



MANIPAL UNIVERSITY  
JAIPUR

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**Course Structure & Syllabus**  
**2021-22**  
**B.A (Hons.) Economics**

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**(Hons) Economics Scheme 2019**

Year	FIRST SEMESTER						SECOND SEMESTER					
	Course Code	Course Name	L	T	P	C	Course Code	Course Name	L	T	P	C
I	EO1101	Micro Economic Theory I	3	1	0	4	EO1201	Micro Economic Theory II	3	1	0	4
	EO1102	Macro Economic Theory I	3	1	0	4	EO1202	Macro Economics Theory II	3	1	0	4
	EO1103	Basic Statistics	3	1	0	4	EO1203	Introductory Mathematical Economics	3	1	0	4
	EO1104	Data Analysis Using Excel and SPSS (SEC)	0	0	4	2	EO1204	History of Economic Thought	3	1	0	4
	** ****	Generic Elective 1	3	1	0	4	** ****	Generic Elective 2	3	1	0	4
	LN1106	Communicative English (AECC)	2	0	0	2	** ****	Generic Elective 3	3	1	0	4
	LN1130	Language Lab (AECC)	0	0	2	1	AT1271	Value Education (SEC)	2	0	0	2
	CY1003	Environmental Science (AECC)	3	0	0	3						
			17	4	6	24			20	6	0	26
	Total Contact Hours (L + T + P)		26			Total Contact Hours (L + T + P)		26				
II	THIRD SEMESTER						FOURTH SEMESTER					
	EO2101	Indian Economy I	3	1	0	4	EO2201	Indian Economy II	3	1	0	4
	EO2102	International Economics	3	1	0	4	EO2202	Infrastructure Economics	3	1	0	4
	EO2103	Economics of Growth and Development	3	1	0	4	EO2203	Welfare Economics	3	1	0	4
	EO2104	Public Economics	3	1	0	4	EO2204	Environmental Economics	3	1	0	4
	** ****	Generic Elective 4	3	1	0	4	EO2205	International Banking and Finance	3	1	0	4
	** ****	Generic Elective 5	3	1	0	4	** ****	Generic Elective 6	3	1	0	4
							** ****	Open Elective 1 (Mandatory Learning Course)	2	1	0	3
			18	6	0	24			20	7	0	27
	Total Contact Hours (L + T + P)		24			Total Contact Hours (L + T + P)		27				
III	FIFTH SEMESTER						SIXTH SEMESTER					
	EO3101	Basic Econometrics	3	1	0	4	EO3201	Financial Economics	3	1	0	4
	EO3102	Competition Policy and Law	3	1	0	4	EO3202	Economic Policy in India	3	1	0	4
	EO3103	Advanced data analytics in economics	3	1	0	4	** ****	Open Elective 2 (Mandatory Learning Course)	2	1	0	3
	** ****	Discipline Specific Elective 1	3	1	0	4	** ****	Discipline Specific Elective 4	3	1	0	4
	** ****	Discipline Specific	3	1	0	4	** ****	Discipline Specific	3	1	0	4

	Elective 2						Elective 5				
** ****	Discipline Specific Elective 3	3	1	0	4	** ****	Discipline Specific Elective 6	3	1	0	4
		18	6	0	24			17	6	0	23
	Total Contact Hours (L + T + P)	24					Total Contact Hours (L + T + P)	23			

**Generic Elective Courses:** A student has to opt one Generic Elective Discipline (Minor Elective) in the beginning of the first semester. The student has to study 6 courses from the given Minor Elective choices: English, Political Science, Psychology, Sociology, Philosophy, offered by other Departments under SHSS.

Any Three Discipline Specific Elective Courses to be opted from the list of given choices in V-Semester		L	T	P	C	Any Three Discipline Specific Elective from the list of given choices in VI-Semester		L	T	P	C
EO3140	Dissertation	-	4	-	4	EO3240	Rural Economics	3	1	0	4
EO3141	Energy Economics	3	1	0	4	EO3241	Monetary Economics	3	1	0	4
EO3142	Health Economics	3	1	0	4	EO3242	Regional Economics	3	1	0	4
EO3143	Urban Economics and Planning	0	4	0	4	EO3243	Entrepreneurship and Innovation	3	1	0	4
EO3144	Research Methodology	3	1	0	4	EO3244	Labour Economics	3	1	0	4
EO3145	Advanced Mathematical Economics	3	1	0	4	EO3245	Advanced Econometrics	3	1	0	4

Total Credits: 142+6=148

## List of Generic Electives (Minor Elective) under SHSS for BATCH 2019-22 onwards

### 1. ENGLISH

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	LN1104	Literary Forms and Movements	3 1 0 4
2	II	LN1205	History of British Literature	3 1 0 4
3	II	LN1206	British Literature	3 1 0 4
4	III	LN2105	American Literature	3 1 0 4
5	III	LN2106	Indian English Literature	3 1 0 4
6	IV	LN2206	Gender Studies	3 1 0 4

### 2. PHILOSOPHY

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	AT1141	Introduction to Philosophy	3 1 0 4
2	II	AT1242	Introduction to Logic	3 1 0 4
3	II	AT1243	Ethics	3 1 0 4
4	III	AT2144	Modern Indian Thought	3 1 0 4
5	III	AT2145	Contemporary Western Philosophy	3 1 0 4
6	IV	AT2246	Intercultural Philosophy	3 1 0 4

### 3. POLITICAL SCIENCE

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	AT1151	Elements of Political Science	3 1 0 4
2	II	AT1252	Indian Political Systems	3 1 0 4
3	II	AT1253	Political Theory	3 1 0 4
4	III	AT2154	Western Political Thought	3 1 0 4
5	III	AT2155	International Affairs	3 1 0 4
6	IV	AT2256	Public Administration in India with Special Reference to Local Self Government	3 1 0 4

### 4. SOCIOLOGY

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	AT1161	Introduction to Sociology	3 1 0 4
2	II	AT1262	Sociological Thinkers	3 1 0 4
3	II	AT1263	Society and Polity	3 1 0 4
4	III	AT2164	Introduction to Indian Society and Culture	3 1 0 4
5	III	AT2165	Understanding Rural Society: Continuity and Changes	3 1 0 4
6	IV	AT2266	Sociology of Social Stratification in India	3 1 0 4

### 5. PSYCHOLOGY

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	PS1140	Basics Psychological Processes-I	3 1 0 4
2	II	PS1240	Basics Psychological Processes-II	3 1 0 4
3	II	PS1241	Abnormal Psychology	3 1 0 4
4	III	PS2140	Fundamentals of Social Psychology	3 1 0 4
5	III	PS2142	Developmental Psychology	3 1 0 4
6	IV	PS2240	Organizational Psychology	3 1 0 4

## 6. STATISTICS

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	MA1140	Descriptive Statistics	3 1 0 4
2	I	MA1240	Probability and Random Variables	2 1 0 3
3	II	MA1241	Applied Statistics	2 1 0 3
4	III	MA2140	Distribution Theory	2 1 0 3
5	III	MA2141	Sampling Theory	2 1 0 3
6	VI	MA3240	Design of Experiment	2 1 0 3



**EO1101: MICRO ECONOMIC THEORY-I [3 1 0 4]**

**Introduction to Economics:** Basic economics problems, basic elements of micro economics; **Analysis of Consumer Behaviour:** Cardinal Utility Approach, meaning and forms of utility, concept of Total and Marginal utility, Marshallian Utility Approach, law of diminishing marginal utility, Law of Equi-marginal utility, Deficiencies of Marshallian Utility Approach, Ordinal Utility Approach; **Indifference Curve Analysis:** Concepts and properties, Indifference map, marginal rate of substitution, budget line and consumer equilibrium, price, income and substitution effect; **Consumer Surplus, Demand and Supply Analysis:** Demand analysis- Introduction and meaning, Law of Demand, determinants of demand, Individual demand and supply schedules and derivation of market demand and supply; shifts in demand and supply curves; **Elasticity of Demand:** Meaning, types and factors determining elasticity of demand, its measurement and uses; **Supply Analysis:** Introduction and meaning, Law of supply, determinants, elasticity of supply; Applications of demand and supply; **Production:** production functions, law of variable proportions, returns to scale; Cobb Douglas Production function, isoquant and iso-cost lines, expansion path, marginal rate of technical substitution, cost minimizing equilibrium condition. **Cost Analysis:** Cost concepts, short run and long run costs, cost and output decisions, relationship between various cost concepts, numerical problems and cases. Learning curve; **Revenue:** meaning and types, break even analysis, Market Structure, **Perfect Competition:** Meaning, characteristics, Price –output determination in short run and long run; **Monopoly:** Meaning, characteristics, Price –output determination under monopoly, price discrimination.

**References:**

1. Ahuja H.L (2016). *Modern Economics: An Analytical Study*, S. Chand & Company Ltd. New Delhi, 20<sup>th</sup> Edition.
2. P. Samuelson and Nordhaus. (2009). *Economics*, 10<sup>th</sup> Edition, Tata McGraw-Hill Publishing Company Limited. New Delhi.
3. C. E. Case and C. Ray. (2007). *Principles of Economics*. Pearson Education. Inc., 8<sup>th</sup> edition.
4. J. E. Stiglitz and C. E. Walsh. (2007). *Economics*, W.W. Norton & Company Inc., New York. International Student Edition. 4<sup>th</sup> edition.
5. N, Gregory Mankiw. (2014). *Economics: Principles and Applications*. Indian edition. Cengage Learning. 7<sup>th</sup> Edition.
6. Salvatore Dominick. (2012). *Micro Economics*, Oxford.
7. Dhingra I.C, Garg V.K. (2012), *Principles of Micro Economics*, Sultan Chand and Sons.
8. Lipsey & Chrystal. (2011). *Economics*, Oxford University Press.
9. Anna Koutsoyiannis. (2008). *Modern Microeconomics*, Macmillan.

**EO1102 MACRO ECONOMIC THEORY I [3104]**

**Introduction:** Nature and Scope of Macroeconomics ; Circular Flow of Income and National Income Accounting ; The Classical Full-Employment Model ; Keynes's Theory of Employment: An Outline ; **Determination of National Income:** Keynes's Simple Two-Sector Model ; **Determination of National Income with Government:** Three-Sector Models ; Concepts of Inflationary and Deflationary Gaps Consumption: Keynesian consumption function; lifecycle and permanent income hypotheses; rational expectations and random walk of consumption expenditure Investment Demand: determinants of business fixed investment; residential investment and inventory investment Theory of Multiplier Aggregate Demand - Aggregate Supply Model (With Price Flexibility) ; Unemployment, Full Employment and Wage-Price Flexibility

**References:**

1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 2010.
2. Macro Economic Analysis, K.C. Rana & K.N. Verma, Eleventh edition, Vishal Publishing Co.2014
3. H L Ahuja, Macro Economics, S Chand, 2010
4. Stiglitz and Walsh, Economics, Fourth Edition, W. W. Norton, 2005.
5. N. Gregory Mankiw. Macroeconomics, Worth Publishers, 2010.
6. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 2009.
7. Lipsey & Chrystal, Economics, Oxford University Press, 2011.
8. Richard T. Froyen, Macroeconomics, Pearson Education Asia, 2005.

**EO1103: BASIC STATISTICS [3 1 0 4]**

**Definition and Introduction of Statistics:** Nature and Importance, Planning and Organization of statistical Survey, Classification and Tabulation of Data, Diagrammatic and Graphical representation of Data; **Measures of Central Tendency:** Arithmetic Mean, Median, Mode, Geometric Mean, Harmonic Mean and their characteristics, Positional Averages, quartiles, percentile; **Measures of Dispersion:** Range, Quartile Deviation, Mean Deviation, Standard Deviation and its characteristics, Coefficient of Variation, Coefficient of Variance, Measures of Skewness: Karl Pearson and Bowley, Lorenz Curve; **Correlation:** Definition and Classification, Scatter Diagram, Karl Pearson's Coefficient of Correlation, Spearman Rank Correlation, Concurrent deviation method, probable Error, Coefficient of determination; **Regression:** Definition and Classification, Regression lines, Regression

Coefficients, Regression Equations, Relationship between Regression and Correlation coefficient; **Index Numbers:** Definition and Characteristics, Use of Index Number, Methods of Constructing of Index Number, Problem in Construction of Index Numbers, Weighted and unweight Index Number, Tests of Adequacy, Chain Base Index Number, Shifting of Base, Cost of living Index Number, understanding BSE and NSE Indices; **Analysis of Time Series- Component of Time Series:** Measurement of trends, graphic method, Semi Average method, Moving average method and least square method, Exponential trends, Growth Curves; **Interpolation and Extrapolation:** Methods of Interpolation: Binomial Expansion, Newton's method, Extrapolation.

#### References:

1. S.P Gupta (2012) "Statistical Methods", Sultan Chand and Company, New Delhi , latest Edition
2. Richard I Levin and David S. Rubin (2013), "Statistics for Management" Pearson Education , New Delhi, latest Edition
3. Aczel Amir D. (2010), "Complete Business Statistics", Tata McGraw Hill Publishing Company Limited, New Delhi.
4. D.C Sancheti and V.K Kapoor (2010), "Statistics: Theory, Methods and Applications" Sultan Chand and Company, New Delhi latest edition.
5. Ken Black (2010), "Business Statistics for Contemporary Decision Making" Wiley Student latest Edition
6. Naval Bajpai (2013), "Business Statistics" Pearson Education, New Delhi latest Edition
7. Sincich Terry (2010), "Business Statistics by Example", Prentice Hall, New Jersey.

#### EO1104: DATA ANALYSIS USING SPSS AND MS EXCEL [0 0 4 2]

**Visualizing and Presenting Data:** Types of data, variable, tables, graphical representation; **Data Descriptors:** Mean, Mode, Median, Range, Standard Deviation, Mean Deviation, Co-efficient of variation; **Probability and Probability Distributions:** Additive rule, Multiplicative rule, Conditional probability, Bayes theorem, Binomial distribution, Poisson distribution, Normal Distribution; **Correlation and Regression:** Introduction, Karl Pearson's, Spearman's coefficient of correlation, Regression lines, Regression coefficients; **Testing of Hypothesis:** Large sample tests, student 't'-test, Analysis of Variance, Chi square test, Run test, Sign test, Median test; **Time Series Data and Analysis:** Trend extrapolation, Time series smoothing and forecasting with exponential smoothing.

#### References:

1. Gopal K. Kanji, *100 Statistical Tests*, SAGE Publication, 3<sup>rd</sup> edition, 2006.
2. Davis and Pecar, *Business Statistics using Excel*, Oxford University Press, 2015.
3. G.W. Snedecors and W.G. Cochran, *Statistical Methods*, Iowa State University Press, 1991.
4. A.M. Goon, M.K. Gupta and B. Dasgupta, *Fundamental of Statistics*, Vol. I, World Press, Calcutta, 2005.

#### LN1106: COMMUNICATIVE ENGLISH [2002]

Communication- Definition, Process, Types, Flow, Modes, Barriers; Types of Sentences; Modal Auxiliaries; Tenses and its Usage; Voice; Reported Speech; Articles; Subject-Verb Agreement; Spotting Errors; Synonyms and Antonyms; One Word Substitution; Reading Comprehension; Précis Writing; Essay Writing; Formal Letter Writing; Email Etiquettes; Résumé & Curriculum Vitae; Statement of Purpose; Presentations

#### References:

1. *Collins English Usage*. Harpers Collins, 2012.
2. Hobson, Archie Ed. *The Oxford Dictionary of Difficult Words*. Oxford, 2004.
3. Jones, Daniel. *English Pronouncing Dictionary*. ELBS, 2011.
4. Krishnaswamy, N. *Modern English: A Book of Grammar Usage and Composition*, Macmillan India, 2015.
5. *Longman Dictionary of Contemporary English*. Pearson, 2008.
6. McCarthy, M. *English Idioms in Use*. Cambridge UP, 2002.
7. Mishra, S. and C. Muralikrishna. *Communication Skills for Engineers*. Pearson, 2004.
8. *Oxford Dictionary of English*. Oxford UP, 2012.
9. Turton, N. D. and J.B. Heaton. *Longman Dictionary of Common Errors*. Pearson, 2004.

#### LN1130: LANGUAGE LAB [0021]

**Listening:** Listening Audio/Video Podcasts; Listening and typing –Listening and sequencing of sentences; Fill in the blanks – Listening and answering the questions; **Speaking:** Practice of IPA Sounds & Symbols; Practice of Consonants; Diphthongs and Monophthongs; Intonation – Ear Training; Learning Correct Pronunciation and sound recognition exercises; Common Errors in English; **Reading:** Fill in the blanks; Vocabulary building; reading and answering questions; **Conversations:** Face to Face Conversation; Telephonic conversation; Situational dialogues; Role play activities (Students take on roles and engage in conversation); Describing objects/Situations /People.

#### References:

1. Beatty, Ken. *LEAP Advanced Listening and Speaking*. Pearson, 2013.
2. *Collins English Usage*. Harpers Collins, 2012.
3. Craven, Miles, et al. *Cambridge English Skills: Real Listening and Speaking*. Cambridge UP, 2008.
4. Gude, Kathy. *Advanced Listening and Speaking: Advanced (CAE) Student's Book with Key*. Oxford, 2006.
5. Hobson, Archie Ed. *The Oxford Dictionary of Difficult Words*. Oxford, 2004.
6. Jones, Daniel. *English Pronouncing Dictionary*. ELBS, 2011.
7. Kumar, E. Suresh, and P. Sreehari. *A Handbook for English Language Laboratories*. Foundation Books.



8. Bauer, L. *An Introduction to International Varieties of English*. Edinburgh UP, 2002.
9. *Longman Dictionary of Contemporary English*. Pearson, 2008.
10. Mandal S. K. *Effective Communication & Public Speaking*. Jaico Publishing House.
11. Mohan, Krishna and N. P. Singh. *Speaking English Effectively*. Mac Millan Publishers.
12. Pushplata and Sanjay Kumar. *Communicate or Collapse: A Handbook of Effective Public Speaking, Group Discussions and Interviews*. Prentice-Hall of India.
13. Taylor, Grant. *English Conversation Practice*. Tata McGraw Hill.

