.J. *Social Choice and Individual Values*. New Haven: Yale University Press, 2012.

Baumol, W.J. *Welfare Economics*. UK: Edward Elgar Publishing Ltd., 2004.

Broadway, R.W. and Bruce N. *Welfare Economics*. Oxford: Basil Blackwell, 2007.

Dewett, K.K. & Navalur M. H. *Modern Economic Theory*. New Delhi: Vikas Publishing House Pvt. Ltd., 2018.

Duesenberry, J.S. *Income Saving and the Theory of Consumer Behaviour*. Cambridge: Harvard University Press, 2017.

Jhingan, M.L. *Advanced Economic Theory*. New Delhi: Vrinda publications Pvt. Ltd., 2019

Sen, A. *Inequality Re-examined*. New Delhi: Oxford University Press, 2003.

Sen, A. *The Argumentative Indian: Writings on Indian History, Culture and Identity*. England: Clays Ltd., 2019.

Yew Kwang, N.G. *Welfare Economics: Introduction and Development of Basic Concepts*. London: Macmillan, 2016.

PEC2401MOWELFARE ECONOMICS	
Class	I M.A. Economics - Semester II
Cognitive Level	K-2 Understand
	K-2 Understand
	K-2 Understand
	K-3 Apply
	K-2 Understand

Mapping: COs consistency with PSOs

PEC2401MOWELFARE ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	1	1	0
CO2	1	1	0
CO3	2	2	0
CO4	2	2	0
CO5	2	2	0

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

**PEC2402MO DEMOGRAPHY
(THEORY)**

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: identify concepts in population studies
- CO2: explain fertility and mortality differentials
- CO3: analyse population structure and its characteristics
- CO4: examine population growth and distribution in India
- CO5: summarize population policies and their impact

COURSE CONTENT:

UNIT I: INTRODUCTION

15 hrs.

Population Studies: nature and scope, concepts and definitions – population studies and demography – development of population studies in the world and India – inter-relationship between population studies and other disciplines – sources of population data – population census – sample surveys – dual reporting system, population registers and international publications – population trends – world, developing and developed countries

UNIT II: POPULATION DYNAMICS

15 hrs.

Fertility: concepts – Factors affecting fertility: physiological factors, social and cultural factors – proximate determinants of fertility – basic measures of fertility – Mortality: concepts – mortality differentials – Measures of mortality: infant mortality, child mortality and maternal mortality – components of infant mortality – levels and trends in mortality rates – Global HIV/AIDS

UNIT III: POPULATION STRUCTURE AND CHARACTERISTICS

15 hrs.

Age and sex structure of various countries – population pyramid – aging population – marital status – literacy and educational attainment – religious and social stratification of population – Migration: internal and international – sources – measures – direct and indirect methods – Everett Lee's Conceptual Framework for migration analysis

UNIT IV: POPULATION GROWTH AND DISTRIBUTION

15 hrs.

India's population growth – trends and differentials in state and union territories – factors responsible for rapid population increase in India – current population situation and future prospects – basic measures of population distribution

UNIT V: POPULATION POLICY

15 hrs.

Types of population policies – mortality, fertility and migration influencing policies – India's population policy – family planning programme under various five-year plan periods – approaches – Reproductive and Child Health Approach – World Population Plan of Action – millennium development goals – sustainable development goals

TEXT BOOK:

BhendeAsha A.& Tara Kanitkar.*Principles of Population Studies*. Mumbai: Himalaya Publishing House, 2019.

REFERENCE BOOK(S):

Baskar D. Misra. *An Introduction to the Study of Population*. Madras: South Asian Publishers Pvt. Ltd, 1980.

Bogue, Donald J. *Principles of Demography*. New York: John Wiley and Sons, 1969.

Desai B. and JainS. P. *Studies in Demography*. Chapel Hill: University of North Carolina Press, 1970.

Hans Raj. *Fundamentals of Demography*. New Delhi: Surjeet Publications,2014.

Jhingan, MI Bhatt, B.K & Desai, Jn. *Demography*. New Delhi: Vrinda publications Pvt. Ltd, 2014.

Malthus, Ghosh. *An Essay on the Principle of Population*. New Delhi: Atlantic Publications, 2011. .

Peter Cox. *Demography*. 5th Edition. Cambridge: Cambridge University Press, 1976.

Pichat, Jean Bourgeois. *Main Trends in Demography*. London: Allen and Unwin, 1973.

Premi, Ramanamma, Bambawale. *An Introduction to Social Demography*. Noida: Vikas Publishing House, 1983.

Sharma, Rajendran K. *Demography and Population Problems*. New Delhi: Atlantic Publications, 2020.

Sinha, Zachariah. *Elements of Demography*. New Delhi: Allied Publications Pvt Ltd, 1984.

Srinivastava. *A Textbook of Demography*. New Delhi: Vikas Publishing House, 2005.

PEC2402MO DEMOGRAPHY	
Class	I M.A. Economics - Semester II
Cognitive Level	K-2 Understand
	K-2 Understand
	K-4 Analyze
	K-4 Analyze
	K-2 Understand

Mapping: COs consistency with PSOs

PEC2402MO DEMOGRAPHY			
CO / PSO	PSO		
	1	2	3
CO1	0	2	1
CO2	0	2	0
CO3	0	2	0
CO4	1	2	2
CO5	0	2	2

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1) No Correlation (0)

**PEC2201EI ECONOMICS IN EVERYDAY LIFE
(THEORY)**

COURSE OUTCOMES:

4 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: demonstrate the need to make rational choices
- CO2: make use of economic concepts to attain consumer equilibrium
- CO3: examine social institutions from an economic perspective
- CO4: analyze the economic effects of social evils
- CO5: recognise the economic gains of entertainment

COURSE CONTENT:

UNIT I: BEHAVIOURAL ECONOMICS

12 hrs.

Introduction – bounded rationality – rational decision making – rule of thumb and heuristics – prospect theory – self-interest and social preferences – self-control – mental accounting – hyperbolic discounting – architecture of nudging

UNIT II: CONSUMER CHOICE

12 hrs.

Human wants – utility – satisfaction – indifference curve – consumer equilibrium – consumer surplus – Experiments in Economics: choice architecture of nudging – Vickrey auction – endowment effect – status quo bias – trust and reciprocity – dictator game and ultimatum games – tit-for-tat game

UNIT III: ECONOMICS OF SOCIAL INSTITUTIONS

12 hrs.

Economics of marriage: definition – age – gender – social class – family size – impact of globalization on Indian families – Economics of gift-giving: value of gifts in cash and kinds – Economics of childcare: quality of child-care – an economic perspective – economic inequality between men and women

UNIT IV: ECONOMICS OF SOCIAL EVILS

12 hrs.

Social evils: meaning – causes – Pollution: the economic roots of the pollution problem – Addiction: prohibition does more harm than good – legalizing drugs as solution to addiction – Corruption: an economic perspective

UNIT V: ECONOMICS OF ENTERTAINMENT

12 hrs.

Work-leisure ratio – Media and Entertainment Economics: theatres, televisions, hand gadgets – Performing Arts: Indian music – instrument, vocal – drama – dance – amusement parks – Sports: market demand and revenue – broadcasting rights – entertainment tax

TEXT BOOK(S):

John, F. Tomer. *Advanced Introduction to Behavioral Economics*. United Kingdom: Elger Edward Publishing, 2017.

Paul, L. Heyne, Peter. J. Boettke & David. L. Prychitko. *The Economic Way of Thinking*, USA: Pearson, 2013.

REFERENCE BOOK(S):

Michael, A. Leeds, Peter Von Allmen & Victor A. Matheson, *The Economics of Sports*. New Zealand: Routledge Publishers, 2018.

Mildenberger, C. *Economics and Social Conflict: Evil Actions and Evil Social Institutions in Virtual Worlds*. London: Palgrave Macmillan, 2013.

Robert, J. Stonebraker. *The Joy of Economics: New Zealand: Making Sense of Life*. Routledge Publishers, 2005.

Shoshana, Grossbard-Schechtman. *On the Economics of marriage*. Westview Press, 2019.

Tim Harford. *The Logic of Life: Uncovering the New Economics of Everything*. Abacus Publishers, 2009.

PEC2201EI ECONOMICS IN EVERYDAY LIFE	
Class	I M.A. Economics - Semester II
Cognitive Level	K-1 Remember
	K-3 Apply
	K-4 Analyze
	K-4 Analyze
	K-2 Understand

PEC2202EI ECONOMICS OF SOCIAL ISSUES (THEORY)

COURSE OUTCOMES:

4 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: recognise the economic value of environment
- CO2: identify the economic impact of crime and drug addiction
- CO3: categorize family as an economic institution
- CO4: interpret various measure of poverty and economic inequality
- CO5: perceive economic values from a cultural perspective

COURSE CONTENT:

UNIT I: ECONOMICS OF ENVIRONMENT AND HEALTH CARE

12 hrs.

Environment as an economic good – costs and benefits of environmental conservation – economic perspective on pollution control: the concept of optimum pollution – demand for health and health care: “physician induced demand” – economic approach to measuring the value of health

UNIT II: ECONOMICS OF CRIME AND DRUG ADDICTION

12 hrs.

Economic approach to crime: concept of “rational crime” – economic perspective on crime control – drug addiction as a rational choice – the economic case for and against legalizing drugs

UNIT II: FAMILY ECONOMICS

12 hrs.

Resource allocation in the household – children as economic goods and family size – economic perspective on marriage and divorce

UNIT IV: POVERTY AND INCOME DISTRIBUTION

12 hrs.

Definition and measurement of poverty – economic perspectives on poverty eradication - the market system and income distribution – benefits and costs of inequality

UNIT V: ECONOMICS AND CULTURE

12 hrs.

The economic importance of culture- the economic approach to valuing culture – the market, state and culture: the impact of the market on cultural life – ‘cost disease’ and its policy implications

TEXT BOOK:

Register, C. & Grimes, P. *Economics of Social Issues*. New York: 21st Edition. McGraw Hill, 2016.

REFERENCE BOOKS:

Dutt&Sundharam. *IndianEconomy*. Sulthan Chand & Sons Publications, 2016.

Harford, T. *The Logic of Life: Uncovering the New Economics of Everything*. London: Abacus Publishers, 2009.

John, F. Tomer. *Advanced Introduction to Behavioral Economics*. United Kingdom: Elger Edward Publishing, 2017.

Michael, A. Leeds, Peter Von Allmen& Victor A. Matheson, *The Economics of Sports*. Routledge Publishers, 2018.

Mildenberger, C. *Economics and Social Conflict: Evil Actions and Evil Social Institutions in Virtual Worlds*. Palgrave Macmillan, 2013.

Robert, J. Stonebraker. *The Joy of Economics: New Zealand: Making Sense of Life*. Routledge Publishers, 2005.

Shoshana,Grossbard-Schectman. *On the Economics of Marriage*. Colorado: Westview Press, 2019.

PEC2202EI ECONOMICS OF SOCIAL ISSUES	
Class	I M.A. Economics - Semester II
Cognitive Level	K-2 Understand
	K-3 Apply
	K-4Analyze
	K-1 Remember
	K-5Evaluate

PEC2203EI SUSTAINABLE DEVELOPMENT**(THEORY)****COURSE OUTCOMES:****4 hrs./wk.**

On successful completion of the course, the student will be able to

CO1: recall the concepts related to sustainability

CO2: identify the methods of valuation of natural resources

CO3: express the need to manage the global commons and environmental accounting

CO4: relate the indicators of sustainable development

CO5: examine international trade and green policies

COURSE CONTENT:**UNIT I: ENVIRONMENT, ECONOMIC GROWTH AND SUSTAINABILITY****12 hrs.**

Introduction – meaning – need – resources and the environment – sources – population – natural resources – environmental features – geophysical and ecological aspects – impact – resilience, non-linearity and irreversibility – economic growth and sustainability – precautionary principle

UNIT II: VALUATION OF NATURAL RESOURCES AND FUTURE**12 hrs.**

Valuing resources and the future – general methods of valuation – economics of exhaustible resources – cost-benefit analysis – Net National Product and sustainability

UNIT III: GLOBAL COMMONS AND ENVIRONMENTAL ACCOUNTING**12 hrs.**

Global commons – climate change – global warming potential –greenhouse effect – stabilisation – green taxes – environmental accounting – environmental damage and resources depletion – integrated economic and environmental accounting

UNIT IV: INDICATORS OF SUSTAINABLE DEVELOPMENT**12 hrs.**

Indicators– poverty reduction and sustainability – policy alternatives –environmental markets and the environment industry – compliance and beyond – standards and certification

UNIT V: INTERNATIONAL TRADE, ENVIRONMENT AND POLICY FRAMEWORK**12 hrs.**

International trade and environment – generational accounting and sustainability – sustainable economy and green policy – international sharing of responsibilities – multilevel framework – Sustainable Development Goals

TEXT BOOK:

Rao, P.K. *Sustainable Development Economics and Policy*. First Edition. United Kingdom: Blackwell Publishers, 2000.

