

Syllabus

(to be effective from June 2019)

Subject : Economics

Programme: M. A.

(M. A. Economics-Regular & External CBCS)

Faculty: Faculty of Arts

Saurashtra University, Faculty of Arts - M.A. Economics : Syllabus Structure

Syllabus for M.A. Economics (Regular & External)

Programme Faculty of Arts, Saurashtra University, Rajkot

(with effect from June 2019)

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SR. NO	Level	Sem-ster	Course Group	Course Title	Course NO.	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks	Course(Paper) Unique Code
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Semester Three : Total 20 credits (Three Core Courses + Two Inter Disciplinary courses)

23	PG	III	COR-III - 07	International Economics-1	COR-III -07	4	30	70	-	100	1601250102030700
24	PG	III	COR-III - 08	Contemporary Indian Economy-1	COR-III -08	4	30	70	-	100	1601250102030800
25	PG	III	COR-III - 09	Environmental Economics: Concept and Theories	COR-III -09	4	30	70	-	100	1601250102030900
26	PG	III	ICT-III-1.1	Agricultural Economics: Theories	ICT-III-1.1	4	30	70	-	100	1601250502030101
27	PG	III	ICT- III- 1.2	Basic Mathematics for Economists	ICT- III-1.2	4	30	70	-	100	1601250502030102
28	PG	III	ICT- III-	Economics of Financial Management	ICT- III-1.3	4	30	70	-	100	1601250502030103

Saurashtra University, Faculty of Arts - M.A. Economics : Syllabus Structure

			1.3								
29	PG	III	ICT- III-1.4	Economics of Gender and Development	ICT- III-1.4	4	30	70	-	100	1601250502030104
30	PG	III	ICT- III-2.1	Labour Economics -1	ICT- III-2.1	4	30	70	-	100	1601250502030201
31	PG	III	ICT- III-2.2	Econometrics	ICT- III-2.2	4	30	70	-	100	1601250502030202
32	PG	III	ICT- III-2.3	Economics of Insurance Services	ICT- III-2.3	4	30	70	-	100	1601250502030203
33	PG	III	ICT- III-2.4	Computer Applications in Economic Analysis - 1	ICT- III-2.4	4	30	40	30	100	1601250502030204

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SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Indian Economic Thoughts and Thinkers** No.: **ECT—II_4.4**

Course Unique Code: 1901250302020204

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

SR. NO	Level	Sem-ster	Course Group	Course Title	Course NO.	Cred it
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Semester Four : Total 20 credits (Three Core Courses + Two Inter Disciplinary Courses)

34	PG	IV	COR-IV -10	International Economics-2	COR-IV -10	4
35	PG	IV	COR-IV -11	Contemporary Indian Economy-2	COR-IV -11	4
36	PG	IV	COR-IV -12	Environmental Economics: Issues and Policies	COR-IV -12	4
37	PG	IV	ICT-IV-3.1	Agricultural Economics: Issues and Policies	ICT-IV-3.1	4
38	PG	IV	ICT- IV-3.2	Basic Statistics for Economists	ICT- IV-3.2	4
39	PG	IV	ICT- IV-3.3	Economics of Regionalism	ICT- IV-3.3	4
40	PG	IV	ICT - IV-3.4	Economics of Transportation	ICT - IV-3.4	4
41	PG	IV	ICT- IV-4.1	Labour Economics -2	ICT- IV-4.1	4
42	PG	IV	ICT- IV-4.2	Econometric Applications	ICT- IV-4.2	4
43	PG	IV	ICT- IV-4.3	Law and Economics	ICT- IV-4.3	4
44	PG	IV	ICT- IV-4.4	Computer Applications in Economic Analysis - 2	ICT- IV-4.4	4

Note:-

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1. Abbrevition:

OCT = Core Course

ECT = Elective Course (Two courses to be taken in each of First and Second Semesters)

ICT = Elective / Inter / Multi Disciplinary Course (Two courses to be taken in each of Third and Fourth Semesters)

2. This is for Regular and External MA Economics Programme

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **International Economics-1** No.: **CORE-III_07**

Course Unique Code: 1901250102030700

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Core	4	30	70	-	100

Course Objectives:-

- International trade acts as an engine of growth.
- It is necessary for P.G. students in economics to know International trade Theories, practices and policies, It will help them to examine impact of trade policies followed by welfare implications.

Course Contents:

Unit-1 :Concept of Inter-regional and International Trade; Theory of Comparative Advantage, Hecksher-Ohlin Theory of trade, Factor Endowment and Factor Price, Leontief Paradox. Empirical verification and relevance of Theories; International Trade under Imperfect Competition.

Unit-2 : Terms of Trade and Economic Growth; Secular deteri/ation of terms of trade hypothesis : a critical review; International trade as an engine of growth; Gains from Trade and LDCs ; FOREIGN Trade Multiplier: Trade and Labour Skills Theory by Donald Kessing; Research and Development factor and Structure of Commodity Trade (By Gruber, Mehta and Vernon)

Unit-3: Measurement of Gains from Trade; Concepts of Terms of trade, their uses and limitation; Factors affecting Terms of Trade. Impact of Tariffs; Political economy of Non-tariff Barriers; Trade and Development; Trade as engine of growth: Two Gap analysis- views of Prebisch, Singer and Myrdal.

Unit-4: Meaning and concepts of Balance of Trade and Balance of Payment - Equilibrium and Disequilibria in Balance of Payment - The process of adjustment under systems of Gold Standard - Steps to Corerect imbalance of payments, traditional and monetary approaches for adjustment in the Balance of Payment- Theory of international reserves- Theory of FOREIGN Exchange Rate

Text and Reference Books:

1. Salvat/e D. "Theory and Problems of International Economics", McGraw-Hill, New York, 1983.
2. Soderasten B.O. "International Economics", The Macmillan Press Ltd. London, 1991.
3. Dunn R.M. and J.H. Mutti. "International Economics", Routledge, London, 2000.
4. Joshi Rakesh, "Anter Rashtriya Arthashstra" in Gujarati Uni. Rajkot., Gujarat, India, 2004.
5. Ellsworth P.T. & J.C. Leith, "The interanational Economy", Mac-Millan, New York, 1975.
6. Walter I & K Areskoug. "International Economics" Mac-Millan, New York, 1975.
7. Ohlin B. "Inter-regional and International Trade", Harvard Uni. Press, Cambridge, 1933.
8. Pearce I.F. "International Trade", Macmillan, London, 1970.
9. Bhagwati. Jagdish "International Trade : Selected Readings", MIT Press, Cabridge, 1981.

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Core	4	30	70	-	100

Course Objectives:-

- The Objectives of this paper at the post-graduate level would be to sharpen the analytical ability of the student by highlighting, and integrated approach to the functioning aspects of the Indian economy.
- Keeping in view the scope for alternative approaches, such an analysis is essential because the Indian economy is a unique amalgam of alternative competing and often conflicting Theories and a proper understanding of its Working is imperative if the student is to comprehend the ramification that underline most of the observed phenomena in the Indian economic set-up.
- The emphasis of the paper is an overall social, political and economic environment influencing policy decisions.
- To develop all the themes, the course is divided into specific modules.
- Paper of planning and development and paper of policies for sector al development fulfill above Objectivess.

Course Contents:

Unit-1 Economic Development

Concept of Economic Growth and Economic Development- Differences between Growth and Development - Classification of World Economies: Countries by Income on the basis of per Capita GNI by World, On the basis of HDI, Quaternary Classification on the basis of Stages of the development etc. - Indicators of Development Silent features of Indian economy - Human Development: Concept-Measurement of HDI- India's progress in human Development - Physical Quality of Life Index (PQLI)

Unit-2 Planning in India

Concept of Economic Planning - Importance of Planning-Objectives of Planning in India Brief Introduction of Indian Five Year Plans- Achievements and Failures of Indian Planning - NITI-Ayog

Unit-3 Problem of Poverty, Inequality & Unemployment in India

Poverty : Concept of Poverty, Absolute and Relative Poverty, Poverty line - Multidimensional Poverty Index - Causes of Poverty, Remedies to remove poverty, Poverty alleviation programme of the Government

Unemployment: Concept of Unemployment, Types (nature) of unemployment in India, Estimation of unemployment in India, Causes of unemployment Measures for removing unemployment, Major Employment Programme of the Government

Inequality: Methods for measuring inequality, Income inequalities in India (Estimation), Measures to reduce income inequality

Unit-4 Public Finance

Federal Finance in India - Finances of Central Government - Finances of State Government - Problem of Financial relations between Centre and State - Indian Tax Structure and Tax Revenue of Central Government - Fiscal Policy: Objectives and Instruments

- Issues of Black money in India

Text and Reference Books:

1. Ahulwaia, J.J. and I.M.D. Little (Eds.) (1999) India's Economic Reforms and Development (Essays in hon/ of Manmohan Singh) Oxford University Press, New Delhi.
2. Bardhan R.K. (9th Edition) The Political Economy of Development in India, Oxford University Press, New Delhi.
3. Buwa, R.S. and P.S. Raikhy (Ed.) (1997) Structural Changes in Indian Economy, Guru Nanak

Dev University press, Amritsar.