### **CY1003: ENVIRONMENTAL SCIENCE [3 0 0 3]**

Introduction: Multidisciplinary nature, scope and importance, sustainability and sustainable development. Ecosystems: Concept, structure and function, energy flow, food chain, food webs and ecological succession, examples. Natural Resources (Renewable and Non-renewable Resources): Land resources and land use change, Land degradation, soil erosion and desertification, deforestation. Water: Use and over-exploitation, floods, droughts, conflicts. Energy resources: Renewable and non-renewable energy sources, alternate energy sources, growing energy needs, case studies. Biodiversity and Conservation: Levels, biogeographic zones, biodiversity patterns and hot spots, India as a mega-biodiversity nation; Endangered and endemic species, threats, conservation, biodiversity services. Environmental Pollution: Type, causes, effects, and controls of Air, Water, Soil and Noise pollution, nuclear hazards and human health risks, fireworks, solid waste management, case studies. Environmental Policies and Practices: Climate change, global warming, ozone layer depletion, acid rain, environment laws, environmental protection acts, international agreements, nature reserves, tribal populations and rights, human wildlife conflicts in Indian context. Human Communities and the Environment: Human population growth, human health and welfare, resettlement and rehabilitation, case studies, disaster management, environmental ethics, environmental communication and public awareness, case studies. Field Work and visit.

#### **References:**

1. R. Rajagopalan, *Environmental Studies: From Crisis to Cure*, Oxford University Press, 2016.
2. A. K. De, *Environmental Studies*, New Age International Publishers, New Delhi, 2007.
3. E. Bharucha, *Text book of Environmental Studies for undergraduate courses*, Universities Press, Hyderabad, 2013.
4. R. Carson, *Silent Spring*, Houghton Mifflin Harcourt, 2002.
5. M. Gadgil & R. Guha, *This Fissured Land: An Ecological History of India*, University of California Press, 1993.
6. M. J. Groom, K. Meffe Gary and C. R. Carroll, *Principles of Conservation Biology*, OUP, USA, 2005.

## **SECOND SEMESTER**

### **EO1201: MICRO ECONOMIC THEORY II [3 1 0 4]**

**Market structures:** Price and output determination of a firm in short run and long run, Perfect competition & Monopoly, Relevance of perfect competition, allocative and technical inefficiencies of Monopoly, price discrimination under Monopoly: Conditions, case studies; **Monopolistic Competition:** Characteristics of monopolistic competition, Group equilibrium, excess capacity; **Characteristics of Oligopoly market:** Sweezy's Kinked demand model & price rigidity, cartel & collusion, Leadership, Cournot's model, Concept of monopsony and bilateral Monopoly; **Factor Pricing:** The demand and supply for inputs, wages, rent, profits, interests; **Welfare Economics:** Meaning and concept of welfare economics, Pareto Optimality, Theory of Second best, Introduction to New welfare economics; **Capital Budgeting:** NPV, Pay Back Period, ARR and ROI; IRR.

#### **References:**

1. Walter Nicholson, Christopher M. Snyder, *Intermediate Microeconomics and Its Application*, 2009.
2. Theodore C. Bergstrom, Hal R. Varian, *Intermediate Microeconomics: A Modern Approach*, W.W. Norton, 2010.
3. H.L. Ahuja, *Advanced Economic Theory*, S. Chand and Co., 2007.
4. Damodaran, Suma, *Managerial economics*, Oxford, 2012.
5. Dwivedi, D.N., *Managerial economics*, Pearson, 2012.
6. Mehta, P.L., *Managerial Economics*, S. Chand, 2013.
7. W. Cris Lewis, Sudhir K. Jain, H. Craig Petersen, *Managerial Economics*, Pearson, 2005.

### **EO1202: MACRO ECONOMIC THEORY II [3104]**

IS-LM Curves Model; Inflation-Unemployment Trade-off: Phillips Curve and Rational Expectations Theory ; Stagflation and Supply-Side Economics; Inflation and Hyper-Inflation: Nature, Causes, Social Costs and Effects. Supply of Money and Its Determinants ; Demand for Money and Keynes's Liquidity Preference Theory of Interest ; Post-Keynesian Theories of Demand for Money Money and Prices: Quantity Theory of Money ; Keynes's Monetary Theory: Money, Income and Prices ; Monetarism: Friedman's Modern Quantity Theory of Money ; Monetarism and Keynesianism Compared Balance of Payments ; The Monetary Approach to the Balance of Payments; Foreign Exchange Rate ; Determination of National Income in an Open Economy and Foreign Trade Multiplier ; International Linkages and Mundell-Fleming Model

#### **References:**

1. Andrew B. Abel and Ben S. Bernanke, *Macroeconomics*, Pearson Education, Inc., 7th edition, 2011.

2. Macro Economic Analysis, K.C. Rana & K.N. Verma, Eleventh edition, Vishal Publishing Co.2014
3. Errol D'Souza, Macroeconomics, Pearson Education, 2009.
4. Paul R. Krugman, Maurice Obstfeld and Marc Melitz, International Economics, Pearson Education Asia, 9th edition, 2012.
5. I M Pandey, Financial Management, Vikas Publishing, Delhi, 2002.
6. Nanadan Nilekani, Imagining India, Penguin Press, 2009.
7. Thomas L. Friedman, The World is Flat, D&M Publishers, 2007.
8. Nirmalya Kumar, Phanish Puranam, India Inside: The Emerging Innovation Challenge to the West, Harvard Business Review Press, 2012.

#### EO1203: INTRODUCTORY MATHEMATICAL ECONOMICS [3 1 0 4]

**Basic Algebra:** Function and slopes, differentiation, Rules of differentiation, higher order differentiation and maxima and minima, nature of curve, Partial and total differentiation, its use in economics, integration-simple and definite; **Application of differential calculus:** Theory of consumers behavior, utility maximization, Demand Function and elasticity of demand nature of goods and partial elasticity; **Theory of production:** Cobb-Douglas production function, Euler's Theorem, Consumer's and producer's surplus, Elasticity of substitution, Optimizing behavior of a firm under Perfect Competition; **Matrix and input-output analysis:** Matrix and determinants-use in economics, Static and dynamic Models, Hawkins-Simon conditions for viability, computation of Gross output; **Linear programming and Game theory:** Formulation of a problem, graphical solution only; **Game Theory:** Two person-Zero Sum Game, saddle point solution only.

##### References:

1. Alpha C Chiang and Kevin Wainwright (2005), Fundamental Methods of Mathematical Economics, McGraw-Hill, 4th Edition.
2. B.C. Mehta and G.M.K. Madnani (2008) Mathematics for Economists, S Chand and Sons.
3. J.M. Henderson and R.E. Quandt (2000), Microeconomic Theory: A Mathematical Approach (Economic Handbook Series), McGraw-Hill College, 3rd Edition.
4. Peter J Hammond (2002), Mathematics for Economic Analysis, Pearson Educational Asia.
5. Srinath Barauh (2012), Basic Mathematics and its Application in Economics, Trinity Press Pvt Ltd.

#### EO1204: HISTORY OF ECONOMIC THOUGHT [3 1 0 4]

**The Ancient World:** Chankya's Arthshastra, Plato's ideal State, Aristotle on Justice and Exchange, Aristotle and the acquisition of wealth; **The Middle Ages:** The twelfth-century renaissance and Economics in the Universities; **Trade in the Seventeenth Century England:** The Balance-of-Trade Doctrine, The rate of interest and the case for free trade; **The Eighteenth Century:** Sir James Stuart, Adam Smith, Division of Labour and the Market, Capital accumulation, Smith and Laissez-Faire; **Classical Political Economy:** Ricardian Economics, Government Policy and the Role of the State, Money, John Stuart Mill, Karl Marx; **The Professionalization of Economics:** Jevons, Walrus and Mathematical Economics; Economics in Germany and Austria; **Money and the Business Cycle:** Austrian and Swedish theories of the Business Cycle, Britain: From Marshall to Keynes, Keynes's General Theory; **Econometrics and Mathematical Economics:** The revolution in National Income Accounting, The Econometric Society and the origins of modern Econometrics, General equilibrium Theory, Game Theory; **Welfare Economics and Socialism:** The State and Social Welfare, Welfare Economics, Market failure and government failure; **Economists and Policy:** Keynesian Economics and Macroeconomic Planning, Inflation and Monetarism, the New Classical Macroeconomics, Development Economics, Behavioral Economics, Applied Economics.

##### References:

1. Roger E. Backhouse The Penguin History of Economics Penguin
2. Ha-Joon Chang Economics: The User's Guide Penguin
3. Partha Dasgupta Economics: A Very Short Introduction Oxford

#### AT1271: VALUE EDUCATION [2 0 0 2]

Meaning of Value, Meaning of Education, Meaning of Value Education, Classification of Values, The Need and Role of Professional Ethics, Understanding Value Education, Self-Exploration as the Process for Value Education, The Basic Human Aspirations - Continuous Happiness and Prosperity, The Program to Fulfill Basic Human Aspirations, Understanding the Harmony at Various Levels: Understanding the Human Being as Co-existence of Self ('I') and Body, Harmony in the Self ('I'), Understanding oneself, Harmony with the Body, Harmony with the Family, Harmony in the Society, Harmony in Nature, Harmony in Existence.

##### References:

1. Gaur, R. R. (2010). *A Foundation Course in Human Values and Professional Ethics: Presenting a Universal Approach to Value Education through Self-exploration*. New Delhi: Excel Books.
2. Naagarazan, Dr. R S. (2016). *A Textbook on Professional Ethics and Human Values*: New Delhi: New Age International Pvt Ltd.

### THIRD SEMESTER

#### EO2101: INDIAN ECONOMY I [3 1 0 4]

**Economic Development since Independence:** Major features of the economy; growth and development under different policy Regimes, constraints, institutions and policy framework-evaluation, transformation of Indian Economy; **Population and Human Development:** Theory of demographic transition with reference to India, Demographic Trends, Recent Population policy; **Indian Economy and issues relating to planning:** Indian Economy in Pre-independence and Post-Independence -Challenges, Features, Issues; **Role, Policies and Productivity of Agriculture Sector:** Role, Nature, Issues and policies for Indian Agricultural Policy, Agriculture Growth, Agricultural Production and Productivity Trends- Low Levels of Productivity, Causes, Measures to increase production; Green Revolution, Impact of Green Revolution;

**Role, Policies for Industrial Sector:** Evolution of India's industrial policy, Mahalanobis strategy and India's industrial policy, New Economic Policy and Industrial policy under the policy of liberalization, privatization and globalization, Phases of Industrial development, Role of Small, Medium and Micro enterprises, SEZs- its Main issues, Industrial sickness; **Infrastructure:** Hard and Soft Infrastructure, types of Infrastructure-Economic, Social, Critical, Urban, Green. Importance of Infrastructure, Economic growth and development, Present State of Infrastructure in India.

#### References:

1. S. K. Mishra and V. K. Puri. 2016 "*Indian Economy*". 34<sup>th</sup> Edition. Himalaya Publishing House. New Delhi.
2. R Dutt and KPM Sundaram. 2013 "*Indian Economy*". 70<sup>th</sup> Edition, S. Chand and Co. Ltd. New Delhi.
3. Jean Dreze and Amartya Sen. 2013. "*An Uncertain Glory: India and its Contradictions*". Princeton University Press.
4. Rakesh Mohan. 2010. "*India's Financial Sector and Monetary Policy Reforms*". Oxford University Press.
5. Shankar Acharya and Rakesh Mohan. 2008. "*India's Economy: Performances and Challenges: Development and Participation*". Oxford University Press.

### EO2102: INTERNATIONAL ECONOMICS [3 1 0 4]

**Theory of International Trade:** Classical theory, comparative advantages, constant costs, complete specialization, neo- classical trade, Opportunity cost, incomplete specialization. general equilibrium in two-country, two goods open economy model, gains from trade; **The Standard theory of International Trade:** Heckscher Ohlin model, factor price equalization theorem, Stolper - Samuelson theorem, Leontief paradox, factor intensity reversals; **Terms of trade:** Growth and terms of trade effects, Rybczynski theorem, Immiserizing growth, growth and factor mobility - immigration and capital mobility; **Offer curves; International Trade policy:** trade policy and theory of trade interventions; **Trade Restrictions:** Tariff, general equilibrium effects of tariffs on welfare, offer curves and tariffs; **Non-tariff Trade Barriers:** Quotas, comparison of tariffs and quotas, export subsidies, effective rate of protection; **International Trade and Economic Integration:** Theory of customs union –trade creation and trade diversion, stages of integration, regional trade major group; **Foreign Exchange Market:** Determination of foreign exchange rate.

#### References:

1. Dominick Salvatore (2016), International Economics, John Wiley & Sons Inc, New Delhi, latest edition.
2. Pugel, T.A, (2010), International Economics, Tata McGraw Hill Publishing Co., New Delhi, 13th edition.
3. Mithani D.M, (2010), International Economics, Himalaya Publishing House, New Delhi, latest edition.
4. Krugman, P.A. and M Obstfeld, (2003) International Economics: Theory and Policy, Pearson publication, New Delhi, 14<sup>th</sup> Edition.
5. Dwivedi D.N, (2013), International Economics: Theory and Policy, Vikas Publishing, New Delhi, latest edition.

### EO2103: ECONOMICS OF GROWTH AND DEVELOPMENT [3 1 0 4]

**Introduction:** Concept of economic growth and development, difference between growth and development, factors affecting growth and development ; **Development and underdevelopment:** Perception of underdevelopment, Poverty- absolute and relative, measuring development and development gap- per capita income, inequality of income and wealth, purchasing power parity ; **Growth models :** Smith, Ricardo, Malthus, Schumpeter and capitalistic development, Harrod and Domar, Solow, critical minimum effort thesis, Nelson Low level equilibrium trap, Big Push theory of Rosenstein-Rodan, Kaldor's growth model; **Macro Economic Policy and Economic Development:** Role of monetary and fiscal policies in developing countries, External resources, FDI, MNC activity in developing countries, IMF and World Bank policies in developing countries; **Problems of labour surplus economy:** Lewis' model of economic development with unlimited supply of labour and its criticism; **International Aspect of Economic Development:** International trade as an engine of growth; gains from trade, Tariffs and effective protection; Post-GATT international economic order, WTO.

#### References:

1. Thirlwall A. P (1999), Growth and Development. Palgrave MacMillan. London, 8th edition or latest
2. Todaro M.P. and Smith S. C (2008), Economic Development, Pearson Education
3. Ray Debraj (2009), Development Economics, Oxford University Press
4. Sen Amartya (2000), Development as Freedom, Oxford University Press, New York
5. Meier G.M. and Rauch J.E. (1995) Leading Issues in Economic Development. Oxford University Press New York, 8th edition or latest
6. Salvatore, D and Dowling E. (2011) Development Economics, Schaum's Outline Series in Economics, McGraw-Hill, New York
7. Hayami, Y. (1997), Development Economics, Oxford University Press, New York
8. Kindleberger, C.P. (1977), Economic Development, McGraw Hill, New York, 3<sup>rd</sup> Edition
9. Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London

### EO2104: PUBLIC ECONOMICS [3 1 0 4]

**Introduction and allocation of resources:** Scope and Methods of Public Economics, public goods, pure and partial public goods, private goods and merit goods, Market failure- imperfections, externalities; **Fundamental principle of public economics:** Maximum Social Advantage, Theory of second best allocation of resources, Tiebout model, theory of club goods; **Public expenditure:** Wagner's law of increasing state activity, cannons, effects of public expenditure on production, distribution and economic activities; **Taxation:** Sources of public revenue, direct and indirect taxes, effects of tax on production, distribution and economic activities; **Principle of taxation:** Benefit theory, Ability to pay theory, Theory of optimal taxation, The Inverse Elasticity Rule, shifting and incidence of taxation, taxable capacity, features of Indian tax system, trends in tax revenue of the government, problem of double taxation. Tax evasion and the black economy, Tax reforms in India; **Public debt:** Sources, importance, effects of public debt, tax vs. debt, burden of public debt, Crowding Out of methods of debt redemption; **Budgetary policy:** Optimum Budget, Budgetary Policy: Balanced vs. unbalanced budget, budget as an instrument of economic policy, budgetary deficits and its implications, Zero based budgeting, salient features of the most recent union budget of India.

#### References:

1. R K Lekhi (2010), *Public Finance*, Kalyani Publishers, 19<sup>th</sup> edition
2. B P Tyagi and H P Singh (2008), *Public Finance*, J P and Co, Meerut, 23<sup>rd</sup> edition
3. Mishra and Puri (2014), *Indian Economy*, Himalaya Publication, 32<sup>nd</sup> edition, chapter 50-54
4. Joseph E. Stiglitz (2000), *Economics of the Public Sector*, W.W. Norton & Company, 3<sup>rd</sup> edition
5. R.A. Musgrave and P.B. Musgrave (1989), *Public Finance in Theory & Practice*, McGraw Hill Publications, 5<sup>th</sup> edition
6. John Cullis and Philip Jones (1998), *Public Finance and Public Choice*, Oxford University Press, 1<sup>st</sup> edition

## FOURTH SEMESTER

### EO2201: INDIAN ECONOMY-II [3 1 0 4]

**Policies for Agricultural Finance and Credit:** Agricultural finance and Marketing-Need, Sources, Credit, Government Measures to Improve the System of Agricultural Marketing, Role of Commercial and Regional Rural Banks, NABARD; **Policies and Performance in Industry Growth:** Productivity, diversification, competition policy, foreign investment, the de-industrialization debate, evolution of entrepreneurial and industrial structure, constraints to industrial breakthrough, labor relations; **Public and Private Sectors Industries:** Role, importance and share of public and private sectors in Indian economy, Public sector-objectives, performance and limitations; **Performance of Service Sector:** Role, trends and performance of service sector in Indian economy, Types of services; **Economy and State in the Imperial Context:** The imperial priorities of Indian economy, drain of wealth; international trade, capital flows and the colonial economy – changes and continuities, government and fiscal policy; **Macroeconomic Policies and Their Impact:** Fiscal Policy, trade and investment policy, financial and monetary policies, labor regulation; **The Changing Role of Finance:** The changing role of finance in capital accumulation and corporate structure, finance and globalization - financial liberalization and financial crisis;

#### References:

1. S. K. Mishra and V. K. Puri. "Indian Economy". Latest Edition. Himalaya Publishing House. New Delhi.
2. Ruddar Dutt and KPM Sundaram. "Indian Economy ". Latest Edition, S. Chand and Co. Ltd. New Delhi.
3. Jean Dreze and Amartya Sen. 2013. "An Uncertain Glory: India and its Contradictions". Princeton University Press.
4. Rakesh Mohan. 2010. "India's Financial Sector and Monetary Policy Reforms". Oxford University Press.
5. Shankar Acharya and Rakesh Mohan. 2008. "India's Economy: Performances and Challenges: Development and Participation". Oxford University Press.