REFERENCE BOOK(S):

Doy, C. Richard. *Towards a Sustainable World*. Tokyo: Academic Press, 2001.

Sterver, Thomas. *The Market and the Environment*. United Kingdom: Edward Elgar Publishing Ltd., 1991.

OPEN EDUCATIONAL RESOURCE(S):

“Natural resources, economic systems and attainability of sustainable development - Part A.” *YouTube*. Uploaded by Université de Lorraine. 2 July 2019, https://youtu.be/jH_7wulX9xA. CC BY license.

“ESS211 Introduction to Environmental Resource Economics.” *YouTube*. Uploaded by Richard Knight. 21 April 2020, <https://youtu.be/AMx0GWQrmJ8>. CC BY license.

Economics of the Green New Deal.” *YouTube*. Uploaded by misesmedia. 21 July 2019, <https://youtu.be/ILaKxeR3XtA>. CC BY license.

“What is GREEN INDUSTRIAL POLICY? What does GREEN INDUSTRIAL POLICY mean?” *YouTube*. Uploaded by The Audiopedia. 20 October 2017, <https://youtu.be/yavqxSLtCjQ>. CC BY license.

“Sustainable Development - Video 2 - How do we measure it?” *YouTube*. Uploaded by [Linda Vanasupa](#). 1 November 2012, <https://youtu.be/-jnH9o8Ajd0>. CC BY license.

“What is GENERATIONAL ACCOUNTING? What does GENERATIONAL ACCOUNTING mean?” *YouTube*. Uploaded by The Audiopedia. 21 April 2017, <https://youtu.be/QOX57DAaG84>. CC BY license.

PEC2203EISUSTAINABLE DEVELOPMENT	
CLASS	I PG – SEMESTER II
Cognitive Level	K-1 Remember
	K-2 Understand
	K-2 Understand
	K-3 Apply
	K-4 Analyze

PEC3401CM MONETARY ECONOMICS

(THEORY)

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: interpret the quantity theories of money
- CO2: discuss the theories of money supply
- CO3: infer financial intermediation and institutional roles
- CO4: analyse the role of banking in India
- CO5: appraise monetary policies

UNIT I: THEORY OF MONEY

15 hrs.

Quantity Theories of Money – Fisher and Cambridge – Milton Friedman's reformulated quantity theory – Keynesian monetary theory – James Tobin's portfolio analysis of money demand – Don Patinkin's Integration – Real Balance Effect

UNIT II: SUPPLY OF MONEY

15 hrs.

Money supply – determinants of money supply – The 'H' theory of money supply – money multiplier – liquidity measures – theories of interest rate – Classical savings and investment – Neo-classical loanable funds theory – Keynesian liquidity preference theory – Hicks and Hansen's modern theory of interest

UNIT III: MONEY MARKET AND CAPITAL MARKET

15 hrs.

Significance and functions of money market and capital market – role of financial intermediaries – effects of financial intermediation – non-banking financial institutions – Gurley and Shaw theory

UNIT IV: CENTRAL AND COMMERCIAL BANKS

15 hrs.

Functions of commercial banks – credit creation – process and limitations – role of commercial banks after nationalization – after reforms – role of RBI – regulation of money supply and credit – Narasimham Committee Reports – 1991 and 1998 – Raguram Rajan Committee Report 2007 – Basel reforms 2017

UNIT V: MONETARY POLICY

15 hrs.

Objectives and instruments of monetary policy – limitations of monetary policy – monetarism and Keynesianism – comparison – supply side monetary policies – rules vs. discretion

TEXT BOOK:

Jhingan M.L. *Monetary Economics*. New Delhi: Konark Publication, 2005.

REFERENCE BOOK(S):

Bain, Keith and Peter Howells. *Monetary Economics: Policy and its Theoretical basis*. London: Palgrave Macmillan, 2003.

Gupta, R.D. *Keynes and Post Keynesian Economics*. New Delhi: Kalyani Publishers, 2013.

Harry, Johnson. *Essays in Monetary Economics*. Crow's Nest: George Allen Unwin, 2013.

Moore, J. Basil. *An Introduction to the Theory of Finance*. UK: Oxford University Press, 1968.

Sundaram, K.P.M. *Money, Banking and International Trade*. New Delhi: Vikas, 2003.

Vaish, M.C. *Money, Banking and International Trade*. New Delhi: New Age International, 1985.

OPEN EDUCATIONAL RESOURCE(S):

VIDEO(S):

“What is Monetary Policy?” *Youtube*. Uploaded by The Audiopedia. 13 April 2016, <https://www.youtube.com/watch?v=Da9mK5BFh-4>. CC by License.

“F.A.Hayek on Monetary Policy, the Gold Standard, Deficits, Inflation, and John Maynard Keynes.” *Youtube*. Uploaded by Libertarianism.org. 13 April 2015, CC by License. <https://www.youtube.com/watch?v=EYhEDxFwFRU>.

“Who was a better Monetary Economist? Rothbard and Friedman compared | Joseph T. Salerno.” *Youtube*. Uploaded by misesmedia. 8 November 2011, <https://www.youtube.com/watch?v=DMR-r0nrk60>. CC by License.

“Monetary Policy in the hands of India – Tools in the hands of RBI.” *Youtube*. Uploaded by BankExamsToday. 2 December 2016, <https://www.youtube.com/watch?v=Gm8LZcTUmf8>. CC by License.

“Monetary Policy in South Africa.” *Youtube*. Uploaded by lostmy1. CC by License. <https://www.youtube.com/watch?v=kESb4WkepiY>.

PEC3401CMMONETARY ECONOMICS	
CLASS	II M.A. ECONOMICS – SEMESTER III
Cognitive Level	K-2 Understand
	K-2 Understand
	K-2 Understand
	K-4 Analyze
	K-5 Evaluate

PEC3401CMMONETARY ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	2	1	1
CO2	2	1	1
CO3	3	2	1
CO4	3	3	1
CO5	2	3	1

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

PEC3402CMECONOMETRICS

(THEORY)

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

CO1:recall the stochastic nature of economic relationships

CO2:interpret the parameters of econometric models

CO3:identify the violation of OLS assumptions

CO4:analyse time series econometric model

CO5:examine simultaneous equation models

COURSE CONTENT:

UNIT I: INTRODUCTION TO ECONOMETRICS AND REGRESSION MODELS

15 hrs.

Nature and scope of Econometrics – methodology – meaning of regression – deterministic vs. stochastic relations – reasons for inclusion of U – assumptions of U – OLS method of estimation of a simple linear regression model – Gauss Markov Theorem – R^2 as measure of goodness of fit – test of significance and confidence interval for regression coefficients – reporting regression results – Multiple Linear Regression Model – assumptions – estimation – \bar{R}^2

UNIT II: VIOLATION OF OLS ASSUMPTIONS

15 hrs.

Heteroscedasticity, Autocorrelation and Multicollinearity – meaning, sources, consequences, detection and solutions (Goldfeld-Quandt test, Spearman Rank correlation test for Heteroscedasticity – Durbin-Watson test for Auto correlation)

UNIT III: QUALITATIVE RESPONSE REGRESSION MODELS

15 hrs.

Dummy variable – ANOVA and ANCOVA models – Dummy variable trap – uses in measuring shift and change in the slope of a function over time – comparing means of subgroups – Seasonal analysis – Dummy dependent variable model – Logit, Probit and Tobit models

UNIT IV: TIME SERIES ECONOMETRICS

15 hrs.

Distributed lag – Stochastic process: stationary and non-stationary – Unit Root Stochastic process – Trend stationary and difference stationary stochastic process – integrated stochastic process – spurious regression – Unit Root test: Dickey Fuller and ADF test – Cointegration model – ARIMA model

UNIT V: SIMULTANEOUS EQUATION MODEL AND METHODS

15 hrs.

Definition – simultaneous equation bias – Structural, Reduced form and Recursive models – identification – Rules: order and rank condition – ILS, 2SLS method – assumption and properties

TEXT BOOK:

Damodar, N. Gujarati, Dawn C. Porter and Sangeetha Gunasekar. *Basic Econometrics*. 5th ed. New Delhi: McGraw Hill education, 2017. Print.

REFERENCE BOOK(S):

Enders, Walter. *Applied Econometric Time Series*. UK: John Wiley & Sons, Inc. 2004. Print.

Henderson, James and Richard Quandt. *Microeconomic theory: A Mathematical Approach*, 3rd ed. New York: McGraw Hill Education, 2017. Print.

Johnston, Jack and John Dinardo. *Econometric Methods*. 4th ed. New York: McGraw Hill International Editions, Economic Series, 1997. Print.

Kennedy, Peter. *A Guide to Econometrics*. Australia. Blackwell Publishing, 2003. Print.

Koutosoyiannis. A. *Theory of Econometrics*. 2nd ed. New York: Macmillan India Ltd, 1992. Print.

Maddalla, G. S. *Introduction to Econometrics*. 3rd ed. New Delhi: John Wiley & Sons Ltd, 2001. Print.

Madnani, G.M.K. *Introduction to Econometrics: Principles and Applications*. 8th ed. Oxford & India Book House Co. Pvt., Ltd, 2015. Print.

Studenmund A.H. *Using Econometrics -A Practical Guide*. 5thed. New Delhi: Pearson International. 2006. Print.

Upender, M. *Applied Econometrics*. New Delhi: Vrinda publication pvt. Ltd, 2003. Print.

William, H. Greene. *Econometric Analysis*. 5th ed. New Delhi: Prentice Hall of India, 2002. Print.

Wooldridge, Jeffrey. *Introductory Econometrics: A Modern Approach*. 5th ed., US: South-Western College Publishing. 2012. Print.

OPEN EDUCATIONAL RESOURCE(S):

eBook(s):

Basic Econometrics, Gujarati McGraw-Hill Education (India) Pvt Limited, 2007, <https://www.pdfdrive.com/basic-econometrics-student-solutions-manual-for-use-with-basic-econometrics-d184135351.html> Accessed on 8 October, 2020, Creative Commons license.

Introduction to Econometrics C. Dougherty 2001. <https://www.pdfdrive.com/introduction-to-econometrics-e18945575.html> Accessed on 8 October, 2020, Creative Commons license.

Introductory Econometrics: A Modern Approach, Jeffrey Wooldridge, South-Western College Publishing. 2012.

[https://economics.ut.ac.ir/documents/3030266/14100645/Jeffrey M. Wooldridge Introductory Econometrics A Modern Approach 2012.pdf](https://economics.ut.ac.ir/documents/3030266/14100645/Jeffrey_M._Wooldridge_Introductory_Econometrics_A_Modern_Approach_2012.pdf) Accessed on 14 November, 2020, Creative Commons license.

VIDEO(S):

“Introduction to Econometrics: Simple Linear Regression (Part A)” *Youtube*. Uploaded by Wilson Wan, 13 June, 2017, <https://youtu.be/UcOVLStGPMw>, CC BY license.

“Simple Linear Regression (Part A)” by Dr.SoumenMaity, Department of Mathematics, IIT Kharagpur. *Youtube*. Uploaded by <http://nptel.ac.in>, 6 March, 2015, <https://youtu.be/OQV8WmUdelo?list=PLbMVogVj5nJSpi5sl-8tdKARg1lw2wEa->, CC BY license.

“Multiple Linear Regression (Part A)” by Dr.SoumenMaity, Department of Mathematics, IIT Kharagpur. *Youtube*. Uploaded by <http://nptel.ac.in>, 6 March, 2015, <https://youtu.be/LhGFXO1NQLk>, CC BY license.

“Introduction to Econometrics: Multiple Regression (Part A)” *Youtube*. Uploaded by Wilson Wan, 14 June, 2017, <https://youtu.be/ayTs6Ri9UnM>, CC BY license.

“Spearman Rank Correlation” - Math Tutorial, *Youtube*. Uploaded by D’Liens David Lee Reyes, 2 May, 2020, <https://youtu.be/jnGZcDQQBw>, CC BY license.

“Multicollinearity (Part A)” by Dr.SoumenMaity, Department of Mathematics, IIT Kharagpur. *Youtube*. Uploaded by <http://nptel.ac.in>, Mar 6, 2015, <https://youtu.be/03kNMY6DgmA>, CC BY license.

“Dummy Variables (Part A)” by Dr.SoumenMaity,Department of Mathematics,IIT Kharagpur.*Youtube*.Uploaded by <http://nptel.ac.in>, 6 March, 2015,<https://youtu.be/LjTcJXtGPcl>, CC BY license.

Time Series Analysis (Part-1) by Data Science, Simplilearn. *Youtube*.Uploaded bySimplilearn, 2 July, 2018, <https://youtu.be/gj4L2isnOf8>, CC BY license.