4. Brahamanda P.R. and V.R. Panchmukhi (Ed) (2001) Development experience in the Indian Economy Inter-state Perspectives Bozuwell Delhi.
5. Chakravarty S. (1987) Development Planning. The Indian Experience, Oxford University Press, New Delhi.
6. Datwala M.I. (1996) Dilemmas of Growth. The Indian Experience, Sage Publications. New Delhi.
7. Dutt R. Ed. (2001) Second Generation Economic Reforms in Indian, Deep and Deep.
8. Government of India, Economic survey, (annual) Ministry of Finance, New Delhi.
9. Jain A.K. (1986) Economic planning in India. Ashish Publishing, House, New Delhi.
10. Jalan B. (1992) India's Economy - Problems and Prospects, Viking, New Delhi.
11. Jalan B. (1996) India's Economic Policy - Preparing for Twenty First Century, Visking, New Delhi.
12. Joshi, V. and IMD Little (1999) India, Macro Economic and Political Economy 1964-1991, Oxford University Press, New Delhi.
13. Parikh K.S. (1999) Indian Development Rep/t 1999-2000. Oxford University Press, New Delhi.
14. Reserve Bank of India, Rep/t on Currency and Finance (Annual).
15. Ruddar Dutt K.P.M. Sundharam, Indian Economy, S. Chand and Company, New Delhi.
16. Naik Jyoti D. 'Udyog Ni Sthal Pasandgi' Vasuki Printing, Rajkot.

SAURASHTRA UNIVERSITY, FACULTY OF ARTS
Syllabus

Subject: **Economics**

Course Name: **Environmental Economics: Concept and Theories**

No.: CORE-III_09 & Course Unique Code: 1901250102030900

Semester End Exam Time Duration: Regular 2:30 hrs. & External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project				
M.A.	III	Core	4	30	70	100

Course Objectives: - *This course is meant to acquaint student with the basic Theories of Environment economics so that they can develop and use appropriate theoretical frame to analyze and understand important Environmental issues.*

Course Contents

Unit-1: Meaning of Environment economics, Nature and Scope of Environment Economics, Importance of Environment Economics, Various Definitions of Environment Economics, Relationship between Mainstream Economics and Environment Economics, Environment Economics: its positive and normative aspects, Interdisciplinary Relationship with the Environmental Economics, Relationship of Environmental Economics with other Disciplines.

Unit-2: Concept of Market Failure, Market efficiency, Missing Markets and Decision Making, Theory of Parato-optimality, Market failure possibilities in reference to Environmental resources, The Reasons of Market failure, Externalities: Positive and Negative Externalities, Public Goods and Common Properties, Unclear property rights, Size of Population and Environment.

Unit-3: Relationship Between Environmental and Development, Theory of Sustainable Development and Problems, Prof. Brundtland Report on Sustainable Development and Our Common Future, Theory of Transaction Cost by Prof. Ronald Coase and Concept of Pay off Metrix, Effective Factors of Sustainable Development, National and Environmental accounting and Corporate Social Responsibility toward Environment.

Unit-4 : Concept of Renewable Environmental Resources and Non-renewable Environmental Resources, Theory of Capital for the optimal use of Environmental Resources, Theories for the use of Renewable Resources, Theories for the use of Non-Renewable Resource.

Text and Reference Books:

1. Paradva Suresh G. (2010), Environment Economics, Shiv Bindings and Shriji Printing Press, Bhuj
 2. Bhattacharya Ravindra, N. (ed.) (2001), Environment economics, Oxford University Press.
 3. Field, Barry, C. (1997), Environmental Economics: An Introduction, McGraw-Hill, International Edition.
 4. Dasgupta, P., (1982), The Control of Resources, Oxford University Press.
 5. Kerr, J.M. and Other (1997), Natural Resource Economics, Oxford and IBM publishing Co. Pvt. Ltd, Delhi.
 6. Parikh, Jyoti and Kirit Parikh, (1997), Accounting and Vitiation of Environment, John Hopkins University, New York.
 7. Shankar, U, (Ed.) (2001), Environment Economics, Oxford University Press, New Delhi.
 8. Sengupta, R. (2001), Ecology and Economics: An Approach to Sustainable Development, Oxford University Press.
 9. Hanley, N. and Other, (1997), Environment Economics in Theory and Practice, Macmillan.
- Singh, K. (1994), Managing Common Pool Resources: Principles and Practices, Oxford University Press.

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Agricultural Economics: Theories No.: ICT-III_1.1**

Course Unique Code: 1901250502030101

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	70	-	100

Course Objectives:-

- The Objectives of the course is to familiarize student with policy issue that are relevant to Indian Agricultural Economics sand enable them to analyze the issues.
- Using basic micro economic concepts.

Course Contents:

Unit-1: Agricultural and Economic Development:

- The nature and scope of Agricultural economics - Traditional farming practices and modernization- Agriculture's contribution to economic development-The difference between Agronomics and General Economics-Interdependence between Agriculture and Industry

Unit-2: Land Use Policy and Sustainable Agriculture:

- Meaning and types of Land - Different trends of land use and factors influencing of land use -Land Erosion and Conservation-Concepts, goals and questions addressed Sustainable agricultural Development-Meaning, structure, benefits and effects of Greenhouse Farming

Unit-3: Agricultural Production and Productivity:

-The meaning of farm production and productivity and the concept of Production Function-Causes of low productivity and remedies for improvement it in India-The law of Diminishing returns and its importance in decision making
- The Cobweb Theorem

Unit-4 : Agricultural Growth in India

- Green Revolution Components and Effects - Indian agricultural policy - Agrochemicals (chemical fertilizers, pesticides and seeds) And the importance
- Irrigation and mechanization of agriculture

Text and Reference Books:

1. Dantwala M.L. et al. (1991) Indian Agricultural Development since independence, Oxford & IBM, New Delhi.
2. Gulati A. & T. Kelly (1999) Trade liberalization and Indian Agriculture, Oxford, University Press New Delhi.
3. Joshi P.C. (1975) Land Reforms in India, Treads & Prospects, Allied Publishers, New Delhi.
4. Kahlo A.S. and Tyagi D.S. (1983), Agriculture Price Policy in India, Allied publishers, New Delhi.
5. Rao C.H. Hanymantha (1975), Agricultural growth, Rural Poverty and Environment Degradation in India, Oxford University Press, New Delhi.
6. Reserve Bank of India, Rep/t on Currency and Finance (Annual), Mumbai.
7. Rudra A. (1982), Indian agricultural economics, Mythas and Reality, Allied Publishers New Delhi.
8. Saini, G.R. (1979), Farm, Size, Resource Use Efficiency and Income distribution, Allied Publishers, New Delhi.

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Basic Mathematics for Economists No.: ICT-III_1.2**

Course Unique Code: 1901250502030102

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	70	-	100

Course Objectives:-

- Mathematics has found its applications in economics in the form of model building for planning and development.
- Mathematical transformation of the economic Theory provides precision to the logic and understanding of economics.
- This paper intends to train and equip student with the basic understanding of Mathematics, which they may use in advance courses of this subject

Course Contents:

Unit 1: Basics of Mathematics-I: Variables, Types of variables, Relations, Cartesian Product, Function, Inverse Function, power function, exponential function, logarithm function, linear function; Number system, Theory of set.

Unit 2: Basics of Mathematics-II: Concepts of Limit, Continuity and differentiation of a function; Rules of differentiation of function; Concept of Integration, Economic application of Differential and Integral calculus-Consumer's Surplus, Elasticity of Demand and Marginal Revenue.

Unit 3: Determinants and Matrix Algebra: Various properties of determinants, Cramer's Rule; Types of matrices and their properties, Addition, Subtraction, Multiplication and Inversion of Matrices, Applications of Matrix Inversion in Economics-Leontief Input Output Model.

Unit 4: Economic Models: Construction of a Mathematical Model for Economic Applications, Endogenous and Exogenous Variables, Parameters, Constants; Structural and Reduced forms of Equations; Single Market Model, Multiple Market model, National income model.

Text and Reference Books:

1. Blitzer Charles R, 1975, Economy-Wide models, Oxford Uni. Press, NY
2. Chiang A. C. 1990, Fundamental Methods of Mathematical Economics, McGraw Hill, Delhi
3. Deshpande V D , A R Chanderkar and M. L. Vaidya, A New Course in College Algebra, S.Chand and Co. Delhi
4. Kulkarni T G and M K Kelkar,1975, College Algebra, S Chand and Co, Delhi
5. Madnani G M K. 2003, Mathematical Economics, oxford and IBH, Delhi

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Economics of Financial Management No.: ICT-III_1.3**

Course Unique Code: 1901250502030103

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	70	-	100

Course Objectives:-

- Finance is heart of all commercial activity.
- Managers of enterprises today have to deal with financial aspects of commerce.
- So those who intent to apply knowledge of Theory of finance need to get aquatinted with applied aspect of Theory.
- This course aims to fulfill this aspect.
- This course is Inter /Multi disciplinary in nature as this could taken as an applied course by any post graduate student.