### EO2202: INFRASTRUCTURE ECONOMICS [3 1 0 4]

**Introduction to Infrastructure and Infrastructure Economics:** Meaning and concept, need and importance, components of infrastructure - Social and physical infrastructure, Infrastructure as a public good and utilities, role of infrastructure in economic development, pricing of infrastructure; **Transport:** Meaning, components of a transport system - road, rail, air and water transport, Characteristics, advantages and disadvantages of each, Relationship between transport services and economic development, Role of public policy in transport- rationale of government intervention, Transport policy in India; **Communications:** Telephone utilities- Spread of telephone network and current problems in India, Measures to solve problems, Postal services- Characteristics of postal services, Growth and problems of postal services in India; **Energy:** Primacy of energy in economic development, Factors determining demand for energy, Energy conservation, Renewable and non-renewable sources of energy, Energy crisis in India - causes and effects, Energy sector in India- Electricity sector, Oil and natural gas sector, Non-conventional energy, etc.; **Education:** Role of education in economic development, Indian education system: Characteristics, problems and solutions, Allocation of resources to primary, secondary and higher education in India, Right to Education Act, Various schemes for promoting primary education; **Health:** Relationship between health and economic development, Determinants of health status of an economy, Demand and supply of health care in Indian context, India's Health Policy, health care and resource constraints, Inequalities in healthcare.



## References:

1. Crew, M A and P R Kleindorfer (1979): Public Utility Economics, Macmillan, London.
2. Indian Council of Social Science Research (ICSSR) (1976): Economics of
3. Infrastructure Vol. VI, New Delhi.
4. National Council of Applied Economic Research (NCAER) (1996): India Infrastructure
5. Report: Policy Implications for Growth and Welfare, NCAER, New Delhi.
6. Parikh KS (2010): India Development Report 2009, Oxford University Press, New
7. Delhi.
8. Parikh K S (2012): India Infrastructure Report 2012, Oxford University Press, New
9. Delhi.
10. Norton, H S (1971): Modern Transport Economics, CE Merrill, London.
11. Jha R, M N Murty and S Paul, (1990): On Fixing prices for Postal Services in India,
12. NIPFP, New Delhi.
13. Misra and Puri (2013): Indian Economy Himalaya Publishing Co., Mumbai.
14. Ahuja, H. L. (2011): Advance Economic Theory, S. Chand and Co., New Delhi.

## EO2203: WELFARE ECONOMICS [3 1 0 4]

**Introduction:** The allocation of resources, trade and transactions, income-utility function, income distribution; **Marshallian Welfare Economics:** Consumer's surplus; Measurement, difficulties, criticism, principles of compensating variation; surplus and Tax-Bounty Analysis; **Pareto optimality:** Optimum exchange conditions, production optimum, consumption optimum, concept of contract curve, optimum resource allocation, welfare maximization, concept of community indifference map, Samuelson's utility possibility curve, Arrow's possibility theorem; **Positive and negative external influences:** Market failures and the role of the government, the justification of the existence of the public sector, public goods, externalities; **Divergence between private and social costs:** Problems of non-market interdependence, externalities of production and consumption, external economies and diseconomies, problem of public goods, Pigovian welfare economics, Second best optima, Marginal cost pricing, Cost-benefit analysis.

## References:

1. Baumol, W. J. (Ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd. U.K.
2. Feldman, A. M. (1980), Welfare Economics and Social Choice theory Martinus Nijhoff, Boston.
3. Nicholas, B. (Ed.) (2001), Economic Theory and the Welfare state, Edward Elgar Publishing Ltd., U. K.
4. Arrow, K. J. (1951), Social choice and Individual Values, Yale University Press, New Haven.
5. Little, I. M. D. 9139), A Critique of Welfare Economics (2nd Edition), Oxford University press, Oxford.
6. Myint, H. (1948), Welfare Economics, Macmillan, London.
7. Pigou, A. C. (1962), The Economics of Welfare (4th Edition) Macmillan.
8. Mankiw, N. Gregory and Mark P. Taylor, Economics, 2011, Cengage Learning.

## EO2204: ENVIRONMENTAL ECONOMICS [3 1 0 4]

**Introduction:** Meaning, distinction between environmental economics and natural resource economics, neoclassical perspective, the 'optimal' Trade-off, issues of environmental economics; **Market Failure:** Environmental externalities; social choice of optimum pollution; **Economic theory of pollution control:** Abatement cost, pollution damage cost, the optimum level of pollution control ; **Theory of environment Regulation:** Price rationing, Pigovian taxes, subsidies, property rights, Coasian theorem, quantitative regulation-command and control, standard setting, tradable pollution permits, mixed permit- charge system, output tax; **Environmental Valuation:** Meaning, theory and measurement of economic valuation of environmental damage or benefits, economic theory and measurement of environmental benefits, revealed preference and stated preference method, hedonic pricing, household production function, travel cost method, defensive cost and contingent valuation method; **Biophysical limits to economic growth and sustainable development:** The Malthusian perspective, environmental Kuznets curve, Ehrlich-Commoner model; **Sustainable Macroeconomic Aspects of the Environment:** Meaning, concept, measuring sustainable development; **Sustainable Macroeconomic Accounting:** Sustainable national income, green GDP & accounting.

## References:

1. Ahmed Hussen (2008), Principles of Environmental Economics, Routledge Taylor & Francis group, New York
2. Johansson Per-Olov (2010), The Economic Theory and Measurement of Environmental Benefits, Cambridge University Press, Cambridge.
3. Kolstad C.D (2000), Environmental Economics, Oxford University Press.
4. Bhattacharya R.N. (2001ed.), Environmental Economics: An Indian Perspective, Oxford University Press.
5. M.N. Murthy (2009), Environment, Sustainable Development, and Well-being Valuation, Taxes, and Incentives, OUP.
6. Kadekodi, Gopal K. (2004), Environmental Economics in Practice, Oxford University Press.
7. Dasgupta P. (2001), Human Well-being and the Natural Environment, Oxford University Press.
8. Kanchan Chopra and Vikram Dayal (2009), Hand book of Environmental Economics in India, Oxford University Press.

## EO2205: INTERNATIONAL BANKING AND FINANCE [3 1 0 4]

**Financial Institutions, Markets, Instruments and Financial Innovations:** Role of financial markets and institutions, Indian Financial Institutions, constitution of financial institutions (Organized and Unorganized); **Money and capital markets:** organization, structure and reforms in India; Monetary policy of India, instruments of monetary policy; **Interest Rates Determination:** Sources of interest rate differentials; theories of term structure of interest rates; interest rates in India; **Indian Banking and Financial System:** Indian banking system- Changing role and structure, banking sector reforms, Indian financial system- past and present, commercial banks v/s cooperative banks; **Foreign Exchange market:** Structure and Operations, management of foreign exchange exposure & Risk Management, International financial Organizations

**References:**

1. F. S. Mishkin and S. G. Eakins, Financial Markets and Institutions, Pearson Education, 6th edition, 2009.
2. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, Foundations of Financial Markets and Institutions, Pearson Education, 3rd edition, 2009.
3. L. M. Bhole and J. Mahukud, Financial Institutions and Markets, Tata McGraw Hill, 5th edition, 2011. 4. M. Y. Khan, Indian Financial System, Tata McGraw Hill, 7th edition, 2011.
4. Various latest issues of R.B.I. Bulletins, Annual Reports, Reports on Currency and Finance and Reports of the Working Group, IMF Staff Papers.
5. Rajiv Srivastava, International Finance.
6. Thummula Sridaiah, International Financial Management

## FIFTH SEMESTER

### EO3101: BASIC ECONOMETRICS [3 1 0 4]

Nature and Scope of Econometrics, Types and Methodology of Econometrics, Random Variables; **Simple Regression Model:** Regression Model (two variables); **CLRM:** Assumptions of Methods of Least Square, Estimation of regression parameters using Ordinary Least Square (OLS) Method, Properties of estimators, test of significance, Confidence of interval and analysis of Variance, Various functional forms of regression models; **General Linear Model:** GLM (n variables, Matrix Notation), Estimation of regression parameters by least square method, Properties of estimator, Test of significance; **Violation of Basic Assumptions:** Autocorrelation, Multicollinearity, Heteroscedasticity and Specification Error, Detection, Consequences and Remedial measures; **Dummy Variable:** Nature of Dummy Variable; Panel Data Regression Analysis; **Simultaneous Equation Model:** Structural form and Reduced Form; Identification Problem; Derivation of Order and Rank Conditions, Estimation of Simultaneous Equation Model- Ordinary Least Squares (OLS).

**References:**

1. D.N. Gujarati and Sangeetha (2012): *Basic Econometrics*, Tata McGraw-Hill Publishing Company limited, New Delhi.
2. A. Koutsoyiannis (2001): *Theory of Econometrics*, 2<sup>nd</sup> edition, Palgrave Macmillan.
3. Peter Kennedy (2004): *A Guide to Econometrics*, 5th Edition, Blackwell Publishers.
4. S.C. Gupta (2012): *Fundamental of Statistics*, 7th Revised Edition, Himalaya Publishing House, New Delhi.
5. Damodar Gujarati (2011): *Econometrics by Examples*, 2<sup>nd</sup> Edition, Palgrave Macmillan

### EO3102: COMPETITION LAW AND POLICY [3 1 0 4]

**Competition and Market Structure- Theory and Implication:** Competition – Definition, Nature, Rationale and Objective, Competition Law and Policy – A Comparison, Competition and Market Strategies – Theory of competition, Perfect Competition, Benefits of Perfect Competition, Allocative, Productive and Dynamic Efficiency, Monopoly and Dominance, Economies of Scale and Natural monopolies, Cartel damages, Harmful effects of monopoly. Oligopoly and Monopsony. Anti-competitive agreements – vertical and horizontal (cartel) Ethical issues and competition. Predatory pricing. Market power, market share and market concentration. Dominance in the market and abuse of dominant position; **Competition Law and Enforcement Mechanism – Fair Competition for Greater Good:** History and development of Competition Law, Sherman Antitrust Act 1890, Case of US, UK and EU, Competition Commission of India (CCI) and its powers, functions and jurisdiction, CCI and other regulatory bodies, National Competition Policy 2011 – premise, objectives, principles, strategy for implementation and review of policy, Consumer Protection Act versus Competition Act, Competition law and common man; **Competition Law and Policy – Market and Institutional Framework:** Economics of Innovation and Intellectual Property Regime, Geographical Indicator, Patent, Copyright, Trademark, Protecting personal data. Industry regulation, Merger – vertical, horizontal and conglomerate; acquisition, takeover and amalgamation. International Competition Law Framework – WTO, OECD, UNCTAD, Case studies and discussions.

**References:**

1. Adams & Brock, *Antitrust Economics on Trial*, Princeton (University Press: Princeton, 1991)
2. Motta, Massimo. *Competition Policy: Theory and Practice*. Cambridge University Press, 2004
3. Tirole, Jean. *The Theory of Industrial Organization*, MIT, 1988
4. Fudenberg, Drew and Jean Tirole. *Game Theory*, MIT, 1992
5. Kwoka, J. E; White, L.J. *The Antitrust Revolution*, Harper Collins College Publishers, 1994 (2nd edition), 1999 (3rd edition), 2004 (4th edition)
6. Annual Reports by Competition Commission of India, <http://www.cci.gov.in/>
7. Indian National Competition Act 2002 & National Competition Policy India 2011



8. Vahini, Versha, *Indian Competition Law* LexisNexis, 2016.

#### **EO 3103 Advanced Data Analytics in Economics [3104]**

**Probability Theory:** Elements of Probability Theory - Sample Space, Events, Addition Rule, The Multiplication Rule, Theorems of Total Probability, Conditional Probability. **Theoretical Distribution:** Binomial, Poisson, Normal. **Test of Hypothesis:** type one-type two error in testing of hypothesis, two tailed and one tailed test of hypothesis; standard error and sampling distribution; Test of significance: students' t- test, X<sup>2</sup> test, Goodness of fit. **Variance ratio test:** F test and Analysis of Variance ANOVA -one way. **Operation research-** Transportation and Assignment: Transportation Problems definition, Linear form, **Solution methods:** North west corner method, least cost method, Vogel's approximation method, Assignment Problems. **Decision Theory:** Decision tree. Project Decision- Introduction to PERT and CPM, critical Path calculation, Cost reduction by Crashing of activity.

References:

1. S.P Gupta (2014), Statistical Methods, Sultan Chand & Company, New Delhi
2. Levin, Stephan, Krehbiel, Berenson (2012), Statistics for Managers Using Microsoft Excel, PHI Learning, New Delhi
3. Aczel Amir D. (2010), Complete Business Statistics, Tata McGraw Hill Publishing Company Limited, New Delhi.
4. D.C Sancheti & V.K Kapoor (2010), Statistics: Theory, Methods and Applications, Sultan Chand & Company, New Delhi
5. Ken Black (2012), Business Statistics for Contemporary Decision Making, Wiley Publications, New Delhi.
6. Naval Bajpai (2013), Business Statistics, Pearson Education, New Delhi.
7. Richard I Levin and David S. Rubin (2013), Statistics for Management, Pearson Education, New Delhi.
8. Gupta P.K and Hira D.S (2019), Operation research, S Chand Publishing, New Delhi
9. Hira D.S (2019), Problems in Operation research, S Chand Publishing, New Delhi

### **DEPARTMENT SPECIFIC ELECTIVES**

#### **EO3140: DISSERTATION [0 4 0 4]**

#### **EO3141: ENERGY ECONOMICS [3 1 0 4]**

**Introduction to Energy Economics:** Application of general Economic theory; Empirical and advanced econometric methods, drivers of energy markets and their development; **Specific properties of energy markets:** the physical, technological, environmental, and geopolitical particularities of energy sources and products; **Types of energy markets:** liquid fuels, gaseous fuels, and solid fuels to electricity, Emission allowances, energy efficiency and nuclear risks, Engineering properties of energy technologies, renewables, the economics of natural resources and environmental protection, market liberalization, and energy trade. German energy transformation; **Energy markets and their development:** Energy Pricing, demand and Supply, Global Trend of Energy consumption and Production, Energy and Sustainable development.

References:

1. Zweifel Peter, Energy Economics -Springer-Verlag Berlin and Heidelberg GmbH & Co. KG
2. Roy. L Rersesian, Energy Economics-Markets, History and Policy, Routledge, Newyork (2016).
3. Ferdinand E Bank, Energy Economics: A Modern Introduction, Springer Science, Newyork.
4. Fred P Bosselman, Energy Economics and the Environmnet: Cases and Material, Foundation Pr (2000).

#### **EO3142: HEALTH ECONOMICS [3 1 0 4]**

**Introduction:** Key concepts of Health Economics, Positive versus normative Analysis, Why Good Health – Utility analysis, Determinants of health among children, elderly, non-elderly; **Demand for Health Capital:** Grossman model of demand for health, Cost and Evaluation Methods- Cost benefit analysis, discounting value of life, cost effectiveness analysis, Different types of Health Care System; **Demand for Medical Care:** Demand for medical care & law of demand, utility maximizing rule, other economic factors, relationship between medical care and demand for health insurance, the moral hazard, Lemon problem; **Medical care production and costs:** short run & long run production and costs of a representative medical firm, Integrated delivery systems, Non economic factors of medical care, Role of Government, Economic reasons for Govt. Interventions; **Performance and Market analysis in Health Care System:** Structure, Conduct, Health care Regulation.

References:

1. Gruber, J. (2012). *Health Care Reform: What It Is, Why It's Necessary, How It Works*. New York: Hill and Wang.
2. Jay Bhattacharya, T. H. (2014). *Health Economics*. London: Palgrave Macmillan.
3. Rexford E. Santerre, S. P. (2012). *Health Economics: Theory, Insights & INdustry Studies*. South Western, Cengage Learning.
4. Sherman Folland, A. C. (2013). *The Economics of Health and Health Care*. USA: Pearson Prentice Hall Press.
5. Wonderling, D. (2011). *Introduction to Health Economics*. UK: Open University Press, MC Graw Hill.

#### **EO3143: URBAN ECONOMICS AND PLANNING [3 1 0 4]**

**Urban Forms:** Historical evolution of urban forms, definition, rationale and modern related types (UA), Agglomeration – productivity increases, models of optimal city size and regional dispersal, City functions and size class; **Within the City:** Location of Economic Activities, Land use patterns –classical models and modern reality, regulation land ceiling and rent control, Labour Markets- nature, informalisation, Migration, Urban poverty, Environment; **Local Public Goods and Infrastructure:** Nature of Local Public Goods and Utility Pricing- water/sanitation, health and education, Power, Housing and Transportation infrastructure, Slums and rehabilitation, Urban infrastructure needs and finance; **Governance:** Municipal governments – sources of revenues (local taxes) and expenditure, Functions and budgets in a decentralized set up, Governance Issues capacity building and the role of civil society.