PEC3402CMECONOMETRICS	
CLASS	II M.A. ECONOMICS – SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-3 Apply
	K-4 Analyze
	K-4 Evaluate

MAPPING: COs consistency with PSOs

PEC3402CMMONETARY ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	2	2	3
CO2	3	3	3
CO3	1	1	3
CO4	3	3	3
CO5	3	3	3

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

PEC3403CMENVIRONMENTAL ECONOMICS

(THEORY)

COURSE OUTCOMES:

5hrs./wk.

On successful completion of the course, the student will be able to

- CO1: recognize environmental importance to the economy
- CO2: identify environment-market interactions and their implications
- CO3: discuss methods of environmental valuation
- CO4: discover resources and classification
- CO5: relate sustainability of economic growth

COURSE CONTENT:

UNIT I: ECONOMY AND THE ENVIRONMENT

15 hrs.

Interaction between the economic system and the environmental system–services provided by the environmental system to the economic system–Material Balance model – Types of Pollutants: cumulative and noncumulative – local, regional and global – Welfare effects of pollution: local and

global air pollution – acid rain, ozone depletion, global warming – water pollution, municipal solid waste

UNIT II: NATURAL RESOURCE ECONOMICS

15hrs.

Types of natural resources–McKelvey classification – measuring resource scarcity: resource lifetime, unit cost measures, real prices, economic rent – Allocating resources: Hotelling Theorem – Forests: Frontier model and immiseration models of deforestation – Water: efficient allocation of surface and ground water – Common Property Resources (CPRs) – tragedy of the commons – Ostrom’s “design principles” for sustainable local CPR governance

UNIT III: ENVIRONMENTAL VALUATION

15hrs.

Environmental values: Direct and indirect – production function and possibility curve – Cost-benefit analysis – need for environmental valuation – categories of environmental value – methods of environmental valuation – Revealed preference methods: Hedonic pricing method, travel cost method: Stated preference approach – Contingent Valuation Method

UNIT IV: MARKET AND THE ENVIRONMENT

15hrs.

Environmental goods as public goods – conditions for efficient functioning of markets – Market failure and environmental damage – an externality – Asymmetric information and environmental damage; adverse selection, moral hazard – Property rights and environmental damage: the Coase Theorem – Government failure – Pollution control Policies – Command-and-control policy – Market based instruments: pollution taxes, tradable permits, subsidies

UNIT V: ECONOMIC GROWTH AND SUSTAINABLE DEVELOPMENT

15hrs.

Growth and the environment: The environmental Kuznets curve – “limits to growth” Club of Rome model – sustainable development – Brundtland Commission definition – Theories of sustainable development: weak sustainable development and strong sustainable development – sustainability rules: The “Hartwick rule” – safe minimum standards – measuring sustainable development: “green national accounts” – genuine savings – link between poverty and environmental degradation

TEXT BOOK:

Hanley, Nick, J.F. Shogren, and Ben White. *Introduction to Environmental Economics*. London, Oxford University Press, 2006.

REFERENCE BOOK(S):

Bateman, J. Ian. *Economic Valuation with Stated Preference Techniques: A Manual*. Edward Elgar, 2002. Print.

Field, C. Barry. *Natural Resource Economics: An Introduction*. London, McGraw Hill, 2001.

Karpagam, M. *Environmental Economics*. New Delhi, Sterling Publishers, 1998.

Kolstad, C. *Environmental Economics*. Oxford University Press, 2000.

- *Intermediate Environmental Economics*. 2nd ed: Oxford University Press, 2012. Print.

Sankar, U. *Environmental Economics*. New Delhi, Oxford University Press, 2000.

OPEN EDUCATIONAL RESOURCE(S):

VIDEO(S):

“Externalities, Public Goods, and the Role of Government | Peter G. Klein.” YouTube. Uploaded by misesmedia. 15 August 2017, https://www.youtube.com/watch?v=y95f3n_nMYCC BY license.

“Environmental and Resource Economics | Timothy D. Terrell.” YouTube. Uploaded by misesmedia. 2 August 2019, <https://www.youtube.com/watch?v=3Cs3HhiQAgMCC> BY license.

“Environmental Kuznets Curve.” YouTube. Uploaded by Brainy IAS. 7 May 2018, <https://www.youtube.com/watch?v=NzCZs3WF1nkCC> BY license.

PEC3403CM ENVIRONMENTAL ECONOMICS	
CLASS	II M.A. ECONOMICS – SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-2 Understand
	K-4 Analyze
	K-5 Evaluate

MAPPING: COs consistency with PSOs

PEC3403CM ENVIRONMENTAL ECONOMICS			
CO/PSO	PSO		
	1	2	3
CO1	2	2	1
CO2	2	2	1
CO3	3	2	2
CO4	2	2	1
CO5	2	2	1

Strongly correlated (3) moderately correlated (2) weakly correlated (1)

PEC3404CM AGRICULTURAL ECONOMICS

(THEORY)

COURSE OUTCOME:

5hrs./wk.

On successful completion of the course, the student will be able to

CO1: recognize the scope of agriculture

CO2: discuss productivity issues in agriculture

CO3: probe into rural labour and employment

CO4: explain the sources of capital and finance for agriculture

CO5: evaluate the reforms in agriculture

COURSE CONTENT:

UNIT I: INTRODUCTION

15hrs.

Scope and significance of agriculture – agriculture and industry – a comparison – role of agriculture in India's development – inter-sectoral linkage – an overview – contribution to GDP

UNIT II: AGRICULTURAL PRODUCTION AND PRODUCTIVITY

15hrs.

Production function analysis – relevance to farm production economics productivity trends – low production and productivity: causes – consequences and measures – size – efficiency relations in Indian agriculture – A.K. Sen's hypothesis – role of technology in agriculture – structural changes in agriculture

UNIT III: AGRICULTURAL LABOUR**15hrs.**

Agricultural labour – types – supply of labour – problems – rural unemployment – types – consequences and remedial measures – minimum wages for agricultural workers – an evaluation – poverty eradication programmes – recent wage and self-employment programmes

UNIT IV: AGRICULTURAL FINANCE AND MARKETING**15hrs.**

Agricultural finance – meaning – nature – types – sources and problems of agricultural finance – co-operatives in rural finance – role of commercial banks and NABARD in rural finance – agricultural marketing reforms

UNIT V: AGRICULTURAL POLICY**15hrs.**

Agricultural price policy – objectives – instruments and impact – economic reforms and agricultural policy – WTO and agriculture – agricultural taxation and its relevance – recent agricultural ordinances

TEXT BOOK:

Bilgrami, S.A.R. *An Introduction to Agricultural Economics*. New Delhi: Himalayan Publishing House Pvt.Ltd., 2018.

REFERENCE BOOK(S):

Dantwala, M.L (ed.). *Indian Agricultural Development since Independence*. New Delhi: Oxford and IBH Publishing company private limited, 2002

Datt, Gaurav and Ashwani Mahajan. *Indian Economy*. New Delhi: Chand and Company Limited, 2018.

Desai, B.P. Vasant. *Agricultural Economics, Rural development*. Meerut: Jai Prakash North, 2000.

Desai, R. *Agricultural Economics (Models, Problems and Policy Issues)*. New Delhi: Himalaya Publishing house, 2018.

Rao, C.H. Hanumantha. *Technological changes and distribution of grains in India agriculture*. New Delhi: Macmillan, 1977.

Rudra, Ashok. *Indian Agricultural Economics: Myths and Realities*. New Delhi: Allied Publishers, 1982.

OPEN EDUCATION RESOURCE(S):**VIDEO:**

Agricultural market situation and outlook webinar series. YouTube uploaded by NDSU Extension- May, 2020: <https://www.youtube.com/watch?v=WtrPGtGR74s> Creative Commons Attribution License.

eBook:

Andrew Berkley: *The Economics of Food and Agriculture*, 2016, OER Commons <https://www.oercommons.org/courses/the-economics-of-food-and-agricultural-markets/view> Creative commons attribution non-commercial share alike.

TEXT:

Kamble Chandrakan. *Agriculture*, May 2020, OER Commons, Creative Commons Attribution. <https://www.oercommons.org/courseware/lesson/67628/overview>

PEC3404CMAGRICULTURAL ECONOMICS	
CLASS	II M.A. ECONOMICS – SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-4 Analyze
	K-5 Evaluate
	K-5 Evaluate

MAPPING: COs consistency with PSOs

PEC3404CMAGRICULTURAL ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	1	1	1
CO2	1	2	2
CO3	1	2	2
CO4	2	2	1
CO5	2	2	2

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

PEC3401MO ECONOMICS OF SUSTAINABLE DEVELOPMENT

(THEORY)

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

CO1:relate sustainable development with economic development and environmental quality

CO2:discuss the sustainability from different perspectives and approaches

CO3:identify the global, national and local indicators of sustainability

CO4:examine the sectoral polices for sustainable development

CO5: deduce Sustainable Development Goals

COURSE CONTENT:

UNITI:THE INTEGRATION OF SUSTAINABILITY AND DEVELOPMENT

15 hrs.

Sustainability vs. development –inadequacy of growth as indicator of welfare – environmental basis of economic growth –economic development and environmental quality: the environmental Kuznets curve hypothesis –negative environmental and economic patterns of past development strategies

UNITII:RULES OF SUSTAINABLE DEVELOPMENT

15 hrs.

Sustainability of free market outcomes – placing correct prices on the environment – Hartwick-Solow rule – Daly’s operational principles – the safe minimum standard rule – London School approach

UNIT III: SUSTAINABILITY INDICATORS AND MEASUREMENT**15 hrs.**

Global, national and local indicators of sustainability – Prescott-Allen’s Barometer of sustainability – Human Wellbeing Index – Ecosystem Wellbeing Index – Stress Index – AMOEBA approach –green national accounts – Genuine savings index – Shadow project approach

UNITIV: SECTORAL POLICIES FOR SUSTAINABLE DEVELOPMENT**15 hrs.**

Institutions for sustainable development– institutions coordinating human behaviour – market – Government – civil society – sustainable development in the agricultural sector – environment and rural poverty – agricultural biotechnology, poverty and the precautionary principle – institutions for management of problems related to agriculture – intensifying the use of land –intensifying the use of water – conversion of forests to agriculture –sustainable urban development –role of cities in sustainable development –urban environmental problems by level of city development – institutions for sustainable urban development

UNIT V: SUSTAINABLE DEVELOPMENT GOALS**15 hrs.**

Earth submit –Millennium Development Goals – UN sustainable development submit– role of developed countries in the sustainable development of developing countries

TEXT BOOK:

KarpagamM.*Environmental Economics: A Textbook*. Third Revised Edition.NewDelhi: Sterling Publishers Pvt. Limited, 2019.

REFERENCE BOOK(S):

Barbier, Edward B., Markandya, Anil. *A New Blueprint for a Green Economy*. First Edition. New York: Cenvo Publisher Services, 2013.

Beckerman and Wilford.*Small is Stupid: Blowing the Whistle on the Greens*.First Edition.London:Duckworth, 1995.

Bhattacharya,N. Rabindra (ed). *EnvironmentalEconomics: An Indian Perspective*.First Edition.New Delhi: Oxford UniversityPress,2002.

Hanley, Nick, Jason F.Shogren and Ben White. *Introduction to Environmental Economics*.Illustrated, ReprintEdition.Oxford:Oxford University Press,2001.

LEAD India (Organization). *Rio, Johannesburg and Beyond: India’s Progress in Sustainable Development*. First Edition. New Delhi: Orient Longman,2002.

Pearce, W. David and Jermey J. Warford. *World Without End: Economics, Environment, and Sustainable Development*. First Edition. New York: Oxford University Press,1993.

Turner, Kerry R, David Pearce and Ian Bateman. *Environmental economics: An Elementary Introduction*.First Edition.Baltimore: Johns Hopkins University Press,1993.

World Bank.*Sustainable Development in a DynamicWorld: Transforming Institutions, Growth, and the Quality of Life*. Revised Edition. NewYork:World Bank Publications,2003.

WEBSITE:

<https://www.undp.org/content/undp/en/home/sustainable-development-goals.html>

OPEN EDUCATIONAL RESOURCE(S):**VIDEO(S):**

“Sustainable Development Video 1 An Introduction” *YouTube*. Uploaded by Linda Vanasupa. 26 October 2012, <https://youtu.be/RCN6it0LZvY>. CC BY license.

“What is Sustainable Development? & Why it is important?” *YouTube*. Uploaded by Waterpedia. 16 September 2017, <https://youtu.be/amDNovg9f0o>. CC BY license.

“Sustainable Development: Concept, Measurement and Strategies.” *YouTube*. Uploaded by IIT Bombay. 6 June 2016, <https://youtu.be/zFiIF1oJ4ml>. CC BY license.

“Sustainable Development - Video 2 - How do we measure it?” *YouTube*. Uploaded by [Linda Vanasupa](#). 1 November 2012, <https://youtu.be/-jnH9o8Ajd0>. CC BY license.