Course Contents:

Unit –I: Nature and Scope of Management of Financial Economics; Goals of Finance; Economics of capital Budgeting- Investment Criteria, Estimation of project Cash Flows, Risk Analysis I Capital Budgeting, Computation of Cost of Capital, Capital Budgeting Under Constraints.

Unit –II : Economics of Capital Structure and Firm Value- Net Income Approach, Net Operating income Approach, Modigliani and Miller Approach; Analysis of Optimal Capital structure – EBIT & EPS Analysis, ROI & ROE Analysis, Ratio Analysis, Cash Flow Analysis

Unit – III : Economics of Dividends-Walter Model, G/don Model, Modigliani and Miller Model; Key Dimensions of Dividend Policy; Economics of Working Capital-Estimation of Working Capital, Financing of Working Capital.

Unit – IV : Economics of Cash- Cash Budgeting and its Simulation, Optimal Cash balance, Baumol Model, Miller and /r Model; Economics of Receivables; Discriminate Analysis and Customer Classification; Economics of Invent/y – EOQ Mode, Pricing of Raw materials, Monitoring and Control of Inventories.

Unit – V : Cost-Volume-Profit Analysis; Operating and Financial Leverage; Theories of corporate Valuation – Adjusted Book Value Theory, Direct Comparison Theory, Discounted cash flow Theory; Value Creation Approaches – Marakon Approach, Alcar Approach. McKinsey Approach, Economic value Added (EVA) Approach; Economics of Mergers and Acquisitions.

Text and Reference Books:

1. A. Ch. Shapiro, “Modern corporate Finance”. Macmillan Publishing Co., New York, 1991.
2. Brealey, Myers and Allen, “Principles of corporate Finace”, McGraw Hill, Inc., New York, 8th Edition.
3. D.R. Mehta, “Working Capital Management”, Prentice Hall Inc., Englewood Cliffs, N.J., 1974
4. Deryl N/tcott, “Capital Investment Decision-Making”, Thomson Learning, 1992, ISBN10:1861524587
5. E.I. Altman and M.G. Subrahmanyam (ed.), “Recent advanced in corporate Finance”, Rihard D. Irwin, Inc., Homewood, Ill., 1985
6. F.J.Weston, “The Scope and Methodology of Finance” Prentice Hall, Englewood Cliffs, N.J. 1966
7. G. Donaldson, “ corporate Debt Capacity”, Division of Research, Graduate school of
8. Business administration, Harvard University Press, Boston, 1961
9. H. Beirman, Jr. and S. Smidt, “The Capital Budgeting Decision:, The Macmillan Company, New York, 1988.
10. J. Harold Mulherin, “Mergers and corporate Governance”, Edward Elgar Publishing, 2004. ISBN10:1843764210

11. J.A. Brittain, “ corporate Dividend Policy”, Brookings Institution, Washington D.C., 1996
12. J.C. Van H/ne, “Financial Management and Policy”, brookings Institution, Washington D.C., 1966
13. Jason Draho, “The IPO Decision: Why and How Compainies Go Public”, Edward Elgar Publishing, 2004, ISBN10: 1843766132

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Economics of Gender and Development No.: ICT-III_1.4**

Course Unique Code: 1901250502030104

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	70	-	100

Course Objectives:-

- Gender biases in societal practices and development policies have resulted in persistent gender inequalities.
- It is increasingly being realized that mitigating such inequalities and enhancing women's capabilities and entitlements are crucial to the overall development of the country.
- This course, **Economics of Gender and Development** will provide students understanding of nature of the economic role of women and their contribution to the national economy and economic development on the basis of scientific and non-sexist analysis.
- Specificity of issues pertaining to India be highlighted while teaching.

Course Contents:

Unit-I: Importance and Concepts of Women Studies □ Women in Patriarchal and Matriarchal Societies and Structures, Patriarchal and Matrilineal Systems and Relevance to Present Day Society in India; Economic Basis and Functioning of Patriarchy in Developed and LDCs, Particularly India; Gender Bias in the Theories of Value, Distribution, and Population.

Unit-II: Demography of Female Population: Age Structure, Mortality Rates, and Sex Ratio □ Causes of Declining Sex Ratios and Fertility Rates in LDCs and particularly in India □ Theories and Measurement of Fertility and its Control; Women and their Access to Nutrition, Health, Education, and Social and Community Resources, and their Impact on Female Mortality and Fertility.

Unit-III: Factors Affecting Decision Making by Women; Property Rights, Access to and Control over Economic Resources, Assets; Power of Decision Making at Household, Class, Community Level; Economic Status of Women and its Effect on Work-participation Rate, Income Level, Health, and Education in Developing Countries and India; Role of Kinship in Allocating Domestic and Social Resources. Factors Affecting Female Entry in labour Market; Supply and Demand for Female Labour in Developed and Developing Countries, particularly India; Studies of Female Work Participation in Agriculture, Non- agricultural Rural Activities, Informal sector , Cottage and Small-scale Industries, organized Industry, and Services sector ; Wage Differentials in Female Activities; Determinants of Wage Differentials; Gender, Education, Skill, Productivity, Efficiency, Opportunity; Structures of Wages Across Regions and Economic sectors.

Unit-IV: Concept and Analysis of Women's Work: Valuation of Productive and Unproductive Work; Visible and Invisible Work; Paid and Unpaid Work; Economically Productive and Socially Productive Work □ Economic Status, Private Property, and Participation of women in Pre-industrial and Industrial Societies

— Female Contribution to National Income.

Text and Reference Books:

1. Agnihotri, S.B.: Sex ratio in Indian Population: A Fresh Exploration.
2. Boserup E.: Women's Role in Economic Development.
3. Desai, N. and M.K. Raj. (Eds.): Women and Society in India.
4. Government of India: Towards Equality □ Rep't of the Committee on the Status of Women in India, Department of Social Welfare, Ministry of Education and Social Welfare, New Delhi.
5. ILO: Women's Participation in the Economic Activity of Asian Countries.

6. Kabeer, N. and R. Subrahmanyam (Ed.): Institutions, Relations and Outcomes: A Framework and Case Studies for Gender-aware Planning.
7. Kalpagam, U.: Labour and Gender: Survival in Urban India.
8. Krishnaraj, M., R.M. Sudarshan and A. Shariff: Gender, Population and Development.
9. Mazumdar, V.: Symbols of Power: Studies on the Political Status of Women in India.
10. MHRD, GOI: Shram Shakti: Rep/t of the National Commission on Self-employed Women and Women Workers in the Informal sector , Ministry of Human Resource Development.
11. Narasimhan, S.: Empowering Women: An Alternative Strategy from Rural India.
12. Papola, T.S. and A.N. Sharma (Eds.): Gender and Employment in India.
13. Purushothaman, S.: The Empowerment of Women in India: Grassroots Women's NetWorks and the State.
14. Sen, A.K.: 'Gender and Cooperative Conflicts' in Tinker (Ed.): Persistent Inequalities: Women and WorldDevelopment.
15. Seth, M.: Women and Development: The Indian Experience.
16. Srinivasan, K.: Basic Demographic Techniques and Applications.
17. Srinivasan K. and A. Shroff: India: Towards Population and Development Goals.
18. Venkateswaran, S.: Environment, Development and the Gender Gap.
19. Wazir, R.: The Gender Gap in Basic Education: NGOs as Change Agents.

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Labour Economics – 1** No.: **ICT-III_2.1**

Course Unique Code: 1901250502030201

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	70	-	100

Course Objectives:-

- Labour sector is very vast and wide.
- It included white collar and blue collar jobs.
- As a post-graduate student of student Economics, it is necessary to study Labour Economics.
- It is also important to know the labour Theories, approaches etc. for analyzing labouring problems.
- In India most of the labour are in unorganized sector and their problems are specific.
- The study of labour economic should be systemic, scientific and analytical.
- The syllabus is structured Accordingly for this.
- Here the subject is divided in two parts, namely, Labour Theories and Labour problems. In this section, the Theories of labour are analyzed. In these Theories of labour, the main Theories are Theories of labour market, Theories of wages, Theories migration, productivity Theory, etc

Course Contents:

Unit-1: Introduction of Labour Economics: Meaning and definition of Labour Economics - scope and nature of Labour Economics- peculiarities of Labour, , types of labour- Agricultural Labour and their characteristics - Labour problems in India.

Unit-2 : Labour Market and Labour Productivity: Meaning and definition of Labour Market - characteristics of Labour market, difference between commodity market and labour market- demand of labour and supply of labour – factors affected to demand of labour and supply of labour: Productivity Concept – Importance of productivity - Factors influencing labour productivity

Unit-3 : Wage Analysis: Meaning and definition of wages, concepts of wages – types of wage - components of wages - wage theories- wage theories of marginal productivity, demand-supply Theory, meaning of collective bargaining-factors affecting to collective bargaining.

Unit-4 : The Migration and Absenteeism: Meaning and definition of migration - types of migration, causes of migration– meaning of mobility – types of mobility – difference between migration and mobility- meaning of Absenteeism-Causes and Remedies of Absenteeism.