**References:**

1. O’Sullivan, A., Urban Economics, McGraw-Hill Irwin, 2002 (BASIC TEXT All Modules)
2. Shukla, V., Urbanization and Economic Growth, Himalaya Publishers Pvt. Ltd., Mumbai, 1996 (Modules 1, 2)
3. Bahl, R and J. Linn, Urban Public Finance in Developing Countries, OUP (WB), 1992 (Modules 3, 4)
4. Ramachandran, R., Urban Economics and Urban Systems in India, OUP, 1989 (Module 1)

**EO3144: RESEARCH METHODOLOGY [3 1 0 4]**

**Introduction:** Meaning, objectives, General Characteristics of Research, Criteria of Good Research, Types of Research; **Research Problem:** What is a Research Problem, Selecting the Problem, Sources of the Problem, Defining a Problem, Statement of a Problem, sources of identifying research problem(s), Criteria of good research problem; **Review of Literature:** Meaning of Review of Literature, Need of Review of Literature, Objectives and Sources of Literature, How to Conduct the Review of Literature, Reporting the Review of Literature; **Research Design:** Introduction, requirements of research design, types, factors affecting research design, Hypothesis Formulation and Testing of hypothesis, Case Studies; **Sampling Methods and Techniques:** Sample design, Probability and Non-Probability sampling; **Data Collection:** Basic characteristics of Data, types of data, methods of collecting data; **Analysis of Data:** Measures of Central Tendency, Dispersion, Asymmetry (Skewness and Kurtosis), Simple Correlation and Regression Analysis, Multiple Correlation and Regression, Partial Correlation; **Testing of Hypotheses:** z-test, t-test,  $\chi^2$  -test, and F-test, Analysis of Variance (ANOVA)- One Way and Two way ANOVA, Analysis of Co-variance (ANCOVA); **Interpretation and Report Writing:** Meaning of Interpretation, Technique and Precaution Purpose of report, Significance of Report writing, Different Steps in Writing Report, Essentials of good report, Format of report

**References:**

1. Kumar, R. (2011). *Research Methodology: a step-by-step guide for beginners* (3rd edition). London, UK: TJ International Ltd, Padstow, Cornwall.
2. Denscombes, M. (2010). *The Good Research Guide: For small-scale social research projects*. Maiden-Read: Open University Press.
3. Singh, Y. K. (2006). *Fundamental of Research Methodology and Statistics*. New Delhi. New International (P) Limited, Publishers.
4. Wallinman, N. (2006). *Your Research Project: A step-by-step guide for the first-time researcher*. London: Sage Publications.
5. Kothari, C. R. (2004). *Research Methodology: Research and techniques*, New Delhi: New Age International Publishers.

**EO3145: ADVANCED MATHEMATICAL ECONOMICS [3 1 0 4]**

**Introduction:** Theory of consumer behavior, Utility functions, axioms on preference relations, choice of optimal consumption bundle and its uniqueness, demand function (ordinary and compensated), elasticity relations in demand theory, homogeneous and homothetic utility function, Slutsky equation, Roy’s identity; **Theory of firm:** Well behaved production function, optimizing behavior of a firm, profit maximization, constrained cost minimization, constrained output maximization, input demand function, Cobb-Douglas and CES production function, Kuhn-Tucker condition; **Theory of market:** Perfect competition, monopoly, equilibrium, oligopoly with homogeneous products, Kinked demand curve, Cournot and Stackleberg model; **LPP:** Solution of LP problems, graphical and simplex methods; **Input – output model:** Static and dynamic model, Hawkins Simons conditions, Leontief model, Solow conditions; **Game theory:** Pure and mixed strategies, Saddle point, rule of dominance.

**References:**

1. J.M. Handerson, R.E. Quandt (2003), Microeconomic theory: A mathematical approach, McGraw Hill Education (I), Pvt. Ltd., 3<sup>rd</sup> Ed.
2. C. Chiang, K. Wainwright ( 2013), Fundamental methods of mathematical economics, McGraw Hill Education(I), Pvt. Ltd., 4<sup>th</sup> Ed.
3. B.C. Mehta (1987), Mathematical economics: Microeconomic models, S. Chand & sons, New Delhi, 1<sup>st</sup> Ed.
4. R G D Allen (2002), *Mathematical Analysis for Economists*, Palgrave, 1<sup>st</sup> Ed.

**SIXTH SEMESTER**

**EO3201: FINANCIAL ECONOMICS [3 1 0 4]**

**Investment Theory and Portfolio Analysis:** Deterministic cash-flow streams, Basic theory of interest; discounting and present value, internal rate of return, evaluation criteria, fixed-income securities, bond prices and yields, interest rate sensitivity and

duration, immunization, the term structure of interest rates, yield curves, spot rates and forward rates; **Single-period random cash flows:** Random asset returns, portfolios of assets, portfolio mean and variance, feasible combinations of mean and variance, mean-variance portfolio analysis- the Markowitz model and the two-fund theorem, risk-free assets and the one-fund theorem; **CAPM:** The capital market line, the capital asset pricing model, the beta of an asset and of a portfolio, security market line, use of the CAPM model in investment analysis and as a pricing formula; **Options and Derivatives:** Introduction to derivatives and options, forward and futures contracts, options, other derivatives, forward and future prices, stock index futures, interest rate futures, the use of futures for hedging, duration-based hedging strategies, option markets, call and put options, factors affecting option prices; put-call parity, option trading strategies- spreads, straddles, strips and straps, strangles, the principle of arbitrage, discrete processes and the binomial tree model, risk-neutral valuation; **Corporate Finance:** Patterns of corporate financing, common stock, debt, preferences, convertibles, Capital structure and the cost of capital, corporate debt and dividend policy.

#### References:

1. David G. Luenberger(1997), *Investment Science*, Oxford University Press, USA.
2. Hull, John C (2005)., *Options, Futures and Other Derivatives*, Pearson Education, 6<sup>th</sup> edition.
3. Thomas E. Copeland, J. (2003), Fred Weston and Kuldeep Shastri, *Financial Theory and Corporate Policy*, Prentice Hall, 4th edition.
4. Richard A. Brealey and Stewart C. Myers, (2002), *Principles of Corporate Finance*, McGraw-Hill, 7th edition.
5. Stephen A. Ross, Randolph W. Westerfield and Bradford D. Jordan,(2005),
6. *Fundamentals of Corporate Finance*. McGraw-Hill, 7th edition.
7. Burton G. Malkiel,(2003), *A Random Walk Down Wall Street*, W.W. Norton & Company.
8. William Sharpe, Gordon Alexander and Jeffery Bailey (2003), *Investments*, Prentice Hall of India, 6th edition.

#### EO3202: ECONOMIC POLICY OF INDIA [3 1 0 4]

**The Agricultural Sector:** Institutional Structure – land reforms in India, Technological change in agriculture, pricing of agricultural inputs and output, Agricultural finance policy, Agricultural marketing and Warehousing, Issues Terms of trade between agriculture and in food security policies for sustainable agriculture; **Industrial policy:** Public Sector enterprises and their performance, Problem of sick units in India, Growth and pattern of industrialization, Small-scale sector, Productivity in industrial sector; **Exit policy:** issues in labour market reforms, approaches for employment generation; **Public Finances:** Fiscal federalism – Centre-State financial relations, Finances of central government; **Finances of State Governments:** Parallel economy, Problems relating to fiscal policy, Fiscal sector reforms in India Money, Banking and Prices, Analysis of price behaviour in India, Financial sector reforms, Interest rate policy, Review of monetary policy of RBI, External Sector- Structure and direction of foreign trade, Balance of payments, Issues in export-import policy and FEMA; **Exchange Rate policy:** Foreign capital and MNCs in India, The progress of trade reforms in India, Trends and Performance in Services.

#### References:

1. Ahluwalia, I. J. and I. M. D Little (Eds.) (1999), *India's Economic Reforms and Development (Essays in honour of Manmohan Singh)*, Oxford University Press, New Delhi.
2. ardhan, P. K. (9th Edition) (1999), *The Political Economy of Development in India*, Oxford University Press, New Delhi.
3. Bawa, R. s. and P. S. Raikhy (Ed.) (1997), *Structural Changes in Indian Economy*, Guru Nanak Dev University Press, Amritsar.
4. Brahmananda, P. R. and V. R. Panchmukhi (Eds.) (2001), *Development Experience in the Indian Economy: Inter-State Perspectives*, Book well, Delhi.
5. Chakravarty, S. (1987), *Development Planning : The Indian Experience*, Oxford University Press, New Delhi.
6. Dantwala, M. L. (1996), *Dilemmas of Growth : The Indian Experience*, Sage Publications, New Delhi.
7. Datt, R. (Ed.) (2001), *Second Generation Economic Reforms in India*, Deep & Deep Publications, New Delhi.
8. Government of India, *Economic Survey (Annual)*, Ministry of Finance, New Delhi.

### DEPARTMENT SPECIFIC ELECTIVE (3 OUT OF 6)

#### EO3240: RURAL ECONOMICS [3 1 0 4]

**Introduction:** meaning and features of rural economy, rural vs urban economy, Rural Development in India pre-independence, Post-Independence, Changing Contribution of Rural Areas in Indian Economy; **Rural marketing:** Traditional marketing, regulated markets, co-operative marketing and contract farming, Agricultural prices: Price behaviour; cobweb cycle; public distribution system, terms of trade, agriculture price policy; **Demographic and Economic Trends in Rural Area:** Population Growth- Changes in rural population, Employment Growth: Structural and Sector-wise changes in Output and Employment in Rural India, Changes in Rural Employment; **Trends in different sectors:** Contribution of rural population in Primary, secondary and tertiary sector, Disparity in Worker Productivity in different sectors, trends, Measures and Strategies for Equitable Growth in Rural Areas; **Rural Industrialisation:** Concept and scope, Government policy, KVIC, Mini-industrial estates, Industrial cooperatives; **Rural poverty:** Poverty in Indian Scenario, Concept of poverty; Strategies of rural development in plans, Poverty alleviation programmes; **Rural economic Development:** opportunities and challenges, Public policy initiatives towards rural economy, Importance of Agriculture in Development.

#### References:

1. Carver, T. N. (2016). The Principles of Rural Economics. Palala Press USA, Hardcover Edition.
2. Narang Ashok. (2006). "Indian Rural Problems". Murari Lal and Sons Publications. New Delhi.
3. Desai, V. (2010). Rural Development in India. Himalaya Publishing House New Delhi, 2nd Edition
4. Meenu Agrawal. (2010). "Regional Rural Banks and Upliftment of Rural Society". Deep & Deep publications Pvt. Ltd.
5. Rangarajan, C, Seema and E M Vibeesh. (2013). "Developments in the Workforce between 2009-10 and 2011-12,". Economic & Political Weekly. Vol 49. No 23. pp 117-121.

#### EO3241: MONETARY ECONOMICS [3 1 0 4]

**Money in the Financial System:** Money and its functions, financial markets, financial instruments and money, Demand for money various approaches, Money and Capital market, Financial deepening; **Money Supply Analysis:** Theory of money supply, money multiplier analysis, monetary aggregates, monetary aggregates in India, financial innovations, central banks problems, High powered money; **Analysis of Interest Rates:** Interest rates in closed and open economies, Theories of term structure Financial Markets Banking system, bond market, foreign exchange market and equity market; **Monetary Policy:** Goals, targets, indicators and the transmission mechanism; instruments of monetary policy; **Monetary Management in An Open Economy:** International capital markets, portfolio diversification, the international monetary system, monetary policy in India's open economy, financial sector reforms in India.

##### References:

1. M.K. Lewis (2000), Monetary Economics, OUP
2. M.R. Baye, D.W. Jansen (1996), Money Banking and Financial Markets, AITBS, (Indian Edition)
3. Maurice Levi (1999), International Finance, Tata McGraw Hill
4. L.M. Bhole (1999), Financial Institutions and Markets, Tata Mc Graw Hill
5. R.B.I. Bulletin, Annual Report; Report on Currency and Finance
6. D. Mithani - Money Banking and International Trade
7. M.L.Seth - Money Banking and International Trade

#### EO3242: REGIONAL ECONOMICS [3 1 0 4]

**Regional Economics:** Scope and discipline, regions and their types, economic behavior related to space; **Economics of location:** Economic factor analysis of location, economics of agglomeration in space, Thunen's theory of location of agricultural activities, weber's theory of industrial location, Christaller's central place theory in a hierarchy of settlements, Losch on central place theory of Losch, Sargant Florence, Edgar Hoover, Polander, Greenhut, and Isard on industrial location Richardson on location constants locational preferences, General Equilibrium Theory of Industrial Location, Hotelling Principle, location quotient, mix and share analysis; **Regional Flows:** Markov's chain model, models of migration, Space & Price theories, perfect competition, space and price determination under monopoly and Imperfect competition, price discrimination, monopoly power; **Dynamic models of regional growth:** Formulating models, input-output analysis, regional multiplier, regional fluctuation/cycle, macro dynamic growth theories; **Special theories of regional growth:** Cumulative causation theory, stages theory of regions, divergence versus convergence and balanced vs. unbalanced growth; **Regional planning:** Regional planning and multi-level planning, applied economics of regional planning, specific analysis, economics of project planning.

##### References:

1. O.S Shrivastava, *Regional Economics and Regional Planning*, New Delhi, 2009
2. Robert J. Stimson, Roger R. Stough, Brian H. Roberts, *Regional Economic Development: Analysis and Planning Strategy*, Springer, New York, 2006
3. Peter Nijkamp, Edwin S. Mills, *Handbook of Regional and Urban Economics: Regional economics*, Oxford, UK, 2007
4. Peter Nijkamp, Edwin S. Mills, *Regional Integration, Economic Development and Global Governance*, EEP publication, UK, 2011
5. H. Craig Davis, *Regional Economic Impact Analysis and Project Evaluation*, UBC press, 2001

#### EO3243: ENTREPRENEURSHIP AND INNOVATION [3 1 0 4]

**Innovation:** Meaning and relevance of innovation, contribution of Schumpeter, human creativity and working through creative group, enhancing creativity in an organization; **Types of Innovation:** incremental, radical, process and service innovation, Technology S curve and its implications for managers and innovators, innovation and creative destruction; **Idea Generation:** new knowledge, building on existing ideas, recognizing opportunities, role of leaders in making difference through innovation and creativity; **Jugaad:** a breakthrough growth strategy, principles of jugaad innovation; **India's innovation challenge:** Overcoming institutional constraints; Outsourcing innovation: R & D Services on demand in India; **Entrepreneurship:** concept, function, need and types; noted entrepreneurs of India; emerging women entrepreneurship; social entrepreneurship and how they impact society; process of company formation; relevant legal aspects; **Developing entrepreneurial motivation and competency:** self-efficacy, creativity, risk-taking, communication and influencing ability, planning action; **Understanding market dynamics:** moving innovation to market, importance of market research for an entrepreneur, patents, trademarks, copyrights, opportunities of raising capital for start-ups.

##### References:

1. *Managing creativity and innovation*, HBR, 2003
2. Nirmalya Kumar & Phanish Puranam, *India inside: The Emerging Innovation Challenge to The West*, HBR Press, 2012
3. Jaideep Prbhu, & Simone Ahuja, *Jugaad innovation*, Random House India, 2012



4. Porus Munshi, *Making breakthrough innovations happen*, Harper Collins, 2013
5. *The innovators Toolkit*, HBR, 2009
6. Vijay Govindarajan, Chris Trimble, *Reverse Innovation: Create Far From Home, Win Everywhere*, HBR Press, 2012
7. Scott Anthony, *The Little Black Book of Innovation: How it Works, how to Do it*, Harvard Business Review Press, 2011

#### EO3244: LABOUR ECONOMICS [3 1 0 4]

**Introduction:** Meaning- Concept, Significance and Peculiarities of Labour; Nature, Scope and Importance of Labour Economics, Characteristics of Indian Labour Market; **Wage Determination:** Marginal Productivity Theory, Theory of Collective Bargaining, Modern Theory of Wages, Minimum Wage and Fair Wage, Wage Determination in-Organised- Unorganised Sector, Evolution and Features of Wage Policy in India; **Migration and Absenteeism:** Approaches to Labour Migration trends & effects of Migration, Absenteeism to Industrial Labour in India; causes, effects and remedies, Labour turnover- Trends in Labour Turnover in India; **Industrial Relations:** Labour Unions in India- Growth, Pattern, Structure and Achievements of Labour Union in India, Causes of Industrial Disputes and their settlement and preventive mechanism, Current trends in Collective Bargaining, Social Security Measures; **Labour Market reforms:** Exit Policy, Child Labour Policy in India, Problems and Policy of Female Workers in India, Labour Relations in India, Contract Labour.

#### References:

1. Datt, G (1996), *Bargaining Power, Wages and Employment: An Analysis of Agricultural, Labour : Markets in India* : Sage Publications, New Delhi
2. Hajela, P.D.(1998), *Labour Restructuring in India : A Critique of the New Economic Policies*, Commonwealth Publishers, New Delhi.
3. Jhabvala, R. and R.K. Subrahmanya (Eds) (2000), *The Unorganised Sector: Work Security and Social Protection*: Sage Publications, New Delhi.
4. Lester, R.A.(1964), *Economics of Labour* (2nd Edition), Macmillan, New York
5. Papola, T.S.P.P. Ghosh and A.N.Sharma (Eds)(1993). *Labour, Employment and Industrial Relations in India*, B.R.Publishing Corporation, New Delhi.
6. Rosenberg M.R. (1988), *Labour Markets in Low Income Countries* in Chenery
7. T.N.Srinivasan (Eds) *The Handbook of Development Economics* North Holland, New York.

#### EO3245: ADVANCED ECONOMETRICS [3 1 0 4]

**Introduction:** Nature and Scope of Econometrics, Types and Methodology of Econometrics, Population and sample regression function, Disturbance term; **Simple Regression Model:** Regression Model (two variables), CLRM- Assumptions of Methods of Least Square, Estimation of regression parameters using Ordinary Least Square (OLS) Method, Properties of estimators, The Gauss-Markov Theorem, Coefficient of Determination  $r^2$ ; **Hypothesis testing:** Confidence interval of regression parameters, test of significance, regression analysis and Analysis of Variance (ANOVA), Application of regression analysis; **Multiple Regression Model:** Regression model (three variables), Interpretation of multiple regression equation; **General Linear Model:** GLM (n variables, Matrix Notation), Estimation of regression parameters by least square method, Properties of estimator; **Dummy Variable:** Nature of Dummy Variable, uses and significance, dummy variable trap; **Violation of Basic Assumptions:** Autocorrelation, Multicollinearity, Heteroscedasticity and Specification Error, Detection, Consequences and Remedial measures; **Simultaneous Equation Model:** Structural form and Reduced Form, Identification Problem, Derivation of Order and Rank Conditions, Estimation of Simultaneous Equation Model- Ordinary Least Squares (OLS) and Indirect Least Squares (ILS).