“Sustainable Development as seen by Economists: Weak Sustainability or Strong Sustainability.” *YouTube*. Uploaded by UVED. 25 March 2015, <https://youtu.be/n-rewynKklk>. CC BY license.

“Pathways for Economic Reset | Sustainable Development Summit 2020.” *YouTube*. Uploaded by World Economic Forum. 22 September 2020, <https://youtu.be/yBfhucax7gc>. CC BY license.

PEC3401MO ECONOMICS OF SUSTAINABLE DEVELOPMENT	
CLASS	II M.A. ECONOMICS – SEMESTER III
Cognitive Level	K-1 Remembering
	K-2 Understanding
	K-3 Apply
	K-4 Analyse
	K-4 Analyse

MAPPING: COs consistency with PSOs

PEC3401MO ECONOMICS OF SUSTAINABLE DEVELOPMENT			
CO / PSO	PSO		
	1	2	3
CO1	1	3	3
CO2	2	2	2
CO3	2	3	2
CO4	2	3	2
CO5	2	3	2

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

**PEC3402MO INDUSTRIAL ECONOMICS
(THEORY)**

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

CO1: recall the concepts related to industries

CO2: identify the structure of firms

CO3: describe the significance of industrial location

CO4: examine the factors affecting industrial productivity

CO5: analyze the issues in industrial sector

COURSE CONTENT:

UNIT I: BASIC CONCEPTS AND PRICING

15 hrs.

Concepts: firm – industrial combination – causes – conglomerate – cartel – pattern of industrialization – economies of scale – market structure – objectives of the firm – growth of firms – marginal cost pricing vs. full cost pricing – depreciation – administered prices

UNIT II: INDUSTRIAL ORGANIZATION

15 hrs.

Industrial organization – structure and change – diversification – vertical integration and merger – industrial clusters – industrial estates – Special Economic Zones (SEZs) – MSMEs – The Industries (Development and Regulation) Amendment Act, 2016

UNIT III: THEORIES OF INDUSTRIAL LOCATION AND REGIONAL DEVELOPMENT

15 hrs.

Industrial location: factors affecting industrial location – measures of localization – Weber and Sargent Florence theory of industrial location – regional growth of industry in India – need for balance regional development of industries – industrial policy on backward areas

UNIT IV: INDUSTRIAL PRODUCTIVITY AND FINANCE

15 hrs.

Industrial productivity: measures – factors affecting productivity and efficiency – Industrial finance: need – types – sources – Industrial Development Bank of India – Industrial Finance Corporation – objectives and functioning – impact of these institutions – ratio analysis and interpretation

UNIT V: ISSUES IN INDIAN INDUSTRY

15 hrs.

Public sector: rationale – organization – pricing policies – question of efficiency – performance of public sector in India – concept of joint sector – Public-Private Partnership (PPP) – Industrial problems: industrial sickness – evaluation of industrial reform measures – recent industrial policy – foreign capital and role of MNC in India

TEXT BOOK:

Barthwal, R.R. *Industrial Economics: An Introductory Text Book*. New Delhi: New Age International, 2019.

REFERENCE BOOK(S):

Clarke, G. Roger. *Industrial Economics*. 1st edition. United Kingdom: Wiley-Blackwell, 1991.

Devine, P.J. et al. *An Introduction to Industrial Economics: Volume 14 of Routledge Library Editions: Industrial Economics*. United Kingdom: Routledge, 2019.

Dhingra, I.C. and Nitin Dhingra. *Industrial Economics*. New Delhi: Book Age Publications, 2013.

George, D. Kenneth, et al. *Industrial Organisation: Competition, Growth and Structural Change*. United Kingdom: Routledge, 1992.

Hay, A. Donald and Derek J. Morris. *Industrial Economics and Organization: Theory and Evidence*. Oxford: Oxford University Press, 1991.

Howe, W. Steward. *Industrial Economics: An Applied Approach*. London: Macmillan International Higher Education, 2015.

Martin, Stephen. *Advanced Industrial Economics*. 2nd edition. United Kingdom: Wiley-Blackwell, 2001.

OPEN EDUCATIONAL RESOURCE(S):

eBook:

Boccard, Nicolas. *Industrial Organization: A Contract Based Approach*. Textbook Equity Open Education, 2010. OER Commons, <https://www.textbookequity.org/boccard-industrial-organization-2010/>. Accessed 11 October 2020. CC BY-NC-SA.

VIDEO(S):

“Industrial location.” *You Tube*. Uploaded by Doubtnut. 18 January 2020, <https://www.youtube.com/watch?v=H7Bd8vN8t0Q>. CC BY license.

“Factors affecting industrial location.” *You Tube*. Uploaded by Doubtnut. 18 January 2020, <https://www.youtube.com/watch?v=RXWynyfieCw>. CC BY license.

PEC3402MO INDUSTRIAL ECONOMICS	
CLASS	II M.A. ECONOMICS – SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-2 Understand
	K-4 Analyse
	K-4 Analyse

MAPPING: COs consistency with PSOs

PEC3402MO INDUSTRIAL ECONOMICS			
CO / PSO	PSO		
	1	2	3
CO1	1	1	1
CO2	1	2	2
CO3	2	2	2
CO4	2	2	2
CO5	2	3	2

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

PEC3403TO GEOSPATIAL ECONOMICS

(LAB CUM THEORY)

COURSE OUTCOMES:

3T + 2L hrs. / wk.

On successful completion of the course, the student will be able to

- CO1: identify the basic concepts of GIS in Economics
- CO2: recognize database construction, data input and editing
- CO3: relate geospatial techniques in surface modeling application
- CO4: build spatial modeling approaches to identify new business opportunities
- CO5: create geospatial mapping for planning and management of utility and its services

COURSE CONTENT:

UNIT I: INTRODUCTION TO GEOSPATIAL ECONOMICS

9T + 6Lhrs.

Geospatial Economics – definition and its importance – demographic spatial distribution – age, gender, racial group and socioeconomic segregation – geo-ethnography – labour market exploration – location theories – central place theory

LAB EXERCISE(S):

- Exploring QGIS
- Introduction to spatial mapping
- Census data mapping
- Labour market trend analysis

UNITII: GEOSPATIAL DATABASE CREATION

9T + 6Lhrs.

Introduction – use of open source data – building GIS database – storage of GIS data – spatial data: spatial data models – attribute data models: DBMS – functions of DBMS – components of DBMS – simple list – ordered sequential files – indexed files – hierarchical database – RDBMS – object oriented database

LAB EXERCISE(S):

- Downloading satellite data from open sources
- Building GIS database – spatial and attribute data
- Storing and management of data
- Creating database and layers
- working with tables and symbology

UNIT III: GEOSPATIAL TECHNIQUES

9T + 6Lhrs.

Introduction – spatial measurement – reclassification – buffer – queries – overlay analysis – vector overlay – points, lines and polygon – raster overlay – interpolation – network analysis – surface analysis: DEM – TIN – slope – aspect – geo statistics – visibility analysis

LAB EXERCISE(S):

- Spatial analytical tools: buffer, reclass
- Vector analysis: mapping air quality (points), mapping GPS tracks for transportation infrastructure (lines), thematic mapping of census data (polygon)
- Raster analysis: surface water quality using interpolation technique
- Geostatistical tools: geographic regression analysis
- Surface and network analysis

UNIT IV: SPATIAL PLANNING AND GOVERNANCE

9T + 6Lhrs.

Regional planning – sustainable rural and urban development – problems – cluster economies – Regional governance: spatial arrangement in Indian cities and villages – spatial sorting – mapping administrative boundaries – property enumeration and property GIS – tax revenue rationalization – resource management

LAB EXERCISE(S):

- Mapping administrative boundaries, city base map generation
- Spatial arrangement of Indian cities and villages
- property enumeration and property GIS
- tax revenue rationalization

UNIT V: APPLICATIONS OF GEOSPATIAL ECONOMICS

9T + 6Lhrs.

Geospatial visualisation techniques in land resource management – water resource management – environmental and social sustainability – mapping distribution of green spaces – GIS utility mapping – automated mapping and facility management AM/FM – site selection for public services – emergency planning and response

LAB EXERCISE(S):

- Land resource management: land use and land cover classification, land capability assessment, urban and regional planning, urban sprawl
- Water resource management: watershed delineation and identification of suitable site for constructing water harvesting structures
- Environmental management: climate change, land surface temperature, sea level rise
- AM/FM – electric and power supply, locating site using visibility analysis
- Disaster management: flood, landslide

REQUIRED SOFTWARE(S):

Tableau Public

QGIS

TEXT BOOK(S):

Burrough, P.A. Donnell, M., and Rachael, A. *Principles of Geographical Information Systems*. 6th edition. New York: Oxford University Press. 2016.

Joseph, G. and Jeganathan, C. *Fundamentals of Remote Sensing* (3rded.). Hyderabad: University Press India Limited. 2017.

Krugman, Paul. *The Spatial Economy: Cities, Regions, and International Trade*. USA: MIT Press. 2001.

Reddy, A.M. *Remote Sensing and Geographical Information System*. 4th edition. Hyderabad: B S Publication. 2012.

Sand, T.M.L. and Keifer, R.W. *Remote Sensing and Image Interpretation*. 6th edition. New Jersey, USA: John Wiley and Sons. 2014.

REFERENCE BOOK(S):

Chaudhuri, J. R. *An Introduction to Development and Regional Planning*. Hyderabad: Orient Longman. 2001.

Chand, M and V.K. Puri. *Regional Planning in India*. New Delhi: Allied Publishers Ltd. 1983.

Heywood, I. Cornelius, S. and Carver, S. *Introduction to Geographical Information System*. 4th edition. Singapore: Pearson Education. 2012.

Hoover, Edgar M. *The Location of Economic Activity*. New York: McGraw-Hill. 1948.

Karimi, H.A. and Hammad, A. *Telegeoinformatics: Location-based Computing and Services*. 1st Edition. Ohio, USA: CRC Press. 2004.

Maantay, J. Ziegler, J. and Pickles, J. *GIS for the Urban Environment*. Redlands, USA: ESRI Press. 2006.

Melnick, A.L. *Introduction to Geographic Information Systems for Public Health*. 1st edition. USA: Aspen Publishers. 2002.

Singh, R. Y. *Geography of settlements*. Jaipur: Rawat Books. 1994.

OPEN EDUCATIONAL RESOURCE(S):**VIDEO:**

Delft University of Technology. (2016, February 15). *Introduction to Remote Sensing and Visible RS*[Video file]. Retrieved from <https://ocw.tudelft.nl/course-lectures/introduction-to-remote-sensing-and-visible-rs/> CC BY NC-SA license.

COs cognitive level and mapping with PSOs

PEC3403TO GEOSPATIAL ECONOMICS				
CO	COGNITIVE LEVEL	PSO		
		1	2	3
CO1	K-1 Understand	2	3	2
CO2	K-3 Apply	3	1	3
CO3	K-4 Analyze	3	1	3
CO4	K-6 Create	3	2	3
CO5	K-6 Create	3	2	3

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

PEC3201EI TAMIL NADU ECONOMY**(THEORY)****COURSE OUTCOMES:****4 hrs./wk.**

On successful completion of the course, the student will be able to

CO1: recognize the resources of Tamil Nadu

CO2: describe the demographic components and its trends

CO3: review the status of agriculture in the region

CO4: identify the performance of industries

CO5: interpret the issues relating to service sector

COURSE CONTENT:**UNIT I: INTRODUCTION****12 hrs.**

Tamil Nadu profile – physical features: soil, rain fall, minerals – natural resources: land, forest, energy, water

UNIT II: DEMOGRAPHIC TRENDS**12 hrs.**

Features of population: family size, sex ratio – age structure – urban and rural population – birth rate – death rate, infant mortality rate – fertility rate – migration

UNIT III: AGRICULTURE**12 hrs.**

Agriculture in Tamil Nadu economy – type of land holding – small farmers – land utilization – cropping pattern, production and productivity, animal husbandry and poultry, fisheries

UNIT IV: INDUSTRY**12 hrs.**

Role of industries in Tamil Nadu economy – issues – industrial production performance – industrial financial institutions – industrial estate, DIC, EPZ, SPZ, SEZ, SIPCOT, SPCO (Export Processing Zone, Special Processing Zone, Special Economic Zone)

UNIT V: SERVICE SECTOR**12 hrs.**

Educational status of Tamil Nadu – health sector – financial sector – power consumption – power generation in Tamil Nadu – types of energy – transport – importance – demand for transportation in Tamil Nadu – media services – kinds – tourism – hotel industry

TEXT BOOK:

Leonard, Arthur Gray. *Tamil Nadu Economy*. New Delhi: Macmillian, 2006.

REFERENCE BOOK(S):

Government of Tamil Nadu. *Human development report of Tamil Nadu: 2017*. New Delhi: Academic Foundation, 2017.