Text and Reference Books:

1. Guasch, J. Luis, (1999) Labour market reform and Job Creation. The World Bank, Washington. DC.
2. Ghose, Ajit K. (2003), Job and Income in Globalizing World II O.
3. Joshi, M.V. (1999), Labour Economics, Darpan Prakashsan, Rajkot.
4. (1999) Labour Economics and Labour Problems, Atlantic Publications. New Delhi.
5. Marucs Powel (2003), Economic Restructuring and Human Resource Development, Ashgate Publishing, Aldershot.

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6. Remon Gomez, (2005), Labour Supply and Incentives of Work in Europe, EE Publishing, Aldershot.
7. Seth, K.V. and Suresh Chand, (2004), The Economics of Labour Market, Ane Books, New Delhi.
8. Shuji Uchikawa (2003), Labour market and Institutions in India, Manobar Publications, New Delhi.

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Syllabus

Subject: Economics

Course Name : **Econometrics** No.: **ICT-III_2.2**

Course Unique Code: 1901250502030202

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	70	-	100

Course Objectives:-

- Applications of economic Theory need a reasonable understanding of economic relationships and relevant statistical methods.
- The econometric Theory thus becomes a very powerful tool for understanding of applied economic relationships and for meaningful research in economics.
- This paper Accordingly is devoted to equip the students with basic Theory of econometrics and relevant applications of the methods.
- The topics covered in the course include various problems faced in estimation of both single equations and simultaneous equations models.
- The course also covers various econometric methods applicable to different topics in economics and those needed for applied economic research.
- An introductory module on multivariate methods has also been included in the course which constitutes an important tool for analysis in multivariable data in development-related studies.

Course Contents:

Unit – I: Definition and scope of Econometrics - methodology of econometrics - nature and sources of data for econometric analysis - contribution of econometric methods to the development of Economics - limitations of econometric methods.

Unit - II : Two-variable regression analysis : Stochastic and non-stochastic relations - the concept of 'population regression function' and its stochastic specifications - the 'sample regression function' - 'ordinary least-squares' (OLS) method of constructing 'sample regression function' - estimation of regression parameters - assumptions underlying classical linear regression model - properties of least-squares estimates - coefficient of determination r^2 as a measure of 'goodness of fit'.

Unit –III: Violation of the assumptions of classical linear regression model : Auto Correlation and heteroscedasticity - meaning, sources, methods of detection, consequences and remedial measures. Dummy (/ binary) variables : Nature of dummy variables - regression on dummy variables (one quantitative variable and one qualitative variable) - Uses of dummy variables - dummy variables and heteroscedasticity - dummy variables and auto Correlation - dummy variable trap.

Unit -IV : Further problems of regression analysis : Multiple regression model and multicollinearity - consequences of multicollinearity - remedial measures - specification bias - lagged variables and distributed lag models (general form only)

Text and Reference Books:

1. Damodar N. Gujarati, Basic Econometrics, Third Edition, Me Graw-Hill [basic text book for compulsory reading]
2. Koutsoyiannis, Theory of Econometrics, Mac Millan.
3. D. Intriligator, Econometric Models, Prentice Hall of India.
4. Johnston. Econometric Methods, Me Graw-Hill.'
5. G.M.K Madhani, Introduction to Econometrics : Principles and Applications, Oxford and IBM Publishing Company.
6. Damodar N. Gujarati, Essentials of Econometrics, Me Graw-Hill, 1992.

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Syllabus

Subject: Economics

Course Name : **Economics of Insurance Services** No.: **ICT-III_2.3**

Course Unique Code: 1901250502030203

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	70	-	100

Course Objectives:-

- The vital role of insurance in the task of risk-bearing and risk-elimination in the economic affairs has not been appreciated adequately in our country.
- Given that the element of risk / uncertainly is a universal and fundamental phenomenon in our economic life, the importance of insurance as a means of reducing uncertainly and risk in regard personal and business activities cannot be overemphasized.
- The role of insurance sector in mobilizing a country's saving for channeling them into capital formation and thus contribute to a country's economic development is also documented.
- There is a wide spread recognition that insurance, particularly life insurance, is a prominent segment of applied economics.
- Insurance industry is an important constituent of financial services industry in India and is a major investment institution and prominent player in the capital market.
- However, in our country, study of the subject of insurance has largely remained neglected.
- With the opening of the insurance for private Indians and foreign players, the interest in the subject has been kindled.
- The course on Insurance Economics attempts to give a fairly comprehensive view of the subject to the postgraduate students in Economics and pave the way for possible future expansion of the teaching of an important branch of economics.

Course Contents:

Unit- 1: Economic Security: Human quest for economic security through time; Exposure to losses; Role and definition of insurance; Risk pooling and risk transfer; Economic and legal perspectives, Social vs. private insurance; Life vs. non-life insurance; Classification of life, health and general insurance policies.

Unit- 2: Fundamentals of life & health insurance: Functions of life & health insurance; Mathematical basis of life insurance; Plans of life insurance; Legal aspects of life insurance; Provisions of policies; Individual health insurance; Uses and types of evaluation; Principles of underwriting of life & health insurance; Group insurance and superannuation (pension) schemes.

Unit- 3: General Insurance: Types, Principles, Growth of General Insurance corporation in India. Investment Pattern of GIC Funds, Underwriting procedure.

Unit- 4: Regulation of Insurance: Nationalisation of Insurance business in India after independence. Malhotra Committee Rep/t. IRDA Act 1999 – salient features. Entry of private players.

Text and Reference Books:

- Black. K. Jr. and H.D. Skipper Jr.(2000), Life & Health Insurance, Prentice Hall, Upper Saddle River, New Jersey.
- Dionne, G. and S.E. Harrington (eds.) (1997), Foundations of Insurance Economics, Kluwer academic Publishers, Boston.
- Pteffer, I. And D.R. Klock (1974), Perspectives on Insurance, Prentice Hall Inc., Engleword Cliffs.
- Williams Jr., C.A. M.L. Smith and P.C.Young (1995), Risk Management and Insurance, McGraw Hill, New York.

- Skipper Jr., H.D.(ed.) (1998), International Risk & Insurance : An Environmental Managerial Approach, Irwin McGraw Hill, Boston.
- United Nations Conference on Trade and Development (1987), The Promotion of Risk Management in Developing Countries, UNCTAD, Geneva.
- Insurance Institute of India, Life Assurance Underwriting, (IC-22), Mumbai.
- Insurance Institute of India, General Insurance Underwriting, (IC-22), Mumbai.
- Government of India (1998), Old Age and Income Security (OASIS) Rep/t (Dave Committee Rep/t), New Delhi.
- Ivers, J.I. III and E.T. Johnson (eds) (1991), Readings in Wealth Accumulation Planning, The American College, Bryn Mawr, Pa.
- Insurance Regulation and Development Authority (2001), IRDA Regulations, New Delhi.
- Meier. K.J. (1998), The Political Economy of Regulation : The Case of Insurance, The State University of New York Press, Albany, N.Y.
- Pande, G S (2006) : Principles and Practice of Insurance. Kalyani Publications, New Delhi.
- Singh Inderjit, Katyal, Rakesh (2006) : Insurance, Principles and Practices Kalyani Publications, New Delhi.

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Syllabus

(To be Offered by Regular Students at PG Dept/PG Centre having Computer lab facility only)

Subject: Economics

Course Name : **Computer Applications in Economic Analysis - 1No.:**

ICT- III_2.4

Course Unique Code: 1901250502030204

Semester End Exam Time Duration: **(1) Theory -40 marks-90 minutes ;**

(2) Practical -30 marks-60

minutes. Structure of Question Paper for Sem End Exam

- 40 marks Theory and 30 Marks for Practical
- Theory must have descriptive, Short and MCQ type of questions.
- Three practical to be set for Semester End Practical Exam each of 10 marks.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	III	Inter disciplinary	4	30	40	30	100

Course Objectives:-

- The growth and spread of computer and its invasive presence in every sphere of intelligent human activity is forcing every educational system and discipline to adopt and integrate its fundamentals into course curricula.
- It is to produce computer literate and well-educated post-graduates who can get not only employment but also create Work and produce value added output in the society, for which present syllabus is being designed.
- We believe this will make our new graduates m/e proficient, suitable and fit to face the future challenges in society.

Course Contents:

Unit-I : Basics of Computers: Computer fundamentals; organization and components of a computer; Computer hardware — CPU; Memory; Disk drives; Input and output devices; Keyboard; Mouse and VDU; Computer peripherals like printer, scanner, digitizer, etc.; Computer software — Operating system, application software and packages.

Unit-II : WOR

D PROCESSING: Understanding Word Processing; Creating Documents In Word; Starting Microsoft Word; Using The Blank Document Template; Typing Text Into A Document; Saving Your New Document; Typing Numbers Into Your Document; Inserting A Date Into Your Document; Making Basic Changes To Your Document; Checking The Spelling In Your Document; Saving Changes To An Existing Document; Printing Your Document; Safely Closing Your Document; Word Processing Quick Reference.