#### References:

1. D.N. Gujarati and Sangeetha (2012): *Basic Econometrics*, Tata McGraw-Hill Publishing Company limited, New Delhi.
2. A. Koutsoyiannis (2001): *Theory of Econometrics*, 2<sup>nd</sup> edition, Palgrave Macmillan.
3. Peter Kennedy (2004): *A Guide to Econometrics*, 5th Edition, Blackwell Publishers.

#### LIST OF GENERIC ELECTIVES (MINOR ELECTIVE) offered in B.A (Hons.) English, Psychology & Liberal Arts

##### ECONOMICS

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	EO1105	Microeconomics	3 1 0 4
2	II	EO1205	Macroeconomics	3 1 0 4
3	II	EO1206	Growth and Development	3 1 0 4
4	III	EO2105	Development Issues in Indian Economy	3 1 0 4
5	III	EO2106	Money, Banking and Public Finance	3 1 0 4
6	IV	EO2206	International Economics	3 1 0 4

#### EO1105: MICROECONOMICS [3 1 0 4]

**Introduction to Economics:** Basic economics problems, basic elements of micro economics; **Analysis of Consumer Behaviour:** Cardinal Utility Approach, meaning and forms of utility, concept of Total and Marginal utility, Marshallian Utility Approach, law of diminishing marginal utility, Law of Equi-marginal utility, Deficiencies of Marshallian Utility Approach, Ordinal Utility Approach; **Indifference Curve Analysis:** Concepts and properties, Indifference map, marginal rate of substitution, budget line and consumer equilibrium, price, income and substitution effect; **Consumer Surplus, Demand and Supply Analysis:** Demand

analysis- Introduction and meaning, Law of Demand, determinants of demand, Individual demand and supply schedules and derivation of market demand and supply; shifts in demand and supply curves; **Elasticity of Demand:** Meaning, types and factors determining elasticity of demand, its measurement and uses; **Supply Analysis:** Introduction and meaning, Law of supply, determinants, elasticity of supply, Applications of demand and supply; **Production:** production functions, law of variable proportions, returns to scale; Cobb Douglas Production function, isoquant and iso-cost lines, expansion path, marginal rate of technical substitution, cost minimizing equilibrium condition; **Cost Analysis:** Cost concepts, short run and long run costs, cost and output decisions, relationship between various cost concepts, numerical problems and cases. Learning curve; **Revenue:** meaning and types, break even analysis, Market Structure; **Perfect Competition:** Meaning, characteristics, Price –output determination in short run and long run; **Monopoly:** Meaning, characteristics, Price –output determination under monopoly, price discrimination, Introduction to Monopolistic Competition and Oligopoly.

#### References:

1. Ahuja H.L (2016). *Modern Economics: An Analytical Study*, S. Chand & Company Ltd. New Delhi, 20<sup>th</sup> Edition.
2. P. Samuelson and Nordhaus. (2009). *Economics*, 10<sup>th</sup> Edition, Tata McGraw-Hill Publishing Company Limited. New Delhi.
3. C. E. Case and C. Ray. (2007). *Principles of Economics*. Pearson Education. Inc., 8<sup>th</sup> edition.
4. J. E. Stiglitz and C. E. Walsh. (2007). *Economics*, W.W. Norton & Company Inc., New York. International Student Edition. 4<sup>th</sup> edition.
5. N, Gregory Mankiw. (2014). *Economics: Principles and Applications*. Indian edition. Cengage Learning. 7<sup>th</sup> Edition.
6. Salvatore Dominick. (2012). *Micro Economics*, Oxford.
7. Dhingra I.C , Garg V.K. (2012), *Principles of Micro Economics*, Sultan Chand and Sons.
8. Lipsey & Chrystal. (2011). *Economics*, Oxford University Press.
9. Anna Koutsoyiannis. (2008). *Modern Microeconomics*, Macmillan.

#### EO1205: MACROECONOMICS [3 1 0 4]

**Introduction to Macroeconomics and National Income Accounting:** Basic issues studied in macroeconomics, measurement of gross domestic product, income, expenditure and the circular flow, real versus nominal GDP, price indices, national income accounting for an open economy, balance of payments- current and capital accounts; **Money:** Functions of money quantity theory of money determination of money supply and demand, credit creation- roles and objectives of central banks, qualities of effective central banks, tools of monetary policy; **Inflation:** Inflation, measurement of inflation, cost push & demand pull inflation, hyperinflation, disinflation, Phillips curve ; **The Closed Economy in the Short Run** Classical and Keynesian systems; simple Keynesian model of income determination, Fiscal and monetary multipliers; **Macro -economic policy objectives:** The centrality of growth, Difference between actual GDP and Potential GDP, Determinants of a country's growth- sources, measurement and sustainability of economic growth.

#### References:

1. Dornbusch, Fischer and Startz, *Macroeconomics*, McGraw Hill, 2010.
2. H L Ahuja, *Macro Economics*, S Chand, 2010
3. Stiglitz and Walsh, *Economics*, Fourth Edition, W. W. Norton, 2005.
4. N. Gregory Mankiw. *Macroeconomics*, Worth Publishers, 2010.
5. Olivier Blanchard, *Macroeconomics*, Pearson Education, Inc., 2009.
6. Lipsey & Chrystal, *Economics*, Oxford University Press, 2011.
7. Richard T. Froyen, *Macroeconomics*, Pearson Education Asia, 2005.

#### EO1206: GROWTH AND DEVELOPMENT [3 1 0 4]

**Introduction:** Concept of economic growth and development, difference between growth and development, factors affecting growth and development ; **Growth Models** : Harrod and Domar, Neo-classical growth models – Solow Model; **Theories of Economic Development:** Schumpeter and capitalistic development , vicious circle of poverty, critical minimum effort thesis, Nelson Low level equilibrium trap, Big Push theory of Rosenstein-Rodan; **Development and Underdevelopment:** Perception of underdevelopment, poverty- absolute and relative, measuring development and development gap— per capita income, inequality of income and wealth; **Macro Economic Policy and Economic Development:** Role of monetary and fiscal policies in developing countries, external resources, foreign direct investment, multi-national corporations activity in developing countries , International Monetary Fund (IMF) and World Bank policies in developing countries; **Problems of Labour Surplus Economy:** Lewis' model of economic development with unlimited supply of labour and its criticism , Choice of technique in a labour surplus economy; **International aspect of Economic Development** : International trade as an engine of growth, static and dynamic gains from trade, tariffs and effective protection.

#### References:

1. Meier G.M. and Rauch J.E. (1995) *Leading Issues in Economic Development*. Oxford University Press New York, 8<sup>th</sup> edition or latest
2. Ray Debraj (2009), *Development Economics*, Oxford University Press
3. Salvatore, D and Dowling E. (2011) *Development Economics*, Schaum's Outline Series in Economics, McGraw-Hill, New York
4. Thirlwall A. P (1999), *Growth and Development*. Palgrave Macmillan. London, 8<sup>th</sup> edition or latest
5. Todaro M.P. and Smith S. C (2008), *Economic Development*, Pearson Education

#### EO2105: DEVELOPMENT ISSUES IN INDIAN ECONOMY [3 1 0 4]



**Economic Growth and Development:** Meaning, Indicators and its significance; **Agriculture Sector:** agriculture policies and rural development, agricultural productivity, land reform measures, green revolution and its impact on Indian economy, Issues related to agricultural finance and agricultural marketing; **Industrial Sector:** Role and significance of industrial sector in Indian economy, industrial policies, issues related to MSME and large scale industries, industrial sickness, labor related issues, social security system and industrial unrest in the economy; Make in India initiative; **Infrastructure and Service Sector:** Role, significance and components, Micro-finance; **Economic Reforms:** Liberalization, Privatization, Globalization, Disinvestment; **Foreign Trade and Foreign Capital:** Significance of foreign trade and capital on growth of Indian economy, Issues related to volume, composition and direction of foreign trade of India, Development issues of Indian Economy related to Indian Balance of Payments, policies of foreign capital and aid, WTO and India.

#### References:

1. R. Dutt and K.P Sundaram, *Indian Economics*, S Chand & Co, New Delhi, 2011
2. S.K Mishra and V. K. Puri, *Indian Economics*, Himalaya Publishing House, Mumbai, 2012
3. D.M Mithani, *International Economics*, Himalaya Publishing House, New Delhi, 2010
4. Uma Kapila, *Indian Economy: Performance and Policies*, Academic Foundation, 16<sup>th</sup> Edition, 2015

#### EO2106: MONEY, BANKING AND PUBLIC FINANCE [3 1 0 4]

**Introduction- Money and Banking:** Money - meaning, functions and classification. Meaning and types, Functions of commercial banks, The process of credit creation- Purpose and limitations; **Central Bank:** Functions of a central bank, Quantitative and qualitative methods of credit control, bank rate policy, open market operations, variable reserve ratio and selective methods, Role and functions of the Reserve Bank of India, Objectives and limitations of monetary policy with special reference to India; **Public Finance:** Meaning and scope of public finance, Distinction between private and public finance, Public goods vs. private goods, The Principle of maximum social advantage, Market failure, Role of the government, Meaning, classification and principle of public expenditure, Canons and effects of public expenditure, Trends in public expenditure and causes of growth of public expenditure in India; **Taxation:** Sources of public revenue, Taxation- Meaning, canons and classification of taxes, Division of tax burden- The benefit and ability-to-pay approaches, Impact and incidence of taxes, Taxable capacity, Effects of taxation. characteristics of a good tax system, Major trends in tax revenue of the central and state governments in India.

#### References:

1. D.M. Mithani, *Modern Public Finance*, Himalaya Publishing House, Mumbai, 1998.
2. S.B. Gupta, *Monetary Economics*, S. Chand & Company, New Delhi, 1994
3. E.W. Houghton, (Ed.), *Public Finance*, Penguin, Baltimore, 1988.
4. E. Shapiro, *Macroeconomic Analysis*, Galgotia Publications, New Delhi, 1996.

#### EO2206: INTERNATIONAL ECONOMICS [3 1 0 4]

**Importance of Trade and Trade Theories:** Importance of the study of international economics; Inter-regional and international trade; Theories of absolute advantage, Comparative advantage and opportunity cost, Heckscher - Ohlin theory of trade - its main features, assumptions and limitations; **Gains from Trade:** Gains from trade - Their Measurement and Distribution: Trade as an engine of economic growth, concepts of terms of trade and their importance in the theory of trade; **Tariffs and Quotas:** Types of tariffs and quotas, Their impact in partial equilibrium analysis, Free trade and policy of tariffs in relation to economic growth with special reference to India; **Balance of Trade and Balance of Payments:** Concepts and components of balance of payments, Equilibrium and disequilibria in balance of payment, consequences of disequilibrium in balance of payments, Various Measures to correct deficit in the balance of payments, Measures of correcting BOP, functions of IMF, World Bank and GATT/ WTO, Reform of the International Monetary system and India, Regional Trade agreements - SAARC & ASEAN.

#### References:

1. D. M. Mithani, *International Economics*, Himalaya Publishing House, New Delhi, 2010.
2. M.L. Jhingan, *International Economics*, Vrinda Publications (P) Ltd., Delhi, 2008.
3. D. Salvatore *International Economics: (8th Ed.)*, Wiley India, 2005.
4. P.B. Kenan, *The International Economy*, Cambridge University Press, London, 1994.

### LIST OF GENERIC ELECTIVES (MINOR ELECTIVE) OFFERED WITH B.A ECONOMICS (HONS.)

#### 1. ENGLISH

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	LN1104	Literary Forms and Movements	3 1 0 4
2	II	LN1205	History of British Literature	3 1 0 4
3	II	LN1206	British Literature	3 1 0 4
4	III	LN2105	American Literature	3 1 0 4
5	III	LN2106	Indian English Literature	3 1 0 4
6	IV	LN2206	Gender Studies	3 1 0 4

#### LN1104: LITERARY FORMS AND MOVEMENTS [3 1 0 4]

**Poetry:** Forms of poetry: Sonnet; Elegy; Ode; Epic; Ballad; Lyric; Dramatic monologue; Allegory; **Stanza forms:** Chaucerian stanza; heroic couplet; Spenserian stanza; Shakespearean stanza; Blank verse; Free verse; Terza rima; Iambic Pentameter; **Prose and Fiction:** Elements of novel; Elements of short story; Picaresque novel; Historical novel; Psychological novel; Gothic novel; Epistolary novel; Regional novel; Stream of consciousness; Characterization, **Drama:** Comedy; Tragedy; Tragicomedy; Melodrama; Problem play.

**Movements:** Renaissance, Reformation Movement, Oxford Movement, Pre-Raphaelite Movement, Imagism; Magic Realism; Lost Generation; Bloomsbury Group; Angry Young Men; Theatre of Absurd.

##### References:

1. Abrams, M. H. *A Glossary of Literary Terms*, 11/E, Wadsworth Publication 2015.
2. Prasad, B. *A Background to the study of English Literature*, Revised Edition, Trinity, 2018.
3. Boulton, M. *The Anatomy of Drama*, Kalyani Publishers, 2010.
4. Boulton, M. *The Anatomy of Poetry*, Kalyani Publishers, 2010.
5. Boulton, M. *The Anatomy of the Novel*, Kalyani Publishers, 2010.
6. Chandra, N D R and A Sebastian. *Literary Terms in Drama, Theatre and Cinema*, Authors P, 2002.
7. Childs, P and R Fowler. *The Routledge Dictionary of Literary Terms*, Routledge, 2006.
8. Cuddon, J A. *A Dictionary of Literary Terms and Literary Theory*, 4/E, Penguin, 2000.
9. Fowler, R (ed.), *Dictionary of Modern Critical Terms*, Routledge, 1987.

#### LN1205: HISTORY OF BRITISH LITERATURE [3 1 0 4]

**The Age of Chaucer (1340– 1400):** Characteristics of the age; Poets; **The Age of Shakespeare (1557 –1625):** Characteristics of the age; Poets; University Wits; Dramatists; Prose writers; **The Age of Milton (1625– 1660):** Characteristics of the age; Poets; Dramatists; Prose writers; **The Age of Dryden (1660– 1700):** Characteristics of the age; Poets; Dramatists; The Rise of Modern Prose writers; **The Age of Pope (1700 – 1745):** Characteristics of the age; Poets; Prose writers; **The Age of Johnson (1745– 1798):** Characteristics of the age; Poetry of Transition; Naturalism; Romantic Revival; Poets; Prose Writers; **The Age of Wordsworth (1798-1832):** Characteristics of the age; Romantic Poetry, Prose writers and Novelists; **The Age of Tennyson (1832 – 1887):** Characteristics of the age; Pre Raphaelite Poetry; Prose writers; Novelists; **The Age of Hardy (1887 – 1928):** Irish Poets and Dramatists; Novelists; Prose writers; **The Modern Age (1930 – 1955):** Characteristics of the age; Prose writers; Novelists; Drama.

##### References:

1. Albert, Edward. *History of English Literature*, OUP India, 1997.
2. Long, W. J. *A Short History of English Literature*, Maple P, 2000.
3. Hudson, W. H. *An Outline History of English Literature*, Atlantic Publishers, 2007.

#### LN1206: BRITISH LITERATURE [3 1 0 4]

Introduction to British Literature; **Poetry:** Edmund Spenser “One Day I Wrote Her Name upon the Strand”; John Milton “On His Blindness”; John Donne “The Canonization”; William Shakespeare “When to the Sessions of Sweet Silent Thought”; William Blake “London”; Robert Browning “My Last Duchess”; S. T. Coleridge “Kubla Khan”; Matthew Arnold “Dover Beach”; **Play:** William Shakespeare *A Midsummer’s Night’s Dream*; **Prose:** Philip Sidney “The Defense of Poesy”; Francis Bacon “Of Marriage and Single Life”; Charles Lamb “Dream Children”; **Fiction:** Jonathan Swift *The Battle of the Books*.

##### References:

1. Lamb, Charles. *The Essays of Elia*. Forgotten Books, 2012.
2. Bacon, Francis. *The Essays*. Penguin, 1986.
3. Wilde, Oscar. *The Importance of Being Earnest*. Fingerprint, 2015.
4. Sidney, Philip. *English Essays: Sidney to Macaulay*. Vol. XXVII, The Harvard Classics. P.F. Collier & Sons, 2001.
5. Greenblatt, Stephen Ed. *The Norton Anthology of English Literature*, W. W. Norton & Company, 2006.
6. Shakespeare, William. *The Complete Works of William Shakespeare*. Wordsworth Edition, 1996.
7. Swift, Jonathan. *The Battle of the Books*. First edition, CreateSpace Independent Publishing Platform, 2014.

#### LN2105: AMERICAN LITERATURE [3 1 0 4]

Introduction to American Literature; **Poetry:** Walt Whitman “Crossing Brooklyn Ferry”; Emily Dickinson “Success is Counted Sweetest”; Robert Frost “Mending Wall”; Hilda Doolittle “Garden”; Sylvia Plath “Lady Lazarus”; Wallace Stevens “Thirteen Ways of Looking at a Black Bird”; Gertrude Stein “What do I See”; **Play:** Tennessee Williams *A Glass Menagerie*; Arthur Miller *Death of a Salesman*; **Prose:** Henry David Thoreau “Civil Disobedience”; **Fiction:** Harper Lee *To Kill a Mockingbird*.

##### References:

1. Fisher, William J. *American Literature of the Nineteenth Century: An Anthology*. Eurasia Publishing House, 1970.
2. Gray, Richard. *A History of American Literature*. Wiley-Blackwell, 2004.
3. Lee, Harper. *To Kill a Mockingbird*, RHUK, 2010.
4. Miller, Arthur. *Death of a Salesman*. Penguin Modern Classics, 2011.

5. Oliver, Egbert S. *An Anthology: American Literature (1890-1965)*, S. Chand, 2007.
6. Williams, Tennessee. *A Glass Menagerie*. Penguin Modern Classics, 2009.

#### LN2106: INDIAN ENGLISH LITERATURE [3 1 0 4]

Introduction to Indian English Literature; **Poetry:** Toru Dutt "The Lotus"; Swami Vivekananda "Kali the Mother"; Sarojini Naidu "The Queen's Rival"; Sri Aurobindo "The Pilgrim of the Night"; A.K. Ramanujan "A River"; Nissim Ezekiel "Goodbye Party for Miss Pushpa TS"; Kamala Das "My Grandmother's House"; **Play:** Mahesh Dattani *Final Solutions*; **Prose:** APJ Abdul Kalam *Mission India: A Vision for Indian Youth*; **Fiction:** Amitav Ghosh *Sea of Poppies*.