Kurien, C.T. and Josef James. *Economic change in Tamil Nadu: 1960-1970 A regionally and functionally disaggregated analysis*. New Delhi: Allied Publishers, 1979.

Madras Institute of Development Studies. *Tamil Nadu Economy performance and issues*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd., 1988.

Perumalsamy, S. *Economic Development of Tamil Nadu*. New Delhi: S.Chand & Co. Ltd, 1990.

Rajalakshmi, N. *Tamil Nadu Economy*. Mumbai: Business Publishers, 2009.

Tamil Nadu vision document: 2020.

OPEN EDUCATIONAL RESOURCE(S):**eBook:**

Government of Tamil Nadu, State Planning Commission. Twelfth Five Year Plan 2012-17. <http://www.spc.tn.gov.in/fiveyearplans/default.htm>. Accessed 10 October 2020.

PEC3201EITAMIL NADU ECONOMY	
CLASS	II PG HUMANITIES – SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-2 Understand
	K-3Apply
	K-3Apply

PEC3202EI GENDER ECONOMICS**(THEORY)****COURSE OUTCOMES:****4 hrs./wk.**

On successful completion of the course, the student will be able to

CO1: identify gender as a category of analysis

CO2: interpret the measures of gender equity

CO3: analyse gendered labour market structure

CO4: appraise women's role in the social sector

CO5: propose policies for gender mainstreaming and women empowerment

COURSE CONTENT:

UNIT I: CONCEPTS AND THEORETICAL APPROACHES IN GENDER ECONOMICS 12hrs.

Gender – difference between sex and gender – gender as category of analysis – patriarchy and gender-approaches –matriarchy–women in development (WID), women and development (WAD) and gender and development (GAD)

UNIT II: MEASURING GENDER EQUITY 12hrs.

Meaning of gender equity and equality – Gender Equity Index – Gender Inequality Index of UNDP – Gender Status Index – gender in human development – Gender Development Index – Gender Empowerment Measure – gender in social development indicators – OECD Social Institutions and Gender Index (SIGI)

UNIT III: GENDER AND LABOUR MARKET 12hrs.

Sexual division of labour and women's work–analysis of women's work– debates on household labour –labour force participation – factors influencing work participation – occupational segregation and crowding-in-effect – marginalisation of women – wage differentials – market discrimination – sexual harassment – women in agriculture– women in industry– women in services– feminization of work – feminization of poverty – impact of LPG on women – Gender and Environment

UNIT IV: GENDER AND SOCIETY 12hrs.

Gender specific needs and strategic needs– significance of women's education– gender gaps in education– policies for women's education– health and nutrition – skewed sex ratio– causes–gender dimension of NHRM – reproductive rights – reproductive and child health programmes

UNIT V: NATIONAL POLICIES AND NON-STATE INITIATIVES 12hrs.

Gender mainstreaming – engendering development policies– women development programs in India – objectives and methods of gender policy in India – paradigm shift from welfare to empowerment– role of NGOs – development initiatives – role of women's organizations – mobilizing, networking and advocacy – grass root level initiatives – micro finance and micro enterprises – Self Help Groups (SHGs)

TEXT BOOK:

Eswaran, M. *Why Gender Matters in Economics*. New York: Princeton University Press, 2014. Print.

REFERENCE BOOK(S):

Bosarup, Ester. *Women's Role in Economic Development*. London: George Allen and Unwin, 1970. Print.

Krishnarar, Maithreyi and Joy P. Deshmukh. *Gender in Economics*. New Delhi: Ajantha Publishers, 1991.

Loutfi, M. F. (ed.). *Women, Gender and Work*. New Delhi: Rawat Publishers, 2002.

Nelson, A. Julie. *Feminism, Objectivity and Economics*. London: Routledge, 1996.

Sen, A. and J. Drèze. *India: Economic Development and Social Opportunity*. New Delhi: Oxford University Press, 1995.

Slaughter, Anne-Marie. *Unfinished Business: Women Men Work Family*. New Delhi: Penguin Random House, 2016. Print.

Special issues of Economic and Political Weekly.

OPEN EDUCATIONAL RESOURCE(S):**eBook(s):**

Human Development Report 2019 UNDP. <http://report.hdr.undp.org/>. CC by license.

Samuelson, Paul A. and William D. Nordhaus (2010) *Economics. 19th Edition*. New York: McGraw Hill Education. CC by license.

http://fgw-nrw.de/fileadmin/user_upload/Blinde_Flecken_der_Lehrbuchoekonomie_klein.pdf.

VIDEO(S):

“Gender and Economy” *You Tube*. Uploaded by Consortium of Educational Communication, New Delhi, India. <https://youtu.be/oZ4uEke9PLw> - women and work. CC by License.

“Who cares:unpaid care work, poverty and women’s/ girl’s human rights” *You Tube*. <https://youtu.be/VVW858gQHoE> - Labour force participation of women. CC by License.

PEC3202EI GENDER ECONOMICS	
CLASS	II PG HUMANITIES – SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-4 Analyze
	K-5 Evaluate
	K-6 Create

PIH3201EI CHINA STUDIES**(THEORY)****COURSE OUTCOMES:****4 hrs./wk.**

On successful completion of the course, the student will be able to

CO1: recognize the development of political system in China

CO2: relate the state policy of China to its Social Structure

CO3: analyse the core aspects of China’s economic development

CO4: evaluate the role of China in the World

CO5: estimate the impact of China on India and vice versa

COURSE CONTENT:**UNIT I: POLITICAL SYSTEM****12hrs.**

Location – survey of early history, Marx ideas, communist power – long march – cultural revolution – Administrative structure: Communist Party of China, People’s Liberation Army, National Party Congress – Five Generations of Political Leadership in China

UNIT II: SOCIETY AND STATE**12hrs.**

Agrarian Society – Mao’s Model of Socialism: Local Communes, Hukou and Dhanwei System – rural-urban divide – changing demographics, social stratification

UNIT III: ECONOMIC DEVELOPMENT**12hrs.**

Land reforms – Five-Year Plans – great leap forward – reform era – labour – intensive export-oriented industrialization – environmental degradation – SEZs – Economic indicators – GDP, HDI, BoP

UNIT IV: CHINA AND THE WORLD**12hrs.**

Foreign policy – state and non-state global factors – Border issues: conflicts and co-operation – WTO–BRICS–ASEAN–Peaceful rise vs. peaceful development: One Belt One Road initiative – Maritime Silk Road

UNIT V: CHINA AND INDIA**12hrs.**

Early contacts up to 1990 – foreign policy since 1949 – market economy – conflict and co-operation – security concerns – media, literature and regional interest in border areas– Tamil connection with China

TEXT BOOK(S):

Keay, John. *China: A History*. London: Harper Press, 2019. Print.

Sexana, S.K. *History of China*. New Delhi: Omega Publishers, 2013. Print.

REFERENCE BOOK(S):

Chow, C. Gregory. *China's Economic Transformation*. Malden: Blackwell Publishers, 2002. Print.

David, M.D. *Making of Modern China*. Bombay: Himalaya Publishing House, 1993. Print.

David, M.D. *Rise and Growth of Japan*. Bombay: Himalaya Publishing House, 1989. Print.

Jayapalan, N. *History of South East Asia*. New Delhi: Atlantic Publishers and Distributors, 1999. Print.

Jonathan, Fenby. *The Penguin History of Modern China: The Fall and Rise of a Great Power 1850 to the Present*, 2nd ed. London: Penguin, 2013. Print.

Kailash, K. *History and Culture of South East Asia (Modern)*. New Delhi: Sterling Publishers, 1994. Print.

Keay, John. *China: A History*. London: Harper Press, 2009. Print.

Keay, John. *Last Post: The End of Empire in the Far East*. London: Harper Press, 2009. Print.

Kenneth G. Lieberthal, Cheng Li, and Yu Keping. *China's Political Development: Chinese and American Perspectives*. New Delhi: 2014. Print.

Krishnamurthy, V.M. *History of the Far East (1840 – 1970 A.D.)*. Neyyoor: Vijayalakshmi Publications, 1976. Print.

Laurie, J. Sears. *Knowing Southeast Asian Subjects*. Washington: University of Washington Press, 2007. Print.

Lin, Justin Yifu, Fang Cai, and Zhou Li. *The China Miracle: Development Strategy and Economic Reform*. Hong Kong: The Chinese University Press, 2003. Print.

Raj, Hans. *History of South-East Asia*. New Delhi: Surjeet Publications, 2002. Print.

SarDesai, D. R. *South East Asia: Past and Present*. Basingstoke: Palgrave Macmillan, 2004. Print.

Vinacke, Harold M. *A History of the Far East in Modern Times*. Guwahati: EBH Publishers, 2018. Print.

OPEN EDUCATIONAL RESOURCE(S):**eBook:**

Herrmann-Pillath, *China's Economic Culture*, London: Routledge, 2017, <https://doi.org/10.4324/9781315884653> CC BY licence.

IMAGE(S):

Peter K. Bol and William C.Kirby. “China: Traditions and Transformations”, 2012OER Commons, Retrieved from <https://www.oercommons.org/courses/china-traditions-and-transformations>CC BY Attribution Licences.

“Geography of China”.Map,<https://geology.com/world/china-satellite-image.shtml>accessed on 14 October 2020. CC BY license.

VIDEO:

“Implications of the Border Clash Between India and China(Global Connection)”.*YouTube*. Uploaded by Dr.RoopmatiKhandekar, 25 June 2020, CC BY Attribution Licences.

<https://www.youtube.com/watch?v=eBvD8K2vDy0>

PIH3201EICHINA STUDIES	
CLASS	II PG HUMANITIES – SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-3 Apply
	K-4 Analyse
	K-5 Evaluate

PEC3201EPDATA VISUALIZATIONFOR ECONOMICS**(LAB)****COURSE OUTCOMES:****4hrs./wk.**

On successful completion of the course, the student will be able to

CO1: discuss the importance and the use of data visualization

CO2: constructsuitable chartsfor univariate data

CO3: analyze the bivariate relationship between economic variables using visualizations

CO4: constructcharts and graphs for multivariate data and cluster analysis

CO5: design dashboards, interactive maps and infographics

UNIT I: INTRODUCTION TO DATA VISUALIZATION**12 hrs.**

Data–askingquestions from data – importanceof visualizing data – brief history of data visualization– basic principles – Visual cues: length, colors, slope, area, volume – selection of chart – selection of color hues – chart elements and chart styles – recentdevelopments in data visualization – application of visualization in economic theories

UNIT II: VISUALIZATION OF UNIVARIATE DATA**12 hrs.**

Analysis of a single economic variable – summarizing data using descriptive statistics –bar chart, column charts, bullet chart, waterfallchart, line chart, step chart, area chart, steam graph, pictogram – treemaps for hierarchical data –visualizingpatterns over time – histogram, graphs,sparklines– trendlines– visualizingproportions– pie chart, donut chart, gauge chart,thermometerchart – visualizing distribution – histogram – density plot – dot plot – mean plot – box plot– visualizing differences – heatmaps – visualizing spatial data – choropleth map – interactivemap – animations

UNIT III: VISUALIZATION OF BIVARIATE DATA**12 hrs.**

Bivariate data: visualizing relationships between economic variables – summarizing data using correlation and regression – line graphs, histogram, stacked columns, band charts – scatterplots – hex plot – Gantt chart

UNIT IV: VISUALISATION OF MULTIVARIATE DATA**12 hrs.**

Multivariate data: star plot – interactive scatterplot – scatterplot matrix – cluster analysis – mosaicplot – multi-axes plots – bubble chart – bubble plot

UNIT V: STORYTELLING WITH DATA**12 hrs.**

Storytelling – meaning – geospatial displays – interactive maps – infographics – designing dashboards – pivot charts – animated displays

LAB EXERCISE(S):

Identify the kinds of visualization used in various economic theories

Select the type of chart and design the chart for data on poverty

Create visualization for Gross Domestic Product of India over the last decade

Visualize sectoral contribution of National Income

Show the differences between the per capita incomes of countries on a map

Analyze the relationship between income and consumption of 15 households

Construct a suitable visualization for clustering age, family size, income and education level of households in a village

Create an infographic on price fluctuations of any product of your choice

Submit a report on an economic development issue. Create a series of data visualization techniques based on your selected data source. The project is a demonstration of your effort, knowledge, and ability to tell an interesting story with data.

TEXT BOOK:

Yau, Nathan. *Visualize This: The Flowing Data Guide to Design, Visualization, and Statistics*. Indianapolis: Wiley Publishing Inc., 2011.

REFERENCE BOOK(S):

Few, Stephen. *Information dashboard design: The effective visual communication of data*. Sebastopol: O'Reilly. 2006.

Fry, Ben. *Visualizing Data*. 1st Edition. Sebastopol: O'Reilly Media Inc., 2007.

Koop, Gary. *Analysis of Economic Data*. 4th Edition. New Jersey: Wiley. 2013.