Unit-III : SPREADSHEETS: How Spreadsheets Work; Spreadsheet Functionality; Starting Microsoft Excel; Understanding Workbooks; Using The Blank Workbook Template; Typing Text Into A Worksheet; Saving Your New Workbook; Typing Numbers Into A Worksheet; Typing Simple formulas In a Worksheet; Easy formulas; Typing Dates In A Worksheet; Easy formatting; Checking Spelling In A Worksheet; Making And Saving Changes; Printing A Worksheet; Charting Your Data; Safely Closing A Workbook; Spreadsheets Quick Reference.

Unit-IV : PRESENTATIONS: Understanding Electronic Presentations; Starting Microsoft PowerPoint; The PowerPoint Screen; Creating A New Presentation; Adding Text To Your Presentation; Saving Your New

Presentation; Adding M/e Slides Using The Ribbon; Typing Directly Into A Slide; Inserting Clip Art Images; Safely Closing A Presentation; Opening An Existing Presentation; Running A Presentation Slide Show; Printing Audience Handouts; Presentations Quick Reference.

Text and Reference Books:

- 2007 Microsoft Office System Step by Step, Microsoft Press
- Office 2013 in easy steps, McGraw Hill Education
- Rajaraman , V. (1996) , Fundamentals of Computers , Prentice Hall of India , New Delhi

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Subject: Economics

Course Name : **International Economics-2** No.: **CORE-IV_10**

Course Unique Code: 1901250102041000

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Core	4	30	70	-	100

Course Objectives:-

- It is necessary to for P.G. student in economics international trade finance and trade finance and trade managing institutions in era of globalization of national economics.
- Economic health of a nation is known by positive balance of payment situation of a nation.

Course Contents:

Unit-1 : Trade policy (Past and Recent) and reforms in India's Trade Policy; Problems relating foreign Trade in India; International Capital Flows in India-FDI, FII etc; Changes in the Volume, Direction and Composition of India's foreign Trade & their implication; Exp/t promotion, Free Trade Vs. Protection and their advantages and disadvantages.

Unit-2 : Theories of Regionalism at Global level; Regional blocs – Multilateralism and world trading system-International trade under conditions of imperfect competition in goods market-Theory of Optimum currency area and its impact in the developed and developing countries

Unit-3 : Function of GATT and WTO - IMF - WORLDBANK - Asian Development Bank - Their achievement and failures. W.T.O. and its impact on the different sectors of the Indian Economy

Unit-4 : The rise and fall of Bretton-Wood; emerging International Monetary System recent reforms therein. Globalisation and Developments in Exchange Markets, Euro-Currency Markets and International Bond markets- International Debt crisis- Exchange Trading, Arbitrage and Market Hedging.

Text and Reference Books:

- Stern R.M. "The Balance of Payment : Theory and Economic Policy", Aldine, Chicago, 1973.
- Thriwal A.P. "Trade, The Balance of Payments and Exchange Rate policy in Developing Countries" University of Kent, Catebury, UK, 2004.
- Datt Rudar and K.P.M. Sundharam "Indian Economy" Saurashtra Univerysity, Rajkot, 2004.
- Sighn Manmohan "India's Exp/t Trends" Claredon Press London.
- Joshi Rakesh : Antar Rashtriya Arthashstra", Saurashtra Uni. Rajkot, 2004
- Cherunilam F. "International Economics", Tata McGraw Hill Publishing Co., New Delhi.
- Frenkel J. and H. Johnson "The Monetary Approach to the Balance of Payments", Allen & Unwin, London, 1975.
- Greenway D. "International trade policy", Macmillan Publishers Ltd. London, 1983.
- Prebisch R. "Towards a New Trade Policy FOR Development", United Nations, New York, 1964.

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Subject: Economics

Course Name : **Contemporary Indian Economy-2 No.: CORE-IV**

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Course Unique Code: 1901250102041100

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Core	4	30	70	-	100

Course Objectives:-

- The Objectives of this paper at the post-graduate level would be to sharpen the analytical of the student and functioning of Indian economy with various policies with alternative approaches for further growth.
- This means that P.G. Students need to be well aware about different policies utilized during planning period in India

Course Contents:

Unit-1 Agriculture Sector

Concept of Primary-Secondary and Tertiary Sector-their Share in India's GDP Importance of Agriculture Sector - Land Reforms in India - Technological Change and Green Revolution in India - Major challenges of Indian Agriculture Sector and its possible solution - Agriculture marketing in India: its problems and governments measures to improve the system of the agriculture marketing - Minimum Support Price (MSP) Policy

Unit-2 Industrial Sector - Importance of Industrial Sector - Problems of Industrial Development in India - New Industrial Policy-1991 and Economic Reforms - Evaluation of Public Sector Enterprise - Privatization and Disinvestment in India - Industrial Sickness: Concept –Causes and Remedies

Unit-3 External Sector : Foreign Trade-Importance of foreign trade-Volume-Composition and Direction of Foreign Trade - Balance of Payment: Concept, India's balance of payment pre 1991period, India's balance of Payment situation post 1991, Cause of imbalance in balance of payment, measures to Correct disequilibrium in Balance of Payments - Current foreign trade policy - Foreign Capital: Need for foreign capital, Sources of foreign Capital - India's external debt - WTO and its impact on the different sector of the economy

Unit-4 Money and Banking - Components of Money Supply - **Central Bank** : Functions of Central bank, Monetary policy of RBI - Structure of banking system in India - **Money Market**: Concept, unorganized Sector of the Indian Money market, Organized sector of Indian Money Market Characteristics (problems) of Indian Money Market, Reforms measures to strengthen Indian Money Market - **Capital Market**: Concept and importance, instruments of capital market, Growth of capital market in India.

Text and Reference Books:

- Ahliwalia, J.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.
- Bardhan R.K. (9th Edition) The Political Economy of Development in India, Oxford University Press, New Delhi.
- Buwa, R.S. and R.S. (Ed) (1997) Structural Changes in Indian Economy, Guru Nanak Dev. University press, Amritsar.
- Brahamanda P.R. and V.R. Panchmikhhi (Ed.) (2001) Development experience in the Indian Economy Inter-state Perspective Bozuwell Delhi.
- Chakravarty, S. (1987) Development Planning. The Indian Experience, Oxford University Press, New Delhi.
- Datwala M.L. (1996) Dilemmas of Growth the Indian Experience, Sage Publications, New Delhi.
- Datt R. Ed. (2001) Second Generation Economic Reforms in India, Deep and Deep.
- Jain A.K. (1986) Economic planning in India; Ashish Publishing House, New Delhi.
- Naik , Jyoti D. 'Udyog Ni Sthal Pasandgi' Vasuki Priting, Rajkot.

Syllabus

Subject: Economics

Course Name: Environment Economics: Issues and Policies

No.: CORE- IV 12 & Course Unique Code: 1901250102041200

Semester End Exam Time Duration: Regular 2:30 hrs. & External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project				
M.A.	IV	Core	4	30	70	100

Course Objectives:- *The main Objectives of this course are to appraise and sensitive student about major environment issues of India and develop skill to analyze them with the help of appropriate theoretical frames.*

Course Contents:

Unit-1: Environment Issues of Primary sector: Changing land-use and cropping pattern and environmental issues, the Problem of Grazing land, Pasture and livestock and its Management, The Problem of Conservation of Forests and Bio-diversity, Supply and Quality of Ground-water and its Management, The Conservation and Management of Marine Fish.

Unit-2: Environment Issues of Secondary sector: Changes in Structure of industries in India, Growth of Pollutant Industries in India after 1991, Concept of Solid and Liquid wastes and its Management, Concept of Air and Water Pollution its Environment Problems, A Case Study of Natural Solutions of Covid – 19 Corona Virus and air - water pollution in India. Environment and Space Pollution.

Unit-3: Environment Issues of Service sector: The Problem of International Boundary Pollution, Concept of Global Warming and Acid Rain, International Trade and Environmental issues, The problem of trade of Hazardous waste, Endangered species and Medicinal plants, the Problem of Patenting, Trade and Environment in WTO system.

Unit-4: Environment Issues and Solutions: Self Discipline and Nature Enforcement, Growth of environmental policy in India, Important Environmental laws in India, international environment agreements and India's approach, Mechanism of implementation of Environment laws in India.

Text and Reference Books:

1. Paradva Suresh G. (2010), Environment Economics, Shiv Bindings and Shriji Printing Press, Bhuj
 2. Chari, S.N. and V yasalu, Vinod. 2000. Environment management: An Indian Perspective, McMillan India Ltd.
 3. Chhatrapati Singh, 1986, Common Property and Common Poverty, India's Forest, Dwellers and the Law, Oxford University Press.
 4. Dasgupta, P. and Maller Karl, 1997, The Environment Emerging Developing Issues, Vol.-I and Vol. -II, Clare den Press, Oxford.
 5. Katar Singh, 1994, Managing Common Pool Resources, Principles and Case Studies, Oxford University Press.
 6. Ramprasad Sengupta, 2001, Ecology and Economics, Oxford University Press
 7. Baumal, W.J. and Oates, 1998, The Theory of Environmental Policy, Cambridge University Press, Cambridge.
 8. Gadgil, M. and Guha, R., 1993, The Fissured Land: An Ecological Hist/y of India, Oxford University Press.
 9. Ramprasad Sengupta, 2001, Ecology and Economics, Oxford University Press.
- Syam Diwam and Arman, R., 2001, Environmental Law and Policy in India, Oxford University Press.