#### References:

1. Dattani, Mahesh. *Final Solutions*. Penguin India, 2005.
2. De Souza, Eunice. *Early Indian Poetry in English: An Anthology (1829-1947)*. OUP, 2006.
3. Ghosh, Amitav. *Sea of Poppies*. Penguin India, 2015.
4. Kalam, Abdul APJ. *Mission India: A Vision for Indian Youth*. Penguin India, 2015.
5. Keralavarma, B. *Understanding India - Reflections on Indian Polity, Secularism and Sustainable Environment*. Laxmi Publications, 2010.
6. Naik, M. K. *A History of Indian English Literature*. Sahitya Akademi, 1992.
7. Singh, R. P. and S. K. Prasad. *An Anthology of Indian English Poetry*, Orient BlackSwan, 1999.

#### LN2206: GENDER STUDIES [3 1 0 4]

Introduction to Gender Studies; The Theory and Praxis of Gender Studies; Critical Terms in Gender Studies; Gayatri C. Spivak "Three Women's Texts"; Serena Nanda "Hijras as Neither Man Nor Woman"; Amartya Sen "Many Faces of Gender Inequality"; Imitiaz Dharker "Purdah I"; Uma Parmeshwaran "I Wish I Knew What to Tell you, My Daughter"; Virginia Woolf *Orlando: A Biography*; Alice Walker *The Colour Purple*.

#### References:

1. Ablove, Henry, et al, Eds. *The Lesbian and Gay Studies Reader*. Routledge, 1993.
2. Butler, Judith. *Gender Trouble: Feminism and the Subversion of Identity*. 1<sup>st</sup> edition, Routledge Classics, 2006.
3. Connell, R.W. *Masculinities*. 2<sup>nd</sup> edition, U of California P, 2005.
4. Goodman, Lizbeth. *Literature and Gender (Approaching Literature)*. 1<sup>st</sup> edition, Routledge, 1996.
5. Sen, Amartya. "Many Faces of Gender Inequality." *Frontline*, Vol. 18, Issue 22, Oct. 27 - Nov. 09, 2001.  
<https://frontline.thehindu.com/static/html/fl1822/18220040.htm>
6. Spivak, Gayatri C. "Three Women's Texts and a Critique of Imperialism." R.R. Warhol and D. P. Herndl (eds), *Feminisms*, MacMillan, 1997, pp. 896-912.
7. Walker Alice. *The Colour Purple*. Mariner Books, 2003.
8. Woolf, Virginia. *Orlando: A Biography*. Mariner Books, 1973.

## 2. PHILOSOPHY

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	AT1141	Introduction to Philosophy	3 1 0 4
2	II	AT1242	Introduction to Logic	3 1 0 4
3	II	AT1243	Ethics	3 1 0 4
4	III	AT2144	Modern Indian Thought	3 1 0 4
5	III	AT2145	Contemporary Western Philosophy	3 1 0 4
6	IV	AT2246	Intercultural Philosophy	3 1 0 4

#### AT1141: INTRODUCTION TO PHILOSOPHY [3 1 0 4]

**The WHAT of Philosophy:** Who are Philosophers? Definition of "Philosophy," The Issues of Philosophy, The Method to deal with these Issues, The Characteristics of Philosophy, Philosophy, Religion and Culture. **The WHY of Philosophy:** Why Study Philosophy? Is Philosophy Avoidable? **The BRANCHES of Philosophy:** Logic, Epistemology, Ethics, Metaphysics, Aesthetics, Applied Philosophy. **The HOW (Method) of Philosophy:** Rational and Analytic, Intuitive and Experiential. **The GEOGRAPHY of Philosophy (Philosophies in the World):** Tribal Philosophy, Indian Philosophy, Western Philosophy, Chinese Philosophy, Islamic Philosophy, African Philosophy. **The PROBLEMS of Philosophy:** Problems in Metaphysics, Epistemology, Philosophy of Mind, Moral Philosophy, Philosophy of Science and of Nature, Philosophy of Religion, Philosophy of God, Social Philosophy, Aesthetics.

#### References:

1. Harold, T. *Living Issues in Philosophy*, Oxford University Press, New York, 1995.
2. Perumalil, A. *An Introduction to Philosophy*, ISPCK, New Delhi. 2001.
3. Datta, D. M. & Chatterjee, S.C. *An Introduction to Indian Philosophy*, University of Calcutta, Calcutta, 1968.
4. Sarukkai, S. "Indian Philosophy and Philosophy of Science," *PHISPC*, Motilal Banarsidass, New Delhi, 2005.

#### AT1242: INTRODUCTION TO LOGIC [3 1 0 4]

**Introductory Topics:** Formal Logic: Nature, value and limits of Formal Logic; Defining: sentence, proposition, argument, truth, validity, soundness; Terms: meaning of "term"; kinds and classification of terms. **Definitions:** Meaning and kinds of definitions; Characteristics of good definitions; Limits of definitions. **Propositions:** Meaning and kinds of Propositions; Basic components of Propositions; Categorical Propositions; Square of Opposition – Conversion of Propositions and Modern View. **Inference:** Meaning and Kinds of Inference; Inductive and Deductive Inference; Syllogistic Reasoning: Categorical, Hypothetical, Disjunctive; Inductive Inference. **Fallacies.**

#### References:

1. Copi, I. *Introduction to Logic*, Macmillan Publishing Company, London, 1990.
2. Connor, D. J. & Powell, B. *Elementary Logic*, Hodder, London, 1980.

#### AT1243: ETHICS [3 1 0 4]

**Ethics: Meaning, scope and relevance, "morals":** teleological vs deontological ethics - a brief review of Western ethical views from Ancient Thought to Today; Indian Ethical Systems - Ethics in (a) Hinduism (b) Jainism (c) Buddhism (d) Islam. **Moral Consciousness and Moral Language: Moral Judgement and Theories:** Nature, foundation and object of moral judgement, motive and intention, teleological and ontological theories, ethical realism and intuitionism, ethical cognitivism and non-cognitivism, Kant's moral theory, eudaemonism, theories of punishment, Indian schools of moral theory. **Morality and Life:** Good, right, justice, cardinal virtues, duty and obligation, freedom and responsibility, crime and punishment, utilitarianism, situation ethics, ethical pluralism. **Applied Ethics:** some issues in Bio-medical ethics, business ethics, environmental ethics, professional ethics, environmental ethics, and ethics of mass media; Ethical issues in Casteism, Gender equality, Technology, and Peace.

#### References:

1. Harold, T. *Ethics for Today*, Van Nostrand Reinhold Company, 1976.
2. Mackenzie, A *Manual of Ethics*, Cosimo, Inc., 2005.
3. Piet, J. & Prasad, A. (eds.), *An Introduction to Applied Ethics*.
4. Karma, R. P. *Causation and Retributive Morality*, Indian Council of Philosophical Research, Delhi, 1989.
5. Singer, P. *Practical Ethics*, Cambridge University Press, 1999.
6. Sharma, R.N. *Outlines of Ethics*.
7. Lillie, W. *An Introduction to Ethics*, Methuen, 1961.

#### AT2144: MODERN INDIAN THOUGHT [3 1 0 4]

Background, Swami Vivekananda: man, universal religion; practical Vedanta. Sri Aurobindo: reality as "satcitananda,"; three phases of reality- evolution; mind and supermind; integral yoga. Mohammed Iqbal: intellect and intuition; self; perfect man. Rabindranath Tagore: man and God; religion of man. S. Radhakrishnan: God and the Absolute; intellect and intuition; the idealist View of life. J. Krishnamurti: the self; freedom from the known; inner revolution. M.K. Gandhi: truth; non-violence; swaraj; sarvodaya; critique of modern Civilization. B.R. Ambedkar: critique of social evils; neo-Buddhism. Daya Krishna: conceptual thinking, creativity in philosophy. Raimon Panikkar: interculturality, cosmotheandric vision.

#### References:

1. Lal, B.K. *Contemporary Indian Philosophy*, Mohanlal Banarsidas, Delhi, 1978.
2. Bishop, D. H. (ed.) *Thinkers of the Indian Renaissance*, Wiley Eastern, New York, 1982.
3. Grover, V. *Political Thinkers of Modern India*, Deep & Deep Publications, New Delhi, 1990.
4. Rao, N. *Contemporary Indian Philosophy*, Bharatiya Vidyabhavan, Bombay, 1970.
5. Sharma, A. *Modern Hindu Thought: An Introduction*. Oxford University Press, 2005.
6. Krishna, D. *The Nature of Philosophy*, Prachi Prakashan, 1955.
7. Panikkar, R. *The Cosmotheandric Insight. Emerging Religious Consciousness*.

#### AT2145: CONTEMPORARY WESTERN PHILOSOPHY [3 1 0 4]

**Post-Kantian Idealism:** Hegel: The conception of *Geist* (spirit), The dialectical method, The concepts of being, non-being and becoming, absolute idealism. **Positivism and Pragmatism:** Karl Marx: Dialectical, historical and atheistic materialism, critique of religion, humanism; William James and C.S Pierce: Pragmatic theories of meaning and truth. **Empirical Realism:** Bertrand Russell: Refutation of Idealism, logic as the essence of philosophy, logical atomism.

**Logical Positivism and Analytical Philosophy:** A.J. Ayer: The verifiability theory of meaning, the verification principle, rejection of metaphysics, unity of science; Wittgenstein: Language and reality, facts and objects, names and propositions, the picture and use theory, philosophy and language, forms of life; G. Ryle: Systematically misleading expressions, category mistake, concept of mind, critique of Cartesian dualism; G.E. Moore: Refutation of Idealism, defence of common sense, philosophy and analysis. **Philosophies of Life and Phenomenology:** Nietzsche: Critique of western culture, will to power; Husserl: Reduction through bracketing, Noesis-Noema and the object. **Existentialism:** Sartre: Negative existentialist mood, being and nothingness, freedom,



being in-itself and being for-itself, theory of consciousness ; Heidegger : Man as being- in- the-world, facticity and fallenness, authenticity and inauthenticity, time and historicity.

#### References:

1. Copleston, F. *A History of Philosophy*, Vols. VII, VIII & IX. Image Books, New York, 1993.
2. Caponigri, A. R. *A History of Western Philosophy*, Vol. 5. Notre Dame University Press, 1971.
3. Thilly, F. *A History of Philosophy*, H. Holt and Company, 1914.
4. Rogers, A. K. *A Student's History of Philosophy*, Macmillan, London, 1932.
5. Russell, B. *History of Western Philosophy*, Routledge, Delhi, 2004.
6. Walsh, M.J. *A History of Western Philosophy*, Chapman, London, 1984.
7. Jones, W.T. *A History of Western Philosophy*, Wadsworth Publishing; 2nd edition, 1969.
8. D'Connor, *A Critical History of Western Philosophy*, Free Press/Collier-Macmillan, 1964.
9. Stumpf, S.E. *Socrates to Sartre and Beyond*, McGraw-Hill Humanities/Social Sciences/Languages, 8 edition, 2007.

#### AT2246: INTERCULTURAL PHILOSOPHY [3 1 0 4]

**The Context and Need of Interculturality:** The Monoculturalistic Contemporary Human Situation: The Three-fold Crisis of Our Times, One Possible Root Cause: Monoculturalism; Some Prominent Features of the Monoculturalistic World-View, Some Consequences; The Need for an Intercultural Enterprise. **Clarification of Fundamental Concepts:** Culture, Cultural Diversity, Cultural Pluralism, Interculturality, Philosophy and Interculturality. **Proposals for Interculturality in Different "Cultural Areas" of Life:** Economics, Politics, Science, Religion, Ecology.

#### References:

1. Dallmayr, *Beyond Orientalism. Essays on Cross-Cultural Encounter*, SUNY Press, New York, 1991.
2. Kimmerle, H. & Wimmer, M. (eds.), *Studies in Intercultural Philosophy*, Satyailayam Publications, Chennai, 2001.
3. Mall, R.A. *Intercultural Philosophy*, Rowman & Littlefield, 2000.
4. Panikkar, R. *The Rhythm of Being*, Orbis Books, New York, 2010.
5. Anthony Savari Raj. *A New Hermeneutic of Reality. R. Panikkar's Cosmotheandric Vision*, Peter Lang AG, Bern, New York et al, 1998.
6. Bhargava, R. et al (eds.). *Multiculturalism, Liberalism and Democracy*, Oxford University Press, 1999.

### 3. POLITICAL SCIENCE

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	AT1151	Elements of Political Science	3 1 0 4
2	II	AT1252	Indian Political Systems	3 1 0 4
3	II	AT1253	Political Theory	3 1 0 4
4	III	AT2154	Western Political Thought	3 1 0 4
5	III	AT2155	International Affairs	3 1 0 4
6	IV	AT2256	Public Administration in India with Special Reference to Local Self Government	3 1 0 4

#### AT1151: ELEMENTS OF POLITICAL SCIENCE [3 1 0 4]

**Introduction:** Meaning, Definition, Scope and Nature of Political Science, Traditional and Modern Perspective of Political Science, Behaviouralism and Post Behaviouralism, **The State:** Elements , **The Government:** Organs: Executive: Functions, Characteristics, Expansion in the functions of the Executive, Legislature : Functions, Characteristics, its decline, Judiciary : Functions, Characteristics, Independence of the Judiciary, Its greater role, Separation of Powers, Recent trends, Parliamentary and Presidential Governments , Unitary and Federal forms of Government , Evolution of the State : **Theories** : Divine, Force, Social Contract, Evolutionary.

#### References:

1. Ray, A. & Bhattacharya, M. *Political Theory: Ideas & Institutions*, The World Press Pvt.Ltd., Kolkata, 2014.
2. Eddy, A. & Misra, K.K. *Political Theory* ; S.Chand & Company Ltd., Delhi, 2012.
3. Kapur, A.C. *Principles of Political Science*, S. Chand & Co., New Delhi, 2008.
4. Verma, S.P. *Modern Political Theory*, Paperback, 1975.
5. Verma, S. L. *Advanced Modern Political Theory: Analysis and Technologies*, Rawat Publications, 2008.
6. Gauba, O.P. *An Introduction to Political Theory*, MacMillan, New Delhi, 2013, 2<sup>nd</sup> edition.

#### AT1252: INDIAN POLITICAL SYSTEM [3 1 0 4]

**Brief Introduction of the Indian National Movement; Evolution of Indian Constitution** with reference to the Government Of India Acts 1909, 1919 and 1935, **The Political System:** Concept and Features, **Features of the Indian Political System** : Constitution : Preamble, Federalism, Division of Powers: Executive, Legislature and Judiciary, Fundamental Rights, Directive Principles of State Policy, Fundamental Duties; **Indian Party System:** National and Regional Parties, Coalition Politics, Determinants of Indian Politics (Religion, Caste etc.); **State** Legislature, Executive and Judiciary, **Local Self Government in India.**

#### References:

1. Easton, D. (1953) *The Political System: An Inquiry into the State of Political Science*, Alfred A. Knopf Inc. : New York.
2. Almond, G.A. & Powell, B. (1966) *Comparative Politics: A Developmental Approach*, Boston: Little Brown.
3. Narain, I. (1972), *Twilight or dawn: the political change in India, 1967-71*, Shiv Lal Agarwal : Agra
4. Kothari, R. (2012) *Politics in India*, Orient Blackswan : Hyderabad.
5. Kothari, R. (2010), *Caste in Indian Politics*, Orient Blackswan : Hyderabad.
6. Basu, D. D. (2006) , *An introduction to the Constitution of India*, Prentice Hall : New Delhi.
7. Siwach, J. R. (1990) *Dynamics of Indian government and politics*, Sterling Publishers : New Delhi.
8. Brass, P. (1994), *Politics of Indian Since Independence, 2nd edition*, Cambridge University Press: Cambridge.

#### AT1253: POLITICAL THEORY [3 1 0 4]

**Introduction-** Meaning, Nature and Scope of Political Theory, Decline and resurgence. **Theories-** Liberalism & Neo-Liberalism, Marxism & Neo-Marxism, Socialism & Neo-Socialism, Post-Feminism, Post-Modernism **Major concepts in Political Theory-** Rights, Citizenship, Justice, Liberty, Law, Sovereignty, Power, Authority and Legitimacy: Different forms, Democracy: Procedural, Deliberative, Participatory and Representative.

#### References:

- 1- Ramaswamy, S. (2003) *Political Theory: Ideas and Concepts*, Macmillan : New Delhi.
- 2- Gauba, O. P. (1981) *An Introduction to Political Theory*, Macmillan: New Delhi.
- 3- Kapoor, A.C. (2005) *Principles of Political Science*, Sterling: New Delhi.
- 4- Agarwal, R.C. (2000) *Political Theory: Principles of Political Science*, S. Chand & Company Ltd: New Delhi.
- 5- Bhargava, R. & Acharya, A. (2008) *Political Theory: An Introduction*, Pearson Education : New Delhi.
- 6- Heywood, A. (2015), *Political Theory: An Introduction*, Palgrave Macmillan: London.
- 7- Varma, S. P. (1983) *Modern Political Theory*, Vikas: New Delhi.
- 8- Laski, H. J (1948) *A Grammar of Politics*, Allen and Unwin : London
- 9- Verma, S. L. (2008) *Advanced Modern Political Theory*, Rawat: New Delhi.
- 10- Johari, J. C. (2012) *Contemporary Political Theory: New Dimensions, Basic Concepts & Major Trends*, Sterling: New Delhi.

#### AT2154: WESTERN POLITICAL THOUGHT [3 1 0 4]

**Plato:** Ideal State, Philosopher King, Education, Justice and Communism; **Aristotle:** State, Examining the statement ,“Sub ideal state of Plato is the ideal state of Aristotle” ,Citizenship, Slavery, Revolution; **Machiavelli** : Machiavelli as a child of his own age, father of modern age, teachings to the Prince, Machiavelli and Kautilya, **Social Contractualists** : **Hobbes, Locke and Rousseau:** Human Nature, State of Nature, Social Contract Theory, Idea of the Sovereign; **Jean Bodin** : Idea of State and Sovereignty, **Karl Marx** : Dialectical Materialism, Theory of Surplus Values, Communism.