Levine, M. David, Kathryn A. Szabat and David Stephan. *Statistics for Managers Using Microsoft Excel*. 8th Edition. London: Pearson. 2016.

Sosulski, Kristen. *Data Visualization Made Simple: Insights into Becoming Visual*. New York: Routledge. 2018.

Yau, Nathan. *Data Points: Visualization that means something*. Indianapolis: Wiley. 2013.

OPEN EDUCATIONAL RESOURCE(S):**IMAGE:**

Alexander, Mary. Local Government in the Free State. 2018 Online Image. *Southafrica.info*. Web. 10 June 2018. Retrieved from <https://southafrica-info.com/land/infographic-local-government-municipalities-free-state-south-africa/>, CC by 4.0.

VIDEO(S):

“R data visualisation with Rstudio: heatmaps.” *Youtube*. Uploaded by UQ Library. 13 June 2019, <https://www.youtube.com/watch?v=V-IRkO4NIHU>. CC by License.

“What is Data Visualization?” *Youtube*. Uploaded by The Audiopedia. 28 December 2016, <https://www.youtube.com/watch?v=JatAUENUJcQ>. CC by License.

“Data Visualisation-04-Scatter plots.” *Youtube*. Uploaded by Kevin Dunn. 20 January 2015, <https://www.youtube.com/watch?v=JB8UP1JWNXQ>. CC by License.

“Nyall Dawson: QGIS for Exploratory Data Analysis and Visualisation.” *Youtube*. Uploaded by FOSS4G SotM Oceania. 26 November 2018, <https://www.youtube.com/watch?v=a0cVLzbEOig>. CC by License.

“Big Data Mapping: Modern Tools for Geographic Analysis and Visualization.” *Youtube*. Uploaded by Berkeley Institute for Data Science (BIDS). 20 February 2015, <https://www.youtube.com/watch?v=lfZ6GINpQTo>. CC by License.

“Data Visualization & Storytelling: Practical Ideas to Build a Capability.” *Youtube*. Uploaded by Felipe Rego. 2 October 2020, <https://www.youtube.com/watch?v=rCwSH7S7z8w>. CC by License.

REQUIRED SOFTWARE(S) (OPEN SOURCE):

Spreadsheet

R

Tableau Public

QGIS

OPTIONAL SOFTWARE(S):

Adobe illustrator

Javascript

Microsoft BI

PEC3201EP DATA VISUALIZATION FOR ECONOMICS	
CLASS	II PG HUMANITIES – SEMESTER III
Cognitive Level	K-2 Understand
	K-3 Apply
	K-4 Analyze
	K-6 Create
	K-6 Create

PEC4504CM INTERNATIONAL ECONOMICS

(THEORY)

COURSE OUTCOMES:

6 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: recall the theories of international trade
- CO2: discuss the recent theories of international trade
- CO3: identify the effect of economic growth on international trade
- CO4: analyze the mechanism of balance of payments
- CO5: appraise foreign aid and MNCs

COURSE CONTENT:

UNIT I: THEORIES OF INTERNATIONAL TRADE

18 hrs.

Absolute cost theory – Comparative cost theory – Modern theory of factor endowments – Leontief Paradox – Factor price equalization theorem – Factor intensity reversals: Stolper-Samuelson theorem and the Rybczynski theorem

UNIT II: NEW THEORIES OF INTERNATIONAL TRADE

18 hrs.

Karvis theory of availability – Linder's theory of volume of trade and demand pattern – Posner's technological gap theory – Vernon's product life cycle theory – Kenen's theory of human capital – Intra-industry trade – National competitive advantage theory – Global strategic rivalry theory

UNIT III: INTERNATIONAL TRADE AND ECONOMIC GROWTH

18 hrs.

Effects of Growth on Trade, Terms of Trade, Production – trade and welfare – immiserizing growth – Prebisch-Singer Thesis – Myrdal- Theory of international reserves

UNIT IV: BALANCE OF PAYMENT AND POLICY

18 hrs.

Balance of Payments – importance – adjustment mechanism: elasticity, absorption approach and monetary approach – expenditure changing monetary and fiscal policy – monetary and fiscal policies for internal and external balance: Swan Model and Mundallian Model – expenditure switching policies and expenditure reducing policies – foreign trade multiplier

UNIT V: FOREIGN DIRECT INVESTMENTS, FOREIGN AIDS AND MNCs

18 hrs.

Foreign aid – types – advantages and disadvantages – factors determining foreign aid – Foreign Direct investment: types – India's FDI Policy – MNCs: features – advantages – disadvantages

TEXT BOOK:

Rana, K.C and Verma, K.N. *International Economics*. Jalandhar: Vishal Publishing Company, 2017. Print.

REFERENCE BOOK(S):

Carbaugh, J. Robert. *International Economics*. New Delhi: Thomson South-Western publishers, 2014.

Cherunilam, Francis. *International Economics*. New Delhi: Pearson, 2020. Print

Gandolfo, Giancarlo. *International Trade and Policy*. New Delhi: Springer publisher, 2006.

Jhingan, M.L. *International Economics*. New Delhi: Vrinda Publications, 2017. Print.

Karmakar, K. Asim. *Balance of Payments, Theory and Policy-the Indian experience*. New Delhi: Deep & Deep publishers, 2010.

Krugman, Paul, Maurice Obstfeld and Marc Melitz. *International Economics Theory and Policy*. New Delhi: Palgrave Publisher, 2017. Print.

OPEN EDUCATIONAL RESOURCE(S):

eBOOK(S):

Andy Schmitz. *International Economics: Theory and Policy*. Saylor Academy, 2012, OER Commons, https://saylordotorg.github.io/text_international-economics-theory-and-policy/index.html. Accessed 7 February 2021. CC BY-NC-SA.

Steve Suranovic. *International Economics: Theory and Policy*. Saylor foundation, 2012, OER Commons, <https://open.umn.edu/opentextbooks/textbooks/international-economics-theory-and-policy>, CC BY-NC-SA.

VIDEO(S):

"Heckscher-Ohlin Theory of Trade". *ECON307: International Trade*. Uploaded by Saylor.org. 7 February 2021, <https://learn.saylor.org/mod/page/view.php?id=13551>. CC BY license.

"International trade: Absolute and comparative advantage". *You Tube*. Uploaded by Werner Lost. 4 January 2011, <https://youtu.be/Vvfzaq72wd0>. CC BY license.

COs cognitive level and mapping with PSOs

PEC4504CM INTERNATIONAL ECONOMICS				
CO	COGNITIVE LEVEL	PSO		
		1	2	3
CO1	K-1 Remember	2	1	1
CO2	K-2 Understand	2	3	1
CO3	K-3 Apply	2	3	2
CO4	K-4 Analyse	3	2	2
CO5	K-5 Evaluate	2	3	2

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

**PEC4505CM HISTORY OF ECONOMIC THOUGHT
(THEORY)**

COURSE OUTCOMES:**6 hrs./wk.**

On successful completion of the course, the student will be able to

- CO1: recognize the evolution of pre-classical economic thought
- CO2: review the significant contributions made by classists and Marx
- CO3: analyse the development of post classical ideas
- CO4: compare the contributions of Keynes and new classical economics
- CO5: discuss Indian contribution to economic thought

COURSE CONTENT:**UNIT I: PRE-CLASSICAL THOUGHT****18 hrs.**

Greek Economic thought – Plato, Aristotle – Mercantilism – main principles – Physiocracy:
Natural order – agriculture and net product – social classes

UNIT II: CLASSICAL ECONOMISTS AND MARX**18 hrs.**

Adam Smith: division of labour – theory of value – laissez faire – canons of taxation – Ricardo – theory of rent – comparative advantage theory of trade – Malthus: principle of population – proposals to check population growth – Ricardo-Malthus controversy on Say's law of markets – Marx: theory of surplus value – breakdown of the capitalist system

UNIT III: NEO-CLASSICAL AND INSTITUTIONALIST THOUGHT**18 hrs.**

The marginalist revolution – Marshall: time period – partial equilibrium – consumer's surplus – representative firm – significance of Marshall in the evolution of economics – Economics of welfare A. C. Pigou – institutional economics – Veblen – conspicuous consumption – theory of leisure class – the workmanship and predatory instincts

UNIT IV: KEYNESIAN REVOLUTION AND MODERN THOUGHT**18 hrs.**

Keynesian Revolution – Schumpeter’s theory of development – Hicks theory of trade cycle –
New Classical economics – rational expectation hypothesis

UNIT V: INDIAN ECONOMIC THOUGHT**18 hrs.**

Economic Policies in Kautalya’s Arthasasthra – Thiruvalluvar – Naoroji’s drains theory –
Gandhian Economics – sarvodaya – trusteeship – views on industrialisation – J. C. Kumarappa
– Ambedkar – Amartya Sen’s contributions to Economics

TEXTBOOK:

Hajela, T.N. *History of Economic Thought*. 18th Edition, New Delhi: Ane Books Pvt Ltd, 2018.

REFERENCE BOOK(S):

Ganguli, B.N. *Indian Economic Thought: Nineteenth Century Perspectives*. New Delhi: Tata McGraw-Hill, 1977.

Hunt, E.K. and Mark Lautzenheiser. *History of Economic Thought: A Critical Perspective*. 3rd Edition, United Kingdom: Routledge, 2011.

Sandmo, Agnar. *Economics Evolving: A History of Economic Thought*. United States: Princeton University Press, 2012.

OPEN EDUCATIONAL RESOURCE(S):**VIDEO:**

“Rational Expectation Hypothesis”. *You Tube*. Uploaded by MHRD Official. 2nd April 2018, CC BY license, https://www.youtube.com/watch?v=MfOs_e802Ys&feature=youtu.be.

TEXT:

“Karl Marx's theory”. Uploaded by IGNOU,
<http://egyankosh.ac.in/bitstream/123456789/24517/1/Unit-15.pdf>

COs cognitive level and mapping with PSOs

PEC4505CM HISTORY OF ECONOMIC THOUGHT				
CO	COGNITIVE LEVEL	PSO		
		1	2	3
CO1	K-1 Remember	1	2	1
CO2	K-2 Understand	1	2	1
CO3	K-4 Analyse	1	1	1
CO4	K-5 Evaluate	1	2	1
CO5	K-6 Create	1	1	1

Strongly correlated (3) Moderately correlated (2) Weakly correlated (1)

PEC4506CM INDIAN ECONOMIC DEVELOPMENT AND POLICY

(THEORY)

COURSE OUTCOMES:

6 hrs./wk.

On successful completion of the course, the student will be able to

CO1: recognize the planned development process in India after independence

CO2: identify the agricultural and industrial issues of the economy

CO3: relate sectoral growth and the service sector

CO4: analyse the external sector of India

CO5: examine the Economic and environmental issues

COURSE CONTENT:

UNIT I: GROWTH AND STRUCTURAL CHANGE

18 hrs.

Indian economy after independence – mixed economy – policy of planned development – two phases of growth (1950-1980 and 1980 onwards) – economic crisis and reforms of 1991 – structural change in Indian economy – jobless growth – paradigm shift from planned economy – NITI Aayog

UNIT II: AGRICULTURAL AND INDUSTRIAL SECTORS

18 hrs.

Performance of agricultural sector – factors determining agricultural growth – factors underlying food inflation – anti-inflationary policies – agricultural subsidies and food security – Review of industrial growth: public sector – private sector – dualism in Indian manufacturing – industrial sickness

UNIT III: SERVICE SECTOR

18 hrs.

Growth and contribution of services in India – reasons for rapid growth in services – Education: trends and problems – Transport: salient features and problems of rail, water and air transport – Energy crisis: causes, consequences and measures – India's IT and ITES industry – foreign trade in services – services led growth

UNIT IV: EXTERNAL SECTOR

18 hrs.

Composition and direction – recent foreign trade policy – SEZ – BoP on current account since independence – factors responsible for BoP crisis – convertibility of rupee in India – FDI – MNCs and foreign collaboration – external debt position in India – debt trap controversy

UNIT V: ISSUES IN INDIAN ECONOMY AND POLICIES

18 hrs.

Economic issues: poverty and inequality – impact of growth on poverty – poverty alleviation programs – rising income inequalities after 1991 – Black Money: causes – impact – Demonetization: rationale – impact – environmental issues – SDGs – policies and reforms in India

EXPERIENTIAL LEARNING

On the Spot Study

Preparation of article summary from news clippings/journal

TEXT BOOK(S):

Datt, Gaurav and Ashwani Mahajan. *Indian Economy*. New Delhi: S. Chand and Company Limited, 2018.

Puri, V.K. and Misra S.K. *Indian Economy*. 38th Revised and Updated Edition. New Delhi: Himalaya Publishing House, 2020.

REFERENCE BOOK(S):

Ahluwalia, Isher Judge and I.M.D. Little. Ed. *India's Economic Reforms and Development*. 2nd Edition. New Delhi: Oxford University Press, 2012.

Articles from Economic and Political weekly.