Syllabus

Course Name : **Agricultural Economics: Issues and Policies No.: ICT-IV_3.1**

Course Unique Code: 1901250502040301

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	70	-	100

Course Objectives:-

- The Objectives of this course is to provide a detailed treatment of issues in agricultural economics to those who intend to specialize in agricultural economics.
- The course of the paper help to familiarize student with policy issues relevant to Indian agriculture and enable student to analyze issue problems and policies of the important sector of Indian economy.

Course Contents:

Unit-1: Agriculture -Industries and labor market

-The meaning, form, significance and questions of Agriculture Industries -The Economic status of Agricultural laborers, Meaning, Present statistic, wages and problems - National Rural Employment Guarantee Program (MGNREGA) - Evaluation of rural and agricultural programs in Gujarat

Unit-2: Rural Finance

- The form of agricultural financing in India - Role of Co-operative Sector in Rural Finance - The role of Commercial banks, Regional rural banks and NABARD
- Kissan Credit Card Scheme and Debt Waiver and Debt Relief for Farmers Plan
- The challenges of rural finance

Unit-3: Agricultural Market

- Characteristics of Agricultural Market, Defects and Corrective Measures - Regulated market system - Agricultural price policy objectives, tools and valuations - Buffer stock and food security - Public Distribution System (PDS)
-Terms of trade between the non-agricultural and non- Agricultural sector

Unit-4: Economic Reforms and Agriculture Sector in India

-International Trade in Agricultural Commodities -Globalization means and Advantage and Disadvantage - Effects on Agriculture of Economic liberalization, Privatization And Gglobalization - World Food Assistance - WTO and Indian Farmings - FAO structure and functions

Text and Reference Books:

1. Bhaduri A. (1984) The Economic Structure of Backward Agriculture, Macmillan, Delhi.
2. Blgrami S.A.R. (1996) Agricultural Economics, Himalaya Publishing House, Delhi.
3. S.Dautwala M.L. et al (1991) Indian Agricultural Development since independence. Oxford & IBM, New Delhi.
4. Govt. of India Economic Survey (Annual), New Delhi.
5. Govt. of India, 1976, Rep/t of the National Commission on Agriculture, New Delhi.
6. Gulati A. & T. Kelly (1999) Trade liberalization and Indian Agriculture, New Delhi.
7. Joshi P.C. (1975) Land Reforms in India, Treads & Prospects, Allied Publishers, New Delhi.
8. Kahlo A.S. and Tyagi, D.S. (1983), Agricultural Price policy in India, Allied Publishers, New Delhi.
9. Rao C.H., Hanymantha (1975), Agricultural growth, Rural Poverty and Environmental Degradation in India, Oxford University Press, New Delhi.
10. Reserve Bank of India, Rep/t on Currency and Finance, (Annual), Mumbai.
11. Rudra A. (1982), Indian agricultural Economics, Myths and Reality, Allied Publishers, New Delhi.

Syllabus

Course Name : **Basic Statistics for Economists No.: ICT-IV_3.2**

Course Unique Code: 1901250502040302

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	70	-	100

Course Objectives:-

- Statistics has found its application in economic Forecasting.
- This paper intends to prepare students with basic understanding of statistical concepts, which may be useful later on for choosing Econometrics.

Course Contents:

Unit 1: Basics of Statistics-I: Applications of Statistics in economics; Population and Sample; Frequency distributions-Discrete and Continuous; Different types of Charts and Graphs; Measures of Central Tendency: Mean, Median, Mode and Weighted Average

Unit 2: Basics of Statistics-II : Significance of measures of dispersion; Various measures of Dispersion: Range, Mean Deviation, Quartile Deviation, Standard Deviation, Coefficient of Variation, Skewness and Kurtosis.

Unit 3: Multivariate Analysis: Simple Correlation analysis; Its application in Economic study,; Regression Analysis, Relationship between Correlation and Regression Analyses, Use of Regression Analysis in Economic Research

Unit 4: Theory of Probability: Elementary Probability Theory; Random Variable, Events, Probability Distribution functions; - discrete and continuous; Various Laws of Probability; Conditional Probability; Binomial and N/mal Distributions

Text and Reference Books:

1. Das M N, 1996, Statistical methods and Concepts, New Age International, Delhi
2. Gupta S P, 2000, Statistical Methods, S. Chand and Co. , Delhi
3. Kaliranjan K P , 1995, Applied Econometrics, Oxford & IBH, Delhi
4. Mehta B C and A C Mehta, Fundamentals of Econometrics, Himalaya Publishing House, Bombay
5. Simpson G and Fritz Kafka, 1980, Basic Statistics, Delhi
6. Srivastav U K et al 1995, Quantitative Techniques for Managerial Decisions, New Age International, Delhi

Syllabus

Course Name : **Economics of Regionalism** No.: **ICT-IV_3.3**

Course Unique Code: 1901250502040303

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	70	-	100

Course Objectives:-

- Post 1990s have witnessed a new global trend in international trade and relations.
- This /der is to stay in coming years.
- Post Graduate students ought to get themselves familiarize with this new economic /der and its implications.
- Besides, others who are practitioners of trade and commerce may benefit from this course.

Course Contents:

Unit - I : Rationale behind Regionalism: Motivation; Multinational Trade Liberalization and RIAs; Regional V/S Global Liberalization; RIAs and Domestic Policy Integration; Impact of RIA Creation; Choice of partners and their impact on Small Economies.

Unit – II : Economics of Custom Unions (Viner), Economics of Scale and Custom Union. Unilateral tariff reduction & Custom Union; The GATT's Article XXIV, Preferential Trading Areas and Multilateralism. Theories of New Regionalism; New Regionalism: Revisited; World-order Approach; Regionalism and World-order: The Changing Global Setting. New Regionalism and Economics Development.

Unit – III : Building Blocs of Broader Regional Cooperation; ASEAN's Role in Asian Economic Integration; ; India and the Asian Economic Integration; The European Case; Systemic Sources of variation in Regional Institutionalization in Europe;

Unit - IV : WTO and RTAs; Rules on Regional Trade Agreements; The EU, ASEAN, MURCUR, NAFTA, SAARC; Asian Economics Community; RTAs and Multilateral Trading System (MTS).

Text and Reference Books:

1. Paul Wonnacott and Ronald Wonnacott (1981) "Is Unilateral Tariff Reduction Preferable to a Customs Union? The Curious Case of the Missing FOREIGN Tariffs' American Economic Review 719(4) Sep. 704-14
2. Richard H. Snape 91993) "History and Economics of GATT'S Article XXIV in My Anderson and Richard Blackhurs (Eds) Regional Integration and Global Trading System, New York: Havesfer Wheatsheaf, 273-91.
3. J. Bhagwati & A. Panagariya (1998) "Preferential Trading Areas and Multilateralism: Strangers, Friends and Foes? In Regionalism in Trade Policy: Essays on Preferential Trading, Singap/e, River Edge, NJ & London.
4. Arvind Panagariya (2000) "Preferential Trade Liberalisation: The Traditional Theory and New Developments" Journal Economic Literature, XXXVIII 2 June, 287-331.
5. Martin Richardson (1993) "Endogenous Protection and Trade Diversion" Journal of International Economics, 34 (3-4) May 309-24.
6. Richard E. Baldwin 91995) "A Domino Theory of Regionalism" in Richard Baldwin, Perth Haaparonta and Jarakko Kiander (eds), Expanding Membership of the European Union, Cambridge: Cambridge University Press 25-48.

7. Arvind Panagariya and Ronald Fividay (1996) "A Political Economy Analysis of Free Trade Areas and Customs Unions" in Robert C Feensba, Gene M. Grossman and Dongla A. Irwin (eds) *The Political Economy of Trade Policy: Papers in Hon/ of Jagdish Bhagwati*. Cambridge, MA:MIT Press (265-87)
8. Philip I. Ledy (1997) "A Political Economics Analysis of Free Trade Agreements" *American Economic Review* 87 (4) Sept. 506-19.
9. Pravin Krishna (1996) "Regionalism and Multilateralism " A Political Economy Approach" *Quarterly Journal of Economics* XIII (I) Feb, 227-51.
10. Wilfred J. Ethier (1958) "Regionalism in a Multilateral W/ld" *Journal of Political Economy* 106 (6) Dec. 1214-45. "The Political Economy of Regionalism", by Edward D Mansfield, Helen V Milner; Columbia University Press, 1997. "Open Regionalism", Working Paper 97-3 by C Fred Bergsten, Peterson Institute, Washington D.C. USA.
11. "Regionalism / Multilateralism" of Gi/gia Albertin: IMF Working Paper, 1March 2008.
12. "Theories of New Regionalism" A Palgrave Macmillan Publication, Nov 2003 Edited by Fredrick Soderbaurne and Timothy M. Shaw.
13. "The Economics of International Integration", by Peter Robson, Published by • Regional Trade Agreement Section, WTO, Geneva, SWISS.
14. WTO Multilateralising Regionalism; Challenges for the Global Trading System, Feb. 2009.
15. WTO Discussion Paper No. 12, the Changing Landscape of Regional Trade Agreement, 2006.
16. Jacob Viner (1950) "The Economics of Customs Unions" in the Custom Union Issue Chapter 4, NY: Carnegie Endowment for International Peace, 41-81.
17. W.M. COREden (1972)"Economies of Scale and Customs Union Theory" *Journal of Political Economy*, 80, January/February/November/December 465-75.