#### References:

1. George, S. H. (1973) *A History of Political Thought*, Oxford University Press : Oxford.
2. Barker, E. (2013) *Greek Political Theory : Plato and his Predecessors*, 1st Edition, Routledge : London.
3. Ramaswamy, S. & Mukherjee, S. (2011) *A History of Political Thought: Plato to Marx* , Prentice Hall India : Delhi.
4. Johari, J.C. (2012) *Political Thought : Ancient and Medieval*, Metropolitan Book Co.Pvt Ltd. : New Delhi.
5. Nelson, B. (2008) *Western Political Thought*, Pearson Longman: Delhi.

#### AT2155: INTERNATIONAL AFFAIRS [3 1 0 4]

**Theories of International Relations:** Realism vs. Non Realism, **World Wars and their impact:** World War 1 and 2, **International Organisations** : League of Nations; United Nations; **World Orders** : Cold War; Détente , Etente, Unipolar world vs. Multipolar world;; **India's foreign policy**;; its major determinants, Non-Alignment, Policy with neighbours, Foreign Policy with U.S., China and Pakistan, Non-Aligned-Movement (NAM), South Asian Association for Regional Cooperation (SAARC), BRICS, G20 and G7; **Major international issues post Cold War** : Regionalism, Globalisation, the role and importance of transnational actors such as regional organisations and others.

#### References:

1. Morgenthau, Hans J. (2007) *Politics Among Nations: The Struggle for Power and Peace*, Kalyani Publishers: Ludhiana.
2. Baylis, John, Smith, Steve and Owens, Patricia (2013) *The Globalization of World Politics: An Introduction to International Relations*, 6<sup>th</sup> Edition, Oxford University Press: Oxford.
3. Khanna, V. N. (2009), *International Relations*, 4<sup>th</sup> Edition, Vikas Publishing House: Mumbai.
4. Palmer & Perkins (2001) *International Relations*, 3<sup>rd</sup> Edition, CBS Publishers: Delhi.
5. Goldstein, Joshua S. and Jon, Pevehouse C. (2008), *International Relations*, Pearson Longman: London.
6. Viotti, P. R. & Kauppi, M. V. (2012) *International Relations Theory*, 4<sup>th</sup> Edition, Pearson Longman: London.
7. Robert, A. J. and Jervis, Robert, (2005) *International Politics: Enduring Concepts*, Pearson Longman: London
8. Nye, J. & Welch, D. A. (2012) *Understanding Global Conflict And Cooperation*, 9<sup>th</sup> Edition, Pearson Longman: London.

#### AT2256: PUBLIC ADMINISTRATION IN INDIA WITH SPECIAL REFERENCE TO LOCAL SELF GOVERNMENT [3 1 0 4]

Indian Constitution, **Central Administration** : President, Prime Minister, Council of Ministers, Cabinet, PMO, U.P.S.C., Elections, Finance Commission, Neeti Aayog, **Control** : Legislative, CAG, Judicial, **State Administration** : Governor, Chief Minister, Council of Ministers, State Secretariat, R.P.S.C., **District Administration** : Meaning, Evolution and functions, **Rural Local Bodies** with special



reference to the 73<sup>rd</sup> and 74<sup>th</sup> Constitutional Amendment, Zila Parishad, Samiti, Gram Panchayat and Gram Sabha, **Urban Local Bodies** : Municipal Corporation, Municipal Council and Committees; Election Commission and Finance Commission at local level; Administrative reforms: Lok Pal and Lok Ayukta.

#### References:

##### Books :

1. Arora, Ramesh K. (2012), *Indian Public Administration: Institutions and Issues*, 3<sup>rd</sup> Edition, New Age International Publishers : New Delhi.
2. Sharma, P.D. and B.M. Sharma (2009), *Indian Administration : Retrospect and Prospect*, Rawat Publications : New Delhi
3. Khera, S.S. (1964) *District Administration in India*, Asia Publishing House : New Delhi
4. Singh, Hoshiar and Mohinder Singh (1989) *Public Administration in India: Theory and Practice*, New Delhi: Sterling Publishers Private Ltd.
5. Avasthi A. (1980) *Central Administration*, New Delhi: Tata Mc Graw Hill.
6. Jain, R.B. (1980) *District Administration*, Mussoorie : Indian Institute of Public Administration.
7. Puri, K.K. (1985) *Local Government in India*, Jalandhar : Bharat Prakashan.
8. Jain, S.P. (ed.) (1995) *Panchayati Raj Institutions in India: An Appraisal*, Hyderabad: NIRD.
9. Prasad, Ram Narayan (2002), *Governance of India : Issues and Perspectives*, Aizawl : North Eastern Hill University
10. Puri, K.K. (2006) *Indian Administration*, Jalandhar : Bharat Prakashan.

##### Journals:

1. *Public Administration*, London.
2. *Indian Journal of Public Administration*, Indian Institute of Public Administration, New Delhi.
3. *Prashasnaika*, Rajasthan Institute of Public Administration, Jaipur.

## 4. SOCIOLOGY

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	AT1161	Introduction to Sociology	3 1 0 4
2	II	AT1262	Sociological Thinkers	3 1 0 4
3	II	AT1263	Society and Polity	3 1 0 4
4	III	AT2164	Introduction to Indian Society and Culture	3 1 0 4
5	III	AT2165	Understanding Rural Society: Continuity and Changes	3 1 0 4
6	IV	AT2266	Sociology of Social Stratification in India	3 1 0 4

#### AT1161: INTRODUCTION TO SOCIOLOGY [3 1 0 4]

**Origin of Sociology as a discipline:** Nature and Scope of Sociology, Difference between Sociology and other Social Sciences; Sociological Methods; The Individual and Society; Community and Association; Culture, Social Organization; **Social Institutions:** Family, Marriage, Kinship, Religion; Socialisation; Social Control and deviance; Social Roles and Identity, Groups and Network, Social Capital; **Social Issues:** Inequality and Stratification in India; Race and Ethnicity; Religion and Society; Education and Society; Gender.

#### References:

1. Atal, Y. (2008). *Changing Indian Society*, Jaipur: Rawat Publications.
2. Beteille, A. (2002). *Sociology: Essay on Approach and Method*, New Delhi: OUP.
3. Bottomore, T.B. (1972). *Sociology: A guide to problems and literature*, Bombay: George Allen and Unwin.
4. Davis, K. (1981). *Human Society*, Delhi: Surjeet Publications.
5. Giddens, A. (2005). *Sociology*, London: Polity Press.
6. Inkless, A. (1987). *What is sociology?* New Delhi: Prentice Hall of India Pvt. Ltd.
7. Jayaram, N. (1988). *Introductory Sociology*, Madras: Macmillan India.
8. Johnson, H. M. (1995). *Sociology: A Systematic Introduction*, New Delhi: Allied Publishers.
9. Macdonis, J. (1996). *Sociology*, New Jersey: Prentice Hall.
10. Mills. C.W. (1967). *The Sociological Imagination*, Harmondsworth: Penguin.

#### AT1262: SOCIOLOGICAL THINKERS [3 1 0 4]

**Auguste Comte:** Historical context, Classification and Ordering of Social Sciences, The Nature, Method and Scope of Sociology, Law of Three Stages of Society; **Herbert Spencer:** Historical context, Synthetic Philosophy, Evolutionism, Organic Analogy and Social Darwinism; **Emile Durkheim:** Historical context, The Division of Labour in Society, The Rules of Sociological Method, Suicide, The Elementary Forms of Religious Life; **Karl Marx:** Historical context, Materialist Theory of History, Theory of Ideology, Theory of Alienation, Dialectical view of History; **Max Weber:** Historical context, Theme of Rationalization in Weber's work, Class, Status and Party, The Protestant Ethic and the Spirit of Capitalism, Social Action, Bureaucracy; **Talcott Parsons:** Historical context, Social Action Theory, Structural Functionalism.

#### References:

1. Giddens, A. (1971). *Capitalism and Modern Social Theory*, Cambridge University Press.
2. Ritzer, G. & Goodman, D.J. (2003). *Sociological Theory*, McGraw-Hill.
3. Durkheim, E. (1982). *The Rules of Sociological Method*, Macmillan.
4. Weber, W. (1949). *The Methodology of the Social Sciences*, Free Press.
5. Marx, K. (1967). *Capital*, Vol. I., Progress Publishers.
6. Parsons, T. (1985). *On Institutions and Social Evolution: Selected Writings* (Heritage of Sociology Series), University of Chicago Press.
7. Merton, R.K. (1970). *Social Theory and Social Structure*, Free Press.

#### **AT1263: SOCIETY AND POLITY [3 1 0 4]**

**Introduction to Political Sociology:** Nature and Context; Concepts and Paradigms—Power and Authority, Political Systems, Conflict and Change, Action and Process in Politics; **State and Civil Society:** States, Classes and Elites, Forms of Government: Monarchy, Dictatorship, Aristocracy, Democracy; Interplay between Government and Civil Society; **State, Polity and identity:** Nation and Caste, Power and Class relation, culture (hegemonic beliefs). Political ecology; Weber on Forms of Domination, the State and the Ruling Class; **New Social movement:** The Rise of Market Society; Market Fundamentalism; and Double Movements, Protest, Movements and Resistance.

#### **References:**

1. Bottomore, T. (1983). *Political Sociology*, Bombay: BI Publications, Introduction, pp. 7-19.
2. Balandier, G. (1970). *Political Anthropology*, London: Allen Lane, Chapter 1, The Construction of Political Anthropology', pp. 1-21.
3. Weber, M. (1978). *Economy and Society: An Outline of Interpretive Sociology*, Volume I, Berkley: University of California Press, Chapter III, pp. 212-254.
4. Lukes, S. (2005). *Power: A Radical View*, Hampshire: Palgrave, Chapter 1, 'Power: A Radical View', pp. 14-59.
5. Middleton, J. (1958). *Tribes without Rulers: Studies in African Segmentary Systems*, New York: Humanities Press, Introduction, pp. 1-30.
6. Dahl, R. (2004). *Modern Political Analysis*, Englewood: Prentice Hall, Chapters 4, 6, 7 and 8.
7. Sluka, J. A. (1992). 'The anthropology of Conflict' in Carolyn Nordstrom (ed.) *The Paths to Domination, Resistance and Terror*, Berkley: University of California Press, pp. 18-36.
8. Dahrendorf, R. (1959). *Class and Class Conflict in an Industrial Society*, London: Routledge and Kegan Paul, Chapter V, Social Structure, Group Interests and Conflict Groups, pp. 157-205.
9. Shah, G. (2004). *Caste and Democratic Politics in India*, London: Anthem Press.

#### **AT2164: INTRODUCTION TO INDIAN SOCIETY AND CULTURE [3 1 0 4]**

**Evolution of Indian society and Culture:** Characteristics of Indian Society, Tribal, Rural, Urban, Industrial and Post Industrial societies in India; **Culture:** Definition and Nature, Types- Material and Non- Material; **Socialization:** Its importance, Process and Stages; **Social Control:** Its Types and Means; **Processes of Social Change:** Characteristic Features of Industrialization, Modernization, Globalization and Secularization, Fundamentalism, Identity Crisis, Communalism, Regionalism, Universalization and Parochialization.

#### **References:**

1. Bottomore, T.B. (1972). *Sociology: A Guide to Problems and Literature*, Bombay, George Allen and Unwin (India).
2. Dube, S.C. (2000). *Indian Society*, NBT, India.
3. Fulcher & Scott. (2003). *Sociology*, New York: Oxford University Press.
4. Giddens, Anthony. (2005). *Sociology*, Polity Press.
5. Harlambos & Holborn. (2000). *Sociology*, London: Harper-Collins.
6. Harlambos, M. (1998). *Sociology: Themes and Perspective*, New Delhi: Oxford U. Press.
7. Inkeles, A. (1987). *What is Sociology?* New Delhi: Prentice-Hall of India.
8. Johnson, H. M. (1995). *Sociology: A Systematic Introduction*, New Delhi: Allied Publishers.
9. Kapadia, K.M. (1982). *Marriage and Family in India*, Oxford University Press, New Delhi.
10. Maciver & Page. (1974). *Society: An introductory Analysis*, New Delhi: Macmillan & co.
11. Mandelbaum, D.G. (1972). *Society in India*, Bombay: Popular Prakashan.
12. Herskovits, M.T. (1974). *Cultural Anthropology*, New Delhi: Oxford & IBH Publishing Co.
13. Ralph L. B. & Hoijer, H. (1972). *An Introduction to Anthropology*, New York: Macmillan.
14. Sankarrao, C.N. (2007). *Sociology: Principles of Sociology with an Introduction to Social Thoughts*, New Delhi: S. Chand Publication.
15. Sharma K.L. (1986). *Essays in Social Stratification*, Jaipur: Rawat Publications.
16. Singer, M. & Cohn, B.S. (1996). *Structure and Change in Indian Society*, Jaipur: Rawat.
17. Singh Y. (1983). *Modernisation of Indian Tradition*. Jaipur: Rawat Publications.
18. Smelser, Neil J. (1993). *Sociology*, Prentice Hall of India-Pvt. Ltd.
19. Tumin, M.M. (1994). *Social Stratification: The Forms and Functions of Inequality*, New Delhi: PHI.

#### **AT2165: UNDERSTANDING RURAL SOCIETY: CONTINUITY AND CHANGES [3 1 0 4]**

**Introduction to Rural Sociology:** Origin, Nature, Subject Matter and Importance; **Rural Social Structure:** Caste and Class in Rural Setup, Inter Caste relation with reference to Jajmani System; Rural family and changing pattern; **Rural Economic structure:** Land Tenure System, Land Reforms; Green Revolution and Its Impact; Bonded and Migrant Labourers; Major Changes in Rural Society; Impact of Liberalisation, Privatisation and Globalization policies; Swaminathan Committee Recommendations; **Rural Political Structure:** Traditional Caste and Village Panchayats; Rural Distress and Farmers Unrest; Panchayati Raj before and after 73<sup>rd</sup> Constitutional Amendment, Panchayati Raj and Empowerment of Women.

#### References:

1. Altekar, A.S. (1927). *The History of Village Communities in Western India*, Bombay: Bombay University Economic Series, 1(5).
2. Atal, Y. (2003). *The Studies of the Village in India in Indian Sociology from Where to Where: Footnotes to the History of the Discipline*, Jaipur: Rawat Publications.
3. Bailey, F.G. (1963). *Politics and Social Change: Orissa 1959*. London: O.U.P.
4. Desai, A.R. (1996). *Rural Sociology in India*, Bombay: Popular Prakashan.
5. Desai, A.R. (1979). *Rural India in Transition*, Bombay: Popular Prakashan.
6. Dube, S.C. (1988). *India's changing Village: Human Factor in Community Development*, Bombay: Himalayan Publishing House.
7. Gupta, D. (2005). Whither the Indian Village. *Economic and Political Weekly*, 40(08).
8. Maheshwari, S.R. (1985). *Rural Development in India*, New Delhi: Sage Publication.
9. Pradhan, P.K. (1988). *Land, Labour and Rural Poverty*, Bombay: Himalayan Publishing House Ltd.
10. Rao, K.V. (1962). Democratic Decentralization and the quest for leadership. *India Journal of Political Science*, XXII(4), p. 322.
11. Razvi, S. (2003). *Agrarian Change, Gender and Land Rights* Blackwell.
12. Srinivas, M.N. (1963). *India's Villages*. India: Asia Publishing House.
13. Vivek, R. & Bhattacharya (1985). *The New Strategies of Development in Village India*, Metropolitan.
14. Screening of movies & documentaries: Mango Girl (2013), The Revolutionary Optimists (2013), Padman (2018), Swades (2004), Mother India (1957), Peepli Live (2010).

#### AT2266: SOCIOLOGY OF SOCIAL STRATIFICATION IN INDIA [3 1 0 4]

**Introduction:** Concepts and Theories: This section will introduce the systems and forms of stratification and key concepts. Theories, including functionalism and its critiques; **Forms of Stratification:** Caste- Origin, Theories of Caste System, Changing nature of Caste in contemporary India. Empirical studies on Caste including in the labour market etc. SC/ST/OBC/Denotified tribes; Class- Concept, Theories, concept of Class in India; Gender and Stratification- concepts such as sex and gender, gender inequalities in the labour market, caste and its interaction with gender.

#### References:

1. Davis, K. & W.E. Moore. (1945). *Some Principles of Stratification*. American Sociological Review, 10(2):242.
2. Gupta, D. (ed.) (1991). *Social Stratification*. Delhi: Oxford University Press. [Chap. 1] 4.
3. Tumin, M. M. (1953). *Some Principles of Stratification: A Critical Analysis*. American Sociological Review, 18 (4): 387-945.
4. Tumin, M. M. (1987). *Social Stratification: the forms and functions of inequality*. New Delhi: Prentice Hall of India. [pp. 1-7].
5. Chakravarti, U. (1995). "Gender, Caste, and Labor: Ideological and Material Structure of Widowhood." *Economic and Political Weekly*: 2248-2256.
6. Crompton, R. & Mann, M. (ed.) (1986). *Gender and Stratification*. Cambridge: Polity Press. [Chapter 1]
7. Ambedkar, B.R. (1916). *Castes in India: Their Mechanism, Genesis and Development*, Anthropology Seminar of Dr. A. A. Goldenweizer at The Columbia University, New York, U.S.A. on 9th May 1916, Source: Indian Antiquary, May 1917, Vol. XLI.

## 5. PSYCHOLOGY

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	PS1140	Basics Psychological Processes-I	3 1 0 4
2	II	PS1240	Basics Psychological Processes-II	3 1 0 4
3	II	PS1241	Abnormal Psychology	3 1 0 4
4	III	PS2140	Fundamentals of Social Psychology	3 1 0 4
5	III	PS2142	Developmental Psychology	3 1 0 4
6	IV	PS2240	Organizational Psychology	3 1 0 4

#### PS1140: BASICS PSYCHOLOGICAL PROCESSES-I [3 1 0 4]

Introduction and Methods of Psychology- Definition, fields and goals of Psychology. Approaches and perspectives to understanding psychology; Methods of study-Observation, experiments, case study, cross-sectional and longitudinal method; Attention and Perception: Attention: Definition, characteristics and selective attention; Perception: Perceptual Organization: Gestalt Laws of organization, Figure and Ground perception, Depth perception Perceptual constancy, Illusions; Learning: Meaning and definition of learning; Operant Conditioning, classical Conditioning, Cognitive learning; Modeling and social

learning, Learning Curve; Memory and Forgetting: Basic processes of Memory, Stages of Memory, Models of Memory, Measurement of memory, Causes of forgetting and Mnemonics.