Basu, Kaushik and Annemie Maertens. *The New Oxford Companion to Economics in India*. New Delhi: Oxford University Press, 2012.

Dreze, Jean and Amartya Sen. *An Uncertain Glory: India and its Contradictions*. United States: Princeton University Press, 2013.

Economic Survey (Annual issues). Ministry of Finance, New Delhi: Government of India.

Ghosh, Jayati, C.P. Chandrasekhar and Prabhat Patnaik. *Demonetization Decoded: A Critique of India's Currency Experiment*. New Delhi: Routledge Focus, 2020.

Goyal, Ashima. Ed. *Handbook of the Indian Economy in the 21st Century: Understanding the Inherent Dynamism*. New Delhi: Oxford University Press, 2014.

Kapila, Uma. Ed. *Indian Economy Since Independence: A Comprehensive and Critical Analysis of India's Economy, 1947-2019*. New Delhi: Academic Foundation, 2019.

Kumar, Arun. *Demonetization and Black Economy*. New Delhi: Penguin Random House India Pvt. Ltd., 2017.

Reddy, R. Rammanohar. *Demonetization and Black Money*. Hyderabad: Orient Blackswan, 2017.

Subramanian, Arvind. *India's Turn: Understanding the Economic Transformation*. New Delhi: Oxford University Press, 2009.

OPEN EDUCATIONAL RESOURCE(S):**VIDEO(S):**

"Manufacturing Sector Sees Worst Growth Rate in 4 Decades: Surajit Mazumdar", Uploaded by NewsClickin, Sep 23, 2019, Creative Commons Attribution license (reuse allowed), https://www.youtube.com/watch?v=B1GQ5RlziU0&feature=emb_logo.

"GST & Demonetisation Disproportionately Affected Informal Sector: Jayati Ghosh", Uploaded by NewsClickin, Sep 20, 2019, https://www.youtube.com/watch?v=Up1Q7e2y_v0, Creative Commons Attribution license (reuse allowed).

COs cognitive level and mapping with PSOs

PEC4506CM INDIAN ECONOMIC DEVELOPMENT AND POLICY				
CO	COGNITIVE LEVEL	PSO		
		1	2	3
CO1	K-2 Understand	3	2	1
CO2	K-3 Apply	3	3	1
CO3	K-3 Apply	3	3	1
CO4	K-4 Analyse	3	3	1
CO5	K-4 Analyse	3	3	1

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

PEC4501CP COMPUTER APPLICATIONS IN ECONOMICS

(LAB)

COURSE OUTCOMES:

5 hrs./wk.

On successful completion of the course, the student will be able to

- CO1: practice the basic operations in a spreadsheet
- CO2: construct suitable graphs and charts for the given data
- CO3: deduce the data through descriptive statistics
- CO4: estimate the cause and effect relationship among the variables
- CO5: build economic models to draw inferences

COURSE CONTENT:

UNIT I: TEXT AND DATABASE MANAGEMENT

15 hrs.

Text management basics – formatting of text – format painter – creating tables – spreadsheet basics: formatting, modifying numbers and dates, drawing tools – Formulas and function: constructing formulas, using build-in functions – macro – protecting data – organising, grouping and consolidating data – pivot tables

UNIT II: GRAPHS AND CHARTS

15 hrs.

Pivot charts – bar diagrams, pie charts, area charts – line diagrams, histograms, scatter plots, radar charts, surface charts, bubble charts, stock charts – frequency graphs, Ogive, whiskers box plot, Lorenz curve

UNIT III: DATA ANALYSIS-I

15 hrs.

Naming variables – coding and recoding of data – arithmetic calculations with variables – descriptive statistics: frequencies, descriptive, explore, cross tabulation – compare means: one sample t-test, independent sample t-test, paired sample t-test, one-way ANOVA – correlation: bivariate, partial

UNIT IV: DATA ANALYSIS-II

15 hrs.

Regression: linear, curve estimation, multiple regression – violation of OLS assumptions – test for heteroscedasticity, multicollinearity and autocorrelation – time series – exponential smoothing – auto regression – seasonal decomposition – stationarity and non-stationarity – unit root test – cointegration

UNIT V: DATA ANALYSIS-III

15 hrs.

Non-parametric test: chi-square, bi-nominal – logit, probit and tobit models – classification vs. clustering – K-means cluster, hierarchical cluster – discriminant function analysis

Required Software (Open Source)

- Word processing software
- Spreadsheet
- R
- Python

REFERENCE BOOK(S):

- Anderson R. David, Dennis J. Sweeney and Thomas A. Williams. *Statistics for Business and Economics*. 12th Edition. New Delhi: South-Western College Publication, 2017.
- Davis, Glyn and Branko Pecar. *Business Statistics- Using Excel*. New York: Oxford University Press, 2013.

Elhance, D. N. Elhance Veena and Aggarwal B. M. *Fundamentals of Statistics*. New Revised Edition. New Delhi: Kitab Mahal, 2018.

Grant, Robert. *Data Visualization: Charts, Maps, and Interactive Graphics*. Boca Raton: CRC Press, 2019.

Gujarati, Porter and Gunasekar. *Basic Econometrics*. 5th edition. New Delhi: McGraw Hill Education Private Limited. 2011.

Gutttag, John. *Introduction to Computation and Programming Using Python: with Application to understanding Data*. Cambridge: MIT Press. 2016.

Lipschutz M. Martin and Seymour Lipschultz. *Theory and Problems of Data Processing: Schaum's Outline Series*. Singapore: McGraw-Hill Company, 1989.

Nussbaumer, Cole. *Storytelling with Data*. Danvers: Wiley Publications. 2015.

Pal, Avishek and Prakash PKS. *Practical Time Series Analysis*. Birmingham: Packt Publishing. 2017.

Sandler, Corey, Tom Budgett and Jan Weingarten. *Teach Yourself Office 97 for windows*. New Delhi: BPB Publications, 1997.

Whigham, David. *Business Data Analysis Using Excel*. New Delhi: Oxford University Press, 2008.

Yau, Nathan. *Visualize This: The Flowing Data Guide to Design, Visualization, and Statistics*. Indianapolis: Wiley Publishing Inc., 2011.

OPEN EDUCATIONAL RESOURCE(S):

VIDEO(S):

Using Excel Data Analysis for Descriptive Statistics. CC BY license.

<https://www.youtube.com/watch?v=CdRDeqv90hk>.

Regression Excel. <https://www.youtube.com/watch?v=EgoaLLsMso>. CC BY license.

COs cognitive level and mapping with PSOs

PEC4501CP COMPUTER APPLICATIONS IN ECONOMICS				
CO	COGNITIVE LEVEL	PSO		
		1	2	3
CO1	K-3 Apply	3	1	3
CO2	K-3 Apply	3	2	3
CO3	K-4 Analyse	3	2	3
CO4	K-5 Evaluate	3	3	3
CO5	K-6 Create	3	3	3

Strongly correlated (3), Moderately correlated (2), Weakly correlated (1)

**PEC0201CD ECONOMICS FROM CHRISTIAN PERSPECTIVE
(THEORY)**

COURSE OUTCOMES:

On successful completion of the course, the student will be able to

- CO1: identify the interaction between Economics and Christian Religion
- CO2: infer Biblical views on land, labour and capital
- CO3: interpret welfare values from Christian scripture
- CO4: build a sense of stewardship in management of resources
- CO5: relate the principles of Christianity and Economics

COURSE CONTENT:

UNIT I: INTERACTIONS BETWEEN ECONOMICS AND RELIGIONS

1. Important concepts, theories and principles of economics from Capitalistic, Marxist, Socialistic and Gandhian perspectives
2. Religions with written Scriptures and unwritten oral traditions and links with economics and creating world views for their religious communities

UNIT II: LAND: OWNERSHIP, DISTRIBUTION, AGRICULTURE AND PEASANTS

1. Land in Capitalistic, Marxist, Gandhian and Socialist Economics
2. Land ownership, distribution, agriculture, debts, mortgage and Jubilee in the Bible

READING(S):

Text: Gen. 1-2; Lev. 25:1-29; Num. 26:51-56; 27:1-11; 36:1-6; Dt. 26:1-11; 19:14; 1 Kings 21:1-19; Prov. 22:28; Isa. 5:8-10; Micah 4:1-4; Matt. 6:25-34.

LABOUR: DIVISION OF LABOUR, SLAVERY, WAGES, LAWS OF LABOUR

1. Labour, Service, Wages, Relationship between the employer and employee in Economics
2. Division of Labour, Kinds of Labour, Wages, Labour Laws in the Bible.

READING(S):

Text: Gen. 2:15; Ex. 1-3; 21:1-20; Dt. 15:12-18; 21:10-14; Mt. 9:35-37; Prov. 22:29; Matt. 21:32-41; 24:45-51; Romans 13:1-7; Philemon 1:8-16; 2 Thes. 3:6; James 2:14-25; Eph. 6:5-9; Dt. 21:10-14.

CAPITAL: PROFIT, WEALTH, TAXES, DEBT

1. Capital, business, wealth, poverty and debts in economics
2. Money, wealth, poverty, debts and justice in Christian Scripture

READING(S):

Text: Ex. 22:7-8; Dt. 15:1-11; Prov. 22:22; 29:10-13; Matt. 17:24-27; 22:15-22; 25:14-30; 1 Tim. 6:17-19; James 1:9-11; 5:1-6; 2 Cor. 8.

UNIT III: KINGDOM VALUES, SHARING OF RESOURCES AND WELFARE

1. Values of welfare in the understanding of Capitalism, Marxism, Socialism and Gandhism.
2. Values of Welfare in Christian Scripture.

READING(S):

Text: Gen. 1:26-28; Isa. 11:1-9; Matt. 5:19-21; 13:1-53; 6:1-4.; 2 Cor. 8

UNIT IV: STEWARDSHIP, RESOURCE MANAGEMENT AND DEVELOPMENT

1. Resource Management – Objectives, goals and results in different economics
2. Resource management as Stewardship and for Development in the Christian perspective.

READING(S):

Text: Gen. 1:28; 2:15; 41:37-57; Ex. 23:10-13; 23:6-9; Dt. 19:14; Prov. 29:14-16; 31:10-31; Dan. 6:1-5; Amos. 2:6-8; 5:24; Micah 4 :1-5; Matt.5:40; 6:24; 12:1-8; Rom. 15:26; 2 Cor. 9:13; Heb. 13:16.

UNIT V: INTERACTIONS BETWEEN ECONOMICS AND CHRISTIANITY

1. Identifying the commonalities and differences between the teachings of Economics and Christianity
2. Deriving and formulating Christian Economics out of the study

BIBLIOGRAPHY:**PRIMARY SOURCE(S):**

1. Writings of the Economists like Adam Smith, Freud, Karl Marx, Gandhi.
2. Christian Scripture – the Bible.

SECONDARY SOURCE(S):

Samuelson – **Principles of Economics**

BOOK(S)/ARTICLE(S):Unit – I

J.Pathirappaly and TD Felix.

ASSIGNMENT (1500 WORDS) – any one of the following:

1. Compare and Contrast the basic concepts and principles of economics of Capitalism, Marxism, Socialism, Gandhism.

BOOK(S) / ARTICLE(S):Unit - II

1. A.R. Desai, **Agrarian Movements and Peasant Struggles in India**,
2. Chris Wright, **God's People and God's Land**
3. J.B. Jeyaraj, '**Siding with the Landless**' in **Mission 2000**, and '**Jubilee and Society**' in **LDC Golden Jubilee Souvenir**, 1998.

ASSIGNMENT (1500 WORDS) – any one of the following:

1. Explain the economics of land ownership, distribution, agriculture and peasant struggles in the Christian Scripture.

BOOKS / ARTICLE(S):

1. Bryant Myers, **Walking with the poor: Transformative Development**. Orbit Books, New York, 1999.
2. Ken Gnanakkan, **Kingdom Concerns**, TBT Journal, Bangalore
3. Bas Wielenga, **Biblical Concept of Labour**, TTS, Madurai.
4. Jayaraj J.B., **Jubilee and Society**, Lady Doak College, Golden Jubilee Souvenir.

ASSIGNMENT (1500 WORDS) – any one of the following:

1. Discuss the biblical understanding of labour and their rights.

BOOK(S)/ARTICLE(S):

1. John Mohan Razu, **Globalisation as victimization: A critique in the light of the Jubilee Motif – The case of India**, Bible speaks Today (ed. D.J. Muthuanayagam), Bangalore, UTC, 2000.
2. James David, **The Backlash against Globalisation**, Dimensions of Globalisaion., pp. 35-38, (eds. James David and John Desrochers), Bangalore :CSA, 1991.
3. Varghese George, **The Politics of Globalisation**, Dimensions of Globalisation, pp. 47-49.