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Economics of Transportation** No.: **ICT –IV_3.4**

Course Unique Code: 1901250502040304

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	70	-	100

Course Objectives:-

- Transp/t is vital sector of a developing economy.
 - Post Graduate students need to learn principles, policy and issues of transp/t economics.
 - FOR a geographically huge economy like ours, this sector offers job opp/tunities.
- This course shall enhance job potential of learners.

Course Contents:

Unit-I : Role of transp/t in Economic Development - environmental and sociological aspects of Transportation - Transp/t and tourism.

Unit-II : The demand for transp/t - The problem -of the peak - Seasonal variation - Factors affecting demand for transp/t - The elasticity of demand - Demand measurement and market research - The supply of transp/t - The economics of market structures Economies of scale - the interaction of supply and demand.

Unit-III : Principles of transp/t pricing -- Pricing and market structure - Cost of service principle - Value of service - Subsidies in transp/t - Problems and justification for subsidies. Investment criteria in transp/t - Cost Benefit Analysis of transp/t projects - Appraisal Methodology - Economic cost - Forecasting traffic - Economic Benefits.

Unit-IV : Performance of transp/t in India - Road, Railways, Air and Water - Urban transp/t Pattern of growth - issues associated with urban transp/t - issues related to private sector participation - Financing legal and regular aspects.

Text and Reference Books:

1. S.K. Srivasthava, The Economics of Transp/t, Sullhan C'hand and Company (Module I)
2. P.C Stubbs, W.J Tyson and M.Q Daivi, Transp/t Economics, Ge/ge Alien and Umvin, Boston, 1986 (Module - II)
3. G.J Bell, D.A Blackledge, P.J Bowen. The Economics and Planning of Transp/t, Henemann, London, 1983 (Module II, III, IV)
4. Kirth Parik, India Development Rep/t, 1997 and 2000 (Tw/ep/ts), Oxford University Press, New Delhi.

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Labour Economics -2**

No.: **ICT-IV_4.1**

Course Unique Code: 1901250502040401

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	70	-	100

Course Objectives:-

- In labour economics we can explain various economics labour problems with the help of labour Theories.
- Form the study of the whole subject student can know the basic Labour Theories Labour problems, specific problems of child and women labour and problems of unorganized labour, Indian trade union, its weakness, globalization and labour sector , etc, This type of study is very helpful to understand Indian labour problems and Indian labour market.
- Considering this approach security, in industrial relations and its problems, globalization and labour problems, labour reforms, etc.

Course Contents:

Unit-1: Industrial Relation: Meaning and definition of Industrial Relation-Importance of Industrial relation- Industrial Disputes- Concept of Industrial Disputes- Classification of Industrial Disputes- Causes of Industrial Disputes- Steps to achieve industrial peace- Methods of settlement of industrial disputes

Unit-2 : Trade Union: Meaning Definition of trade Union - functions of trade union, history of trade Union in India –structure of Trade union- trade union act 1926- Problems of trade unions in India.

Unit-3 : Social Security and Labour welfare in India: Concept of Social Security - Different scheme of social security in India- labour welfare in India- The Unorganized Workers Social Security Act 2008/ Unorganized Workers Social Security Rules, 2009- The Bonded Labour System (Abolition) Act, 1976.

Unit-4 : Child Labour and Women Worker: Meaning and definition of child labour- causes of child labour- Constitutional and legislative provision measures to regulate child labour- women Workers – problems of Working women - protective provisions for women Workers.

Text and Reference Books:

1. Ghose, Ajit, K. (2003), Job and Incomes in globalizing W/ld. II O, Geneva.
2. Uchikawa, Shuji, (2003), Labour Market and Institutions in India, Manohar Publ New Delhi.
3. Seth, K.V. and Suresh Chand, (2004), The Economics of Labour Market. Ame Books New Delhi.
4. Joshi, M.V. (1999), Labour Economics, Darpan Prakashan, Rajkot.
6. Bhatia, S.K. (2005), Constructive Industrial Relations and Labour Laws, B.R. Worldof Books, New Delhi.
6. Datt. Rudra (2005) Economics Reforms, Labour and employment BRW, New Delhi.
7. Kurriakose, Mamkootam (2005) Labour and Change. BBW, New Delhi.
8. Kumar Anil (2005) Labour Welfare and Social Security, BBW, New Delhi.
9. Remon Gomez, (2005) Labour Supply and Incentives of Work in Europe, EE Publishing Limited,

UK

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Econometrics Applications** No.: **ICT-IV_4.2**

Course Unique Code: 1901250502040402

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	70	-	100

Course Objectives:-

- The aim of this course is to provide an overview of the state-of-the-art of econometric tools and techniques applicable empirical modeling in applied Micro- and Macroeconomics.
- The focus is on building, estimating and interpreting output from models using Actual data.
- The course intends to equip students with application skills, necessary to execute independent research projects.

Course Contents:

UNIT-I : Forecasting-I

- Introduction: Nature, Importance and Evaluation of forecast • Short-and Long-Term Forecast • Univariate Methods: Smoothing Methods and Box-Jenkins approach • Multivariate Methods: Regression Models

UNIT-II : Forecasting-II

- Cointegration Analysis: Testing for Unit Roots and Cointegration • Non-parametric Methods: Judgment Methods; Technological Forecasting • Comparison of Forecasts: Combination of Forecasts- Techniques and Benefits

UNIT-III : Macro econometric Model-I

- Introduction to Macroeconomic Modeling • Framework for Modeling • Development and Comparison of Models • Key components of Macro econometric Models • Modeling Consumption, Saving, Finance, Investment , Inflation and Trade

UNIT-IV : Macro econometric Model-II

- Some Macro-econometric Models of Indian Economy

Note: Student would be required to Undertake Econometric Projects[using Secondary data source] on Assigned Topic [from Syllabus] by the Teacher concerned. It would from the part of Internal Assessment.

Text and Reference Books:

1. Aggarwal Ramgopal. 1970, : *An econometric model of India: 1948-61*, London: Farnk Case & Co. Ltd.
2. Fair,Ray, 1984, : *Specification, Estimation and Analysis of Macro econometric Models*, Mass: Harvard University Press.
3. Intriligt/, Michael D. (1978) : *Econometric Models, Techniques, and Applications* New Jersey. Prentice-Hall.
4. Kristan K.L. (1999) : *Econometric Application in India*, New Delhi: Oxford University Press.
5. Krishnamurthy K and V.N.Pandit, : *Macroeconometric Modelling of Indian (1985) Economy*, Delhi, Hindustan Publishing Co.
6. Pandit V. (2000) : *Macroeconomic Policy Modelling for India: A review of some Analytical Issues*, Working paper no74, Centre for Developing Economics, Delhi, Delhi School of Economics.
7. Pindyck,R.S.and D.L.Rubinfeld. 1998 : *Econometric Models and Economic FOREcasts* 4Th Edition, New York, McGraw Hill.
8. Whitley, J. D., 1994. : *A Course of Maccroeconomic Modelling and Forcasting*, Hertfordshire: Havester Wheatshear(Chapter-(i) ECM-(iv) EPF).

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

Subject: Economics

Course Name : **Law and Economics** No.: **ICT-IV_4.3**

Course Unique Code: 1901250502040403

Semester End Exam Time Duration: Regular 2:15 hrs . External 3.00 hrs.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	70	-	100

Course Objectives:-

- In present time Law has become an integral part of economic and commercial activity.
- Firm, Contract, Family, Government, International Trade/agreements etc are important aspects in study of economics which are related to law.
- Hence this course shall prepare students to understand intricacies of law in general and its economic aspects in particular.

Course Contents:

UNIT – I : Introduction of Law and Economics :

- I. Economic Analysis of Law- An Introduction :
 - (a) Why do economists need to be concerned about law?
 - (b) Relationship between law and Economics.
- II. Economic Concepts and their relevance to Law.
- III . Legal Concepts :
 - (a) The Common Law and the Civil Law Traditions
 - (b) Introduction to Judicial System in India
 - (c) Economic Approach to Legal Rules
 - (d) Methodological Aspects of Legal Rules
 - (e) Efficiency, Justices and the Inherent Rationality of Private Law
 - (f) Development of Efficient Rules: Selected Cases.