**References:**

1. Ciccarelli, S.N. & White, J.N. *Psychology: An exploration (5<sup>th</sup> ed.)*. Pearson Publications. 2017.
2. Robert A. Baron, *Psychology, 3<sup>rd</sup> Edition*. India: PHI. 1995).
3. Wortman & Loftus, *Psychology, 4<sup>th</sup> Edition*. New Delhi: McGraw Hill International(1992).
4. Morgan, K., & Schopler, W *Introduction to Psychology, 7<sup>th</sup> Edition*. New Delhi: McGraw Hill, .(1989).

**PS1240: BASICS PSYCHOLOGICAL PROCESSES-II [3 1 0 4]**

Motivation: Definition, Meaning and Types of motives; need hierarchy model, Techniques of assessing motivation; Emotions: Nature, types and physiology of emotions. Theories of emotions; Stress and Coping-Definition and Nature of stress; Types and Sources of stress; Coping and stress management techniques; Intelligence: Meaning, Nature and Theories of Intelligence; Determinants and Measurement of Intelligence; Personality: Definition, Meaning and determinants of personality; Approaches to study of personality; Assessment of personality. Thinking and Reasoning: Mental image and concept formation; Types of thinking-Divergent and Convergent thinking, Reasoning, Judgment, problem solving, Creativity and Problem solving.

**References:**

1. Ciccarelli, S.N. & White, J.N. *Psychology: An exploration (5<sup>th</sup> ed.)*. Pearson Publications. (2017).
2. Robert A. Baron, *Psychology, 3<sup>rd</sup> Edition*. India: PHI. 1995).
3. Wortman & Loftus, . *Psychology, 4<sup>th</sup> Edition*. New Delhi: McGraw Hill International(1992)
4. Morgan, K., & Schopler, W. *Introduction to Psychology, 7<sup>th</sup> Edition*. New Delhi: McGraw Hill.(1989)

**PS1241: ABNORMAL PSYCHOLOGY [3 1 0 4]**

Introduction to Abnormality: The concept of normality and abnormality. Characteristics of abnormal behavior; Difference between normal and abnormal behavior. Classification of abnormal behavior (DSM); Causal factors of abnormal behavior; Anxiety Disorders and OCD: Nature and types of Anxiety disorders-Phobias and panic disorder, Obsessive-compulsive disorders, generalized anxiety disorders; Schizophrenia & Delusional Disorder: General symptoms, types & causes (briefly) Delusional Disorder (paranoid) Clinical picture & causes; Mood Disorder: Normal depression, symptoms of mild to moderate & moderate to severe mood disorder, causal factors; Personality Disorders & Substance Abuse: Anti-social Personality, Crime & Delinquency; Nature, types and treatment of substance abuse.

**References:**

1. Butcher, J.N., Mineka, S., & Hooley, J.M. *Abnormal Psychology, 12<sup>th</sup> Edition*. Allyn & Bacon, (2004)
2. Sarason, I.G., & Sarason, B.R. *Abnormal Psychology: The problem of maladaptive behavior*, Tenth Edition. Prentice Hall. (2002).
3. John M Neale, Gerald, C Davidson & David A.F. Haaga *Exploring Abnormal psychology (6<sup>th</sup> Ed)* John Wiley & Sons. (1996).

**PS2140: FUNDAMENTALS OF SOCIAL PSYCHOLOGY [3 1 0 4]**

Introduction: Nature, goal and scope of social psychology and other social sciences; Methods of social psychology-Experimental and non-experimental methods; Social Perception and Cognition: Perceiving ourselves- self-concept, self-esteem, self-presentation and self- expression. Perceiving others-Impression formation, Attribution theory; Attitudes: Nature and functions of attitudes, Attitude and behaviour, formation, change and measurement of attitudes; Leadership and Group Behaviour: Definition, functions and types of leaders; Characteristics of an effective leader, theories of leadership. Group Structure and functions, Social facilitation and loafing, Conformity and compliance, Group cohesiveness and group think; Pro-social and Aggressive Behaviour: Determinants of helping behaviour, Roles of empathy, learning and attribution in helping; bystander effect, Promoting helping behaviour; Meaning and definition of aggression, Theoretical perspectives of aggressive behaviour, Role of Personal and social factors, Prevention and control of aggression.

**References:**

1. Baron, R. A., Branscombe, N. R., & Byrne, D. *Social Psychology (12th Eds.)*. Boston, MA: Pearson/Allyn and Bacon, ,2009
2. Myers, D.G *Social Psychology, 7th international*, NY: McGraw Hill. (2002).

**PS2142: DEVELOPMENTAL PSYCHOLOGY [3 1 0 4]**

Human Development: Meaning, Principles and Theories of Human Development; Biological and Environmental Factors of Development; Relation between Hereditary & Environment; Prenatal & Infancy: Biological, Physical, Cognitive, Emotional & Social Development; Childhood: Physical, Cognitive, Emotional, moral & Social Development; Adolescence: Biological, Physical, Cognitive, Emotional and Social Development; Adulthood and Old Age: Physical, Cognitive, Emotional, moral & Social Development, Characteristics and problems of old age.

**References:**

1. Berk, L.E..*Development through the life span, 5<sup>th</sup> Edition*. India: Pearson, 2009
2. Hurlock, E. B. (1981). *Developmental Psychology- A life-span approach 5<sup>th</sup> edition*, India: Tata McGraw Hill Publication.
3. Papalia, D. E. & Olds, S.W., (2017). *Human Development,9<sup>th</sup> International edition*. India: McGraw Hill Publication.



**PS2240: ORGANIZATIONAL PSYCHOLOGY [3 1 0 4]**

Introduction & roots of Organizational Psychology, The multidisciplinary approaches, theories: Classical neoclassical and modern theory X, theory Y and Theory Z; The Individual and organization: Job attitudes and job satisfaction; Theories and correlates of job satisfaction & job behaviour; Leadership and Group behaviour in Organization: Nature and types. Behavioral theories: Contingency theories and contemporary issues in Leadership, Power and authority, supervision and participating management, effective leader and manager; Group Structure and Functions of Groups, Communication in organizations; Work motivation and Performance: Need theories, Models of work motivation, Managerial motivation; Conflict and Stress in Organizations: Nature, sources and techniques of managing conflict in Organizations. Negotiation strategies, Organizational role stress, reactions to role stress and management of stress.

**References:**

1. Dwivedi, .R.S..Human Relations and Organisational Behaviour (5 Edition). New Delhi: Macmillan India (2010)
2. Luthans, F. Organizational behavior, 11th Edition. New York: McGraw Hill. (2006)
3. Robbins, S.P.. Organizational Behavior: Concepts, controversies and applications. 7<sup>th</sup> Edition, New Delhi: Prentice Hall of India. (2000)
4. Schein, Edgar H Organizational Psychology. New Delhi: Prentice Hall of India. (1990).
5. Pareek, U. & Rao, T.V.. Behavioral process in organizations. New Delhi: IBN, (1981)

**6. STATISTICS**

S.No.	Sem	Course Code	Name of the Course	LTPC
1	I	MA1140	Descriptive Statistics	3 1 0 4
2	I	MA1240	Probability and Random Variables	2 1 0 3
3	II	MA1241	Applied Statistics	2 1 0 3
4	III	MA2140	Distribution Theory	2 1 0 3
5	III	MA2141	Sampling Theory	2 1 0 3
6	VI	MA3240	Design of Experiment	2 1 0 3

**MA1140: DESCRIPTIVE STATISTICS [2 1 0 3]**

Introduction of Statistics: Definition, scope, uses and limitations; Types of Data: Qualitative and quantitative data, nominal and ordinal data, time series data, discrete and continuous data, frequency and non-frequency data; Collection of Data: Collection of primary and secondary data- its major sources, classification and tabulation of data; Presentation of Data: Frequency distribution and cumulative frequency distribution, diagrammatic and graphical presentation of data, construction of bar, pie diagram, histogram, frequency polygon, frequency curve and ogives; Measures of Central Tendency and Location: Arithmetic mean, median, mode, geometric mean, harmonic mean, partition values-quartiles, deciles, percentiles and their graphical location along with their properties, applications, merits and demerits; Measures of Dispersion: Characteristics for an ideal measure of dispersion, absolute and relative measures of dispersion, range, inter quartile range, quartile deviation, coefficient of quartile deviation, mean deviation, coefficient of mean deviation, standard deviation, coefficient of variation and properties of these measures; Moments, Skewness and Kurtosis: Moments about mean and about any point and their relationship, effect of change of origin and scale, Sheppard's correction for moments (without derivation), Charlier's checks, coefficients of skewness and kurtosis with their interpretations; Bivariate Data: Scatter diagram, correlation, product moment correlation coefficient and their uses, rank correlation, concept of multiple correlation and partial correlation in case of three variables, regression analysis.

**References:**

1. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand and Co., 3rd edition, New Delhi, 2008.
2. V.K. Rohtagi and A K.MD.E Saleh, An Introduction to Probability & Statistics, John Wiley & Sons, 2011.
3. A.M. Goon, M.K. Gupta, B. Dasgupta, Fundamental of Statistics, Vol.-I, World Press, 2016.
4. A.M. Mood, F.A. Greybill, and D. C. Bose, Introduction to the Theory of Statistics, McGraw Hill, 2001.

**MA1240: PROBABILITY AND RANDOM VARIABLES [2 1 0 3]**

Probability Theory: Random experiments, sample space, event, algebra of events, Definitions of Probability, theorems on probability, Boole's inequality, conditional probability, independent events, Bayes theorem and its applications; Random Variable: Random variable, distribution function, discrete random variable, probability mass function, distribution function of discrete random variable, continuous random variable, probability density function, distribution function of continuous random variable. joint probability mass function, marginal probability function, conditional probability function, joint distribution

function, marginal distribution function Joint density function, marginal density function, stochastic independence, independent random variables; Mathematical Expectation: Definition, expected value of random variable, expected value of a function of a random variable, addition and multiplication theorems and their generalizations, covariance, expectation and variance of a linear combination of random variable, Cauchy-Schwartz inequality, conditional expectation and conditional variance; Generating Functions: Definition, limitations and properties of moment generating function, uniqueness theorem, cumulates, properties of cumulates, effect of change of origin and scale, characteristic function, properties of characteristic function, uniqueness theorem. Probability generating function.

#### References:

1. A.M. Mood, F.A. Greybill, and D.C. Bose, Introduction to the Theory of Statistics, McGraw Hill, 2001.
2. S.C. Gupta and V. K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand and Co., 3rd edition, New Delhi, 2008.
3. P. L. Meyer, Introductory Probability and Statistical Applications, Addison-Wesley, 2017.
4. P.G. Hoel, Introduction to Mathematical Statistics, Asia Publishing House, 1984.
5. G.W. Snedecors and W.G. Cochran, Statistical Methods, Iowa State University Press, 1991.
6. A.M. Goon, M.K. Gupta and B. Dasgupta, Fundamental of Statistics, Vol. I, World Press, Calcutta, 2005.

#### MA1241: APPLIED STATISTICS [2 1 0 3]

Demand Analysis: Laws of demand and supply, price and supply elasticity of demand, partial and cross elasticity of demand, income elasticity of demand, utility function, methods of determining demand and supply curves from family budget and time series data, Leontief's method, Pigou's method, Engel curve and its different forms, Pareto's law of income distribution, curves of concentration, Index Numbers: Introduction and their construction, Laspeyres's, Paasche's, Marshall –Edge Worth and Fisher's index numbers, tests for index numbers, uses of index numbers, price, quantity and value relatives, link and chain relatives, chain base index numbers, cost of living index numbers; Time Series: Analysis of time series, components of time series, trend measurement by mathematical curves, polynomial, growth curves, moving average method, Spencer's formulae, Effect of elimination of trend on other components of time series, variate difference method and its use for estimation of variance of the random component, measurement of seasonal fluctuations measurement of cyclical component, periodogram analysis; Statistical Quality Control: Control charts for variable and attributes, acceptance sampling by attributes- single, double, multiple and sequential sampling plans, concepts of average outgoing limit (AOQL), acceptable quality limit (ATI), acceptance sampling by variables-use of Dodge-Romig and other tables.

#### References:

1. S.C. Gupta and V.K Kapoor, Fundamentals of Applied Statistics, Sultan Chand and Co., 3rd edition, New Delhi, 2008.
2. P. Mukhopadhyay, Mathematical Statistics, Books & Allied (P) Ltd., 2009.
3. D.C. Montgomery, Introduction to Statistical Quality Control, Wiley India Ltd., New Delhi, 2009.
4. A.M. Goon, M.K. Gupta and B. Das Gupta, Fundamentals of Statistics, Vol.-2, 2001.
5. P. Mukhopadhyay, Fundamental of Statistics, Vol.-2, 1999.
6. B.L. Agarwal, Basic Statistics, Wiley India Ltd., New Delhi, 2012.

#### MA2140: DISTRIBUTION THEORY [2 1 0 3]

Discrete Probability Distributions: Bernoulli distribution, Binomial distributions, Poisson distribution, Poisson distribution as a limiting case of Binomial distribution, Negative Binomial distribution, Geometric distribution, Hyper-geometric distribution and their properties; Continuous Probability Distribution: Uniform distribution, Normal distribution, Exponential distribution, Beta distribution, Gamma distribution, Cauchy distribution and their properties; Limit Laws: Convergence in probability, almost sure convergence, convergence in mean square and convergence in distribution, weak law of large numbers (WLLN), strong law of large numbers (SLLN), De-Moivre-Laplace theorem, central limit theorem (C.L.T.) for i.i.d. variates, Liapunov theorem and applications of C.L.T.

#### References:

1. A.M. Goon, A.K. Gupta, and B. Dasgupta, Fundamental of Statistics, Vol. I, World Press, Calcutta, 2005.
2. A.M. Mood, F.A. Greybill, and D.C. Bose, Introduction to the Theory of Statistics, McGraw Hill, 2001.
3. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand and Co., 3rd edition, New Delhi, 2008.
4. W. Feller, An Introduction to Probability Theory and Its Applications, Vol. 1, 3rd edition, John Wiley, 2005.
5. P. Mukhopadhyay, Mathematical Statistics, Books & Allied Ltd., 2009.
6. N.L Johnson, S. Kotz and A.W Kemp, Univariate discrete distributions, John Wiley, 1992.
7. N. L Johnson, S. Kotz and N Balakrishnan. Continuous Univariate distributions I & II, John Wiley, 1991.
8. S. Kotz, N. Balakrishnan and N.L. Johnson. Continuous Multivariate distributions, John Wiley and sons, 2000.



**MA2141: SAMPLING THEORY [2 1 0 3]**

Introduction: Concept of population and sample, need for sampling, complete enumeration versus sampling, basic concepts in sampling, sampling and non-sampling errors, acquaintance with the working (questionnaires, sampling design, methods followed in field investigation, principal findings, etc.) of NSSO and other agencies under taking sample surveys; Simple Random Sampling With or Without Replacement: Estimation of mean, total, variance, proportion, equivalence of different definitions, sample size problem; Stratified Sampling: Estimation of mean, total, proportion and optimum allocation, comparison with simple random sampling without replacement, post stratification; Systematic Sampling Scheme: Linear and circular systematic sampling, comparison with SRS and stratified sampling schemes, linear trend, simple method of variance; Cluster Sampling: Estimation of mean and total, relative efficiency and its estimation, optimum unit of sampling and multipurpose surveys, result on equal and unequal clusters; Two Stage Sampling: results on equal and unequal first sampling unit, allocation of sample, comparison with one stage sampling, effect of change in size of first sampling unit.

**References:**

1. S. Singh, Advanced Sampling Theory and Applications, Springer Science Business Media, 2003.
2. P. Mukhopadhyay, Theory and Methods of Survey Sampling, New Delhi, 2015.
3. D. Singh and F.S. Chaudhary, Theory and Analysis of Sample Survey Designs, New Age International Publication, 2018.
4. S. Sampath, Sampling Theory and Methods, Narosa Publishing House, New Delhi, 2000.
5. Des Raj, Sample Survey Theory, Narosa Publishing House, New Delhi, 2000.
6. W.G. Cochran, Sampling Techniques, John Wiley and Sons, New York, 1977.
7. P.V. Sukhtme, B.V. Sukhatme, S. Sukhatme, and C. Ashok, Sampling Theory of Surveys with Applications, Indian Society of Agricultural Statistics, New Delhi, 1984.

**MA3240: DESIGN OF EXPERIMENTS [2 1 0 3]**

Analysis of Variance: Analysis of Variance for one- way, two -way with one/m observations per cell for fixed, mixed and random effects models, Tukey's test for non- additivity; Design of Experiment: Basic principles of experimental design, general block design and its information matrix, criteria of connectedness, balance and orthogonality, analysis of completely randomized, randomized blocks and Latin-square designs; Factorial Experiments: Symmetrical factorials, -experiment and -experiment.

**References:**

1. M.N. Das and N.C. Giri, Design and Analysis of Experiments, Wiley Eastern Ltd, 1986.
2. A.M. Goon, M.K. Gupta and B. Dasgupta, Fundamentals of Statistics, Vol. II, 8th edition. World Press, Kolkata, 2005.
3. S.C. Gupta and V.K. Kapoor, Fundamentals of Applied Statistics, Sultan Chand and Co., 3rd edition, New Delhi, 2008.
4. M. D. Morris, Design of Experiment An Introduction Based On Linear Models, Chapman and Hall/CRS, 2017.
5. D. C. Montgomery, Design and Analysis of Experiments, John Wiley, 2008.
6. A. Dey, Theory of Block Design, J. Wiley, 1986.



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## **Manipal University Jaipur**

Jaipur-Ajmer Express Highway, Dehmi Kalan, Near GVK Toll Plaza,  
Jaipur - 303007, Rajasthan, India

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