ASSIGNMENT (1500 WORDS) – any one of the following:

1. Discuss the understanding of money, wealth and poverty in Christianity.

BOOK(S)/ARTICLE(S): Unit – III

1. Gandhi, M.K., **Satyagraha in South Africa**, Ahmedabad, NPH, 1995.
2. Gandhi, M.K., **Hind Swaraj**, Ahmedabad, NPH, 1995.
3. Thanzura, **Theology of Development**, ATC, Bangalore, 2001.

ASSIGNMENT (1500 WORDS) – any one of the following:

1. What is the Kingdom of God? What are the values of Kingdom of God? How these values will be established in society?

BOOK(S)/ARTICLE(S):Unit – IV

Chris Wright, **Family and Land**, UK

Arputhamoorthy, J.E. M., **Environmental Economics**, TBT Journal, Bangalore. Bryant Myers, **Walking with the poor Transformative Development**, Orbit Books, New York, 1999.

Abraham, K.C., **Development: Theological and Ethical Reflections**, BTF, UTC, Vol.30, Sept-Dec.1998. pp. 16-23.

ASSIGNMENT (1500 WORDS) - any one of the following:

1. Discuss the biblical understanding of resource management for economic development.

REFERENCE(S):Unit -V

1. Scholars writings on the Economists and their theories
2. Dictionaries of Economics
3. Biblical Commentaries
4. Biblical Dictionaries

ASSIGNMENT (1500 WORDS) - any one of the following:

1. Write briefly the principles and practices of Christian Economics out of your study of this course and explain how this economics can contribute for egalitarian society and economic development.

OPEN EDUCATIONAL RESOURCE(S):

VIDEO(S):

“Stewardship Economics: Work in the Larger Economic Frame Greg Foster.” *YouTube*. Uploaded by Fath@Work Summit. 22 December 2014, <https://www.youtube.com/watch?v=yuw56pyf8Bs>. CC BY license.

“Principles of Good Stewardship.” *YouTube*. Uploaded by BibleTalk.tv. 17 September 2015, <https://youtu.be/-bMZuuJVNxU>. CC BY license.

“God and Our Money.” *YouTube*. Uploaded by In Touch Ministries. 27 April 2019, <https://youtu.be/HC-zhWlIC5w>. CC BY license.

“The Disruption of Work: A Christian Take on the New Economy.” *YouTube*. Uploaded by Fath@Work Summit. <https://youtu.be/DRVtEqmBBI>. CC BY license.

PEC0201CDECONOMICS FROM CHRISTIAN PERSPECTIVE	
CLASS	II PG –SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-3 Apply
	K-6 Create
	K-6 Create

PEC0202CD ISSUES IN THE GLOBAL ECONOMY (THEORY)

COURSE OUTCOMES:

On successful completion of the course, the students will be able to

- CO1: recognise the significance of **Sustainable Development Goals in the** global economy
- CO2: identify the issues of developed economies
- CO3: demonstrate an understanding of developing economies
- CO4: analyse the economic crisis faced by less developed countries
- CO5: deduce the economic consequences of relation between countries

COURSE CONTENT:

UNIT I: INTRODUCTION TO THE GLOBAL ECONOMY

National economies vs. global economies –global growth – poverty, inequality and well-being – environment and climate change – Sustainable Development Goals (SDGs)

UNIT II: ISSUES OF DEVELOPED ECONOMIES

Global trade wars –declining fertility – rising income inequalities – financial crises– subprime mortgages – economic bubbles –sluggish economic growth– debt overhang– rising protectionism

UNIT III: ISSUES OF DEVELOPING ECONOMIES

Economic slowdown–infrastructure bottlenecks – overdependence on developed countries–large informal sectors – low labour productivity growth – income inequalities – unemployment –political tensions and instability – economic exclusion

UNIT IV: ISSUES OF UNDERDEVELOPED ECONOMIES

Underutilisation of natural and human resources– natural resources curse– industrial diversification – capital deficiency –mass illiteracy– elevated public debt– extreme poverty –primitive technology use– weak private investments – low standard of living– incompetent local governance – political instability

UNIT V: INTERNATIONAL ECONOMIC AND POLITICAL RELATIONS

Global production and outsourcing – spillover effects –Trade disputes and negotiations – consequences of global financial crisis –foreign aid and capital – multilateralism and international cooperation –international organisations and global governance

SUGGESTED CASE STUDIE(S):

- Trade costs of Exporters in Africa
- Corporate debt in China
- U.S. Financial crisis
- US trade war
- Dutch Tulip Mania
- Asian Tiger Economies
- Economic slowdown in India
- Palestinian economy and political instability
- Africa and industrial diversification
- Low employment of resources in Bangladesh

Poverty in Sierra Leone
India – the highest benefactor of foreign aid
IMF's role in international cooperation
US-China trade disputes
ASEAN multilateralism

TEXT BOOK:

Daniels, P. Joseph and David D. Van Hoose. *Global Economic Issues and Policies*. 4th Edition. London: Routledge. 2017.

REFERENCE BOOK(S):

Das, K. Debendra. *Globalisation and Development Experience and Challenges*. New Delhi: Deep & Deep Publications, 1999.

David R. Fred. *Strategic Management: Concepts and Cases*. 9th Edition. New Delhi: Pearson Education, 2003.

Dreze, Jean and Amartya Sen. *India: Economic Development and Social Opportunity*. New Delhi: Oxford University Press, 1995.

Stutz, Frederick and Anthony R. de Souza. *The World Economy: Resources, Location, Trade and Development*. 3rd Edition. New Jersey: Prentice Hall, 1998.

REFERENCE ARTICLE(S):

Addison, Tony, and Alan Roe. *Extractive Industries: The Management of Resources as a Driver of Sustainable Development*. WIDER Studies in Development Economics. Oxford, United Kingdom: Oxford University Press. 2018.

Angus Maddison. Introduction and Summary. *In The World Economy*. Paris: OECD, pp. 19-28. 2006.

Ball, Laurence M. Long-term damage from the Great Recession in OECD countries. *European Journal of Economics and Economic Policies: Intervention*, vol. 11, No. 2 (September), pp. 149-160. 2014.

Bourguignon, Francois. The growth elasticity of poverty reduction: explaining heterogeneity across countries and time periods. *In Inequality and Growth: Theory and Policy Implications*. Cambridge, Massachusetts: MIT Press. 2003.

Caldara, Dario. The economic effects of trade policy uncertainty. *Journal of Monetary Economics*(November). 2019.

Guillemette, Yvan, and David Turner. *The long view: scenarios for the world economy to 2060*. OECD Economic Policy Papers, No. 22 (July). Paris: OECD Publishing. 2018.

International Labour Organization (ILO). *Guidelines for a Just Transition towards Environmentally Sustainable Economies and Societies for All*. Geneva: International Labour Office. Available at https://www.ilo.org/wcmsp5/groups/public/---ed_emp/---emp_ent/documents/publication/wcms_432859.pdf. 2015.

Nicita, Alessandro. *Trade and trade diversion effects of United States tariffs on China*. UNCTAD Research Paper No. 37. Geneva. Available at https://unctad.org/en/PublicationsLibrary/ser-rp-2019d9_en.pdf. 2019.

World Economic Forum. *Thinking Strategically: Using Resource Revenues to Invest in a Sustainable Future*. Geneva, February. Available at http://www3.weforum.org/docs/WEF_Thinking_Strategically.pdf. 2019.

OPEN EDUCATIONAL RESOURCE(S):**IMAGE:**

Allispossible.org.uk. It's the economy, stupid!. 2008 Online Image. *Flickr*. Web.24 July 2008.
Retrieved from <https://www.flickr.com/photos/60364452@N00/2698573338>, CC by 2.0.

VIDEO(S):

"Global Economic Outlook." *Youtube*. Uploaded by World Economic Forum. 26 January 2018,
<https://www.youtube.com/watch?v=4wt-zgOSmTo>. CC by License.

"International Monetary System: implications for developing countries." *Youtube*. Uploaded by UNCTADOnline. 3 September 2018, <https://www.youtube.com/watch?v=l47yBLae8BY>. CC by License.

"Infrastructure and Urban Development." *Youtube*. Uploaded by World Economic Forum. 17 July 2013, <https://www.youtube.com/watch?v=kNvmaq3e3Hk>. CC by License.

"Regional Structure of the Global Economy." *Youtube*. Uploaded by Salvatore Babones. 19 August 2016, <https://www.youtube.com/watch?v=aqWMQ0a5bEc>. CC by License.

PEC0202CDISSUES IN THE GLOBAL ECONOMY	
CLASS	II PG– SEMESTER III
Cognitive Level	K-2 Understand
	K-3 Apply
	K-3 Apply
	K-4 Analyze
	K-4 Analyze

**PEC0203CD POLITICAL ECONOMY OF INDIA
(THEORY)**

COURSE OUTCOMES:

On successful completion of the course, the student will be able to

CO1: recall the key concepts of political economy

CO2: compare the significant developments in the different political ideologies

CO3: identify the electoral system in India

CO4: categorise the salient features of the constitution of India

CO5: evaluate the political economy of India's international relations

COURSE CONTENT:**UNIT I: INTRODUCTION**

Political economy – definition – nature and scope – Key concepts in political economy: state, sovereignty, power, citizenship, nation, imperialism, global order – Government – origin and evolution – role of government – parliamentary – democracy – dictatorship

UNIT II: POLITICAL IDEOLOGIES

Nature of ideology: Neo-Liberalism, Marxism, Socialism, Gandhism – aims and objectives – features

UNIT III: POLITICAL DYNAMICS IN INDIA

Political parties – meaning and types – elections – electoral system – electoral reforms – pressure groups – meaning and techniques

UNIT IV: INDIAN CONSTITUTION

Salient features of Indian constitution –preamble – ingredients – fundamental rights and duties – features – directive principles of state policy – socialistic principles and Gandhian principles –list and features – constitutional amendments in India

UNIT V: POLITICAL ECONOMY OF INDIAN INTERNATIONAL RELATIONS

Political map of India and the world – globalization – international institutions – World Bank, IMF, WTO – India's foreign policy – determinants – principles and objectives – characteristics – India's relations with neighbouring countries (Pakistan, Sri Lanka, China, Bangladesh, Nepal) – Indo-US relations – ASEAN, European Union, Indian Ocean

TEXT BOOK(S):

Nagaraj, R.and Motiram S. *Political Economy of Contemporary India*. United Kingdom: Cambridge University Press, 2016.

REFERENCE BOOK(S):

Chopra J.K. *Unique Quintessence of Political Science for UPSC/State Civil Services*. New Delhi: Unique Publishers, 2009.

Daugherty, M.R. and Daugherty, C.R. *Principles of Political Economy*. Vol. I. U.S.A: The Riverside Press, 1950.

DeSouza, Peter Ronald. *India's Political Parties*. Vol. VI. New Delhi: Sage India publications, 2006.

Laxmikanth, M. *Indian Polity for Civil Services Examination*. New Delhi: Tata McGraw Hill education, 2009.

Pandey, Bidyut Chatrabarty and Rajendra Kumar. *Indian Government and Politics*. New Delhi: Sage India Publications, 2008.

Sharma, Sushil Kumar. *Popular Master Guide: UGC-NET Examination-Political Science*. New Delhi: Raj Publications, 2010.

OPEN EDUCATIONAL RESOURCE(S):

eBook:

"Principles of Political Economy: A Pluralistic Approach to Economic theory", 3e, published online on June 12, 2019 by Valparaiso University, Valparaiso, IN 46383 Accessed on 8 October, 2020, Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License

<https://principlesofpoliticaleconomy.pressbooks.com/>

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https://en.wikibooks.org/wiki/Constitution_of_India/Fundamental_rights

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https://en.wikibooks.org/wiki/Political_Economy/Modern_Political_Economy

VIDEO(S):

"Indian Electoral System 101", Uploaded by Tanya Bhandari, Apr 9, 2014 Creative Commons Attribution license (reuse allowed) <https://youtu.be/vrPbmqaWzfk>

“Indian Constitution”, *Youtube*. Uploaded by Lets Crack UPSC CSE, Jul 18, 2017, Creative Commons Attribution license (reuse allowed)

https://www.youtube.com/watch?v=vq2Q1_v6TNU&feature=youtu.be

“The Making of a Nation- Part IV: The Shaping of India’s Foreign Policy”, Uploaded by Indian Diplomacy, Mar 27, 2012, Creative Commons Attribution license (reuse allowed).

<https://www.youtube.com/watch?v=587ZhUk6l0s&feature=youtu.be>

AUDIO:

“List of political ideologies”, Wikipedia audio article, *Youtube*. Uploaded by Wikipedia on Dec 15, 2018, <https://www.youtube.com/watch?v=TzLPAJ-RJMq&feature=youtu.be>, Creative Commons Attribution license (reuse allowed)

PEC0203CDPOLITICAL ECONOMY OF INDIA	
CLASS	II PG –SEMESTER III
Cognitive Level	K-1 Remember
	K-2 Understand
	K-3 Apply
	K-4 Analyze
	K-5 Evaluate