UNIT -II : Economics of Property Laws:

- I. Introduction
- II. An Economic Theory of Property
- III. Economics of Property Law:
 - (a) Market strategies
 - (b) Non-market stratifies
- IV Allocation of Property Right: First come first served; Good faith purchase; Title to land; Establishment of entitlements : (i) Property Rule, (ii) Liability Rule, (iii) Inalienability Rule
- V. Property Rights (a) Property, Social Discrimination and law: Need for Affirmative Action/ Protective Discrimination (b) Inequalities and Distributive Justice
- VI. Intellectual Property Rights : Copy Rights, Patent rights, Trademark, Geographical Indicators

UNIT-III : Economic Analysis of Contract and T/t Laws

(A) Contract Law :

- I. Introduction ;
- II. Economic Theory of Contract : (a) Perfect Contracts and (b) Imperfect Contracts.
- III Economics of Contract Law :
 - (A) Unconscionable: (i) Distress (ii) Transactional Incapacity (iii) Unfair persuasion (iv) Price Ignorance
 - (B) Fraud.
 - (C) Monopoly: Sales (Standard Form) of Contracts and Warranties.

IV Economics of Remedies for Breach of Contract.

(B) T/t Law :

- I. Introduction
- II. Economic Theory of T/ts Law
 - A. Accident Costs and their Minimization
 - B. Liability Rules (i) Negligence (ii) Contributory Negligence (iii) Negligence (iv) Strict liability
- III. Economic of T/t liability
 - A. Liability v Regulation
 - B. Causation in Torts
 - C. Joint and multiple liabilities

D. Product Liability: Products' Responsibility E Immaterial Damages: Pain and Suffering

UNIT-IV : Economics of Criminal and Public laws

(A) Criminal Law and Economics

- I Introduction
- II Principal Types of Crime
- III Optimal Criminal Sanctions: Economics of Crime and Punishment
- IV Criminal Intent
- V The Defense of Necessity
- VI The Economics of organized Crime

(B) Public law and Economics

- I Introduction
- II Maximisation of Social Welfare (Firms and Consumers): Legislative and Executive Participation and Discretion
- III Economic Analysis of Judicial Review
- IV General Applications to Indian Institutions

Text and Reference Books:

1. Coater, R & Ulen, Thomas : *Law and Economics*, Addison- Wesley, Massachusetts, 3rd ed., 2000.
2. Mueller, D C : *Public Choice II*, Cambridge University Press, Cambridge, 1989.
3. Posner, R A : *The Economic Analysis of Law*, Little, Brown and Company, Boston, 1972.
4. Roger Van den Berg: *Economic Analysis of Competition Law: An Introduction*, Michael Howlin, 1995 (Revised edition translated by Michael Howlin M A, Barrister).
5. Arrow, K J : *Social Choice and Individual Value*, Yale University Press, New Haven, 1963.
6. Asha, A B & Tara, K : *Principles of Population Studies*, Himalaya Publishing House, Mumbai, 2001, 14th edition.
7. Basu, D D : *Introduction to the Constitution of India*, Wadhwa and Company Law Publishers, Nagpur, 2001 (reprint).
8. Bouckaert, B & De Geest, G : *Encyclopedia of Law and Economics*. Burrows,
9. Paul & Veljanovski, G C : *The Economic Approach to Law*, London, Butterworths, 1981.
10. Calabresi, G : *The Costs of Accidents*, Yale University Press, 1970.
11. Conish, W R: *Intellectual Property: Patents, Copyrights, Trade Marks and Allied Rights*, Universal Law Publishing Co. Pvt. Ltd., Delhi, 1972, 2nd ed.
12. Divan S & Rosencronz, A : *Environmental Law and Policy in India*, Oxford University Press, New Delhi, 2001, 2nd ed.
13. Kempf, K L: *Measurement Issues in Criminology*, Springer-Verlag, New York, 1990.
14. Laffont, J J & Tirole, J: *A Theory of Incentives in Procurement and Regulation*, Cambridge/Mass., 1993.
15. Munzer, S R : *A Theory of Property*, Cambridge University Press, 1990.
16. Murali Prasad Panta : *Business, Consumer and Government: Economic and legal Perspectives (India and Germany)*, Mittal Publications, New Delhi, 2001.
17. Newman, P : *Palgrave Dictionary of Economics and the Law*. Shavell, Steven : *Economic Analysis of Accident Law*, Massachusetts, Harvard University Press, 1987.
18. Schmidh, P : *An Economic Analysis of Crime and Justice*, Academic Press, London, 1984.
19. Tietenberg, T : *Environmental Economic Policy*, Addison Wesley, Boston, 2001, 3rd ed.
20. Watal, J: *Intellectual Property Rights in WTO and Developing Countries*, Oxford University Press, New Delhi, 2001.
21. Williamson, O E : *The Economic Institutions of Capitalism: Firms, Markets, Relational Contracting*, The Free Press, New York, 1985.
22. Alessi de Louis & Staaaf, R.J. : "Subjective Value in contract Law", *Journal of*
23. *International and Theoretical Economics*, Vol. 145, 1989, pp. 561-577.

SAURASHTRA UNIVERSITY, FACULTY OF ARTS

Syllabus

(To be Offered by Regular Students only at PG Dept/PG Centre having Computer lab facility)

Subject: Economics

Course Name: **Computer Applications in Economic Analysis -2 No.: ICT-IV_4.4**

Course Unique Code: 1901250502040404

Semester End Exam Time Duration: **(1) Theory -40 marks-90 minutes ;
(2) Practical -30 marks-60**

minutes. Structure of Question Paper for Sem End Exam

- 40 marks Theory and 30 Marks for Practical
- Theory must have descriptive, Short and MCQ type of questions.
- Three practical to be set for Semester End Practical Exam each of 10 marks.

Name of Program	Semester	Course Group	Credit	Internal Marks	External Marks	Practical / Viva Marks	Total Marks
		Foundation / Core/ Elective/ Inter Disciplinary/ Practical / Project					
M.A.	IV	Inter Disciplinary	4	30	40	30	100

Course Objectives:-

- The direction towards the knowledge society shall be resting on a healthy economics and proper use of Information Technology.
- Economics being an empirical science, computers have emerged as the pivotal instruments of economic analysis, research and Forecasting.
- SPSS based computer applications are getting popular besides the MS Office Excel program for handling and analysis of data.
- Therefore, the future economists must be equipped with skills and tools based on computers, which this course shall provide to them.
- This will not only enhance their employability but also prepare them for the challenges of the future.

Course Contents:

Unit-1: Data Handling-Reading (Opening) data set, Defining attributes of variable, creating a smaller dataset by Aggregating Over a Variable, S/ting. Reading SPSS data- from spread sheet, from simple data base format, from other statistical programmes like SAS, STATA etc. **Variables**- variable type, missing values, column format, variable label, value label for Dummy and Categorical variables. **Creating New Variables**- creating dummy, categorical and semi-continuous variables.

Unit-2: Univariate Analysis – Graphs & Charts : simple Bar graphs, Line graphs, graphs of cumulative frequency, Area graphs, and Pie Charts. **Frequencies**- Distribution of variables, Histograms and frequencies statistics. Checking nature of distribution of continuous variables and transforming a variable for N/mal Distribution. Testing distribution of a variable. Discriptives and Boxplots. ANOVA.

Unit-3: Tables – for statistical attributes, tables of frequency distribution. **Formatting Tables and Charts** - Accessing window for formatting and editing tables-changing width of column, deleting column, transporting, finding appropriate width and height, deleting specific cells, editing data in specific cell, inserting footnotes, formatting footnotes, changing the font of specific components (data, Raw Headers etc.), Changing borders and Gridlines. Accessing window for formatting / editing charts, making mixed Bar/Line/Area charts, converting into a Pie chart, colour of Bars, Lines, Area etc., changing format of the Text in Labels, Titles / Legends.

Unit-4: Bivariate Analysis – Simple scatter. Bivariate Correlation . Simple Linear Regression. Interpretation of Regression Results, t-test, F-test. Problems caused by breaking down of classical assumptions- Multicollinearity, Heteroscedasticity etc .

Text and Reference Books:

1. Gupta Vijay, 1999, SPSS for Beginners, V J Books Inc.
2. Levine M David and David F Stephan, 2005, *Even You Can Learn Statistics*, Pearson Prentice Hall, New York.
3. Rajaraman, V. (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi
4. Richard J. Larsen and Morris L. Marx, *An Introduction to Mathematical Statistics and its Applications*, Prentice Hall, 2011.
5. D. N. Gujarati and D.C. Porter, *Essentials of Econometrics*, McGraw Hill, 4th edition, International Edition, 2009.
6. Christopher Dougherty, *Introduction to Econometrics*, Oxford University Press, 3rd edition, Indian Edition, 2007.
7. Jan Kmenta, *Elements of Econometrics*, Indian Reprint, Khosla Publishing House, 2nd edition, 2008.
8. Jeffrey M. Wooldridge, *Econometrics*, Cengage Learning, India Edition, 2009.
9. Dimitrios Asteriou and Stephen Hall, *Applied Econometrics: A Modern Approach*, Palgrave Macmillan, 2007.
10. Damodar Gujarati, *Econometrics by Example*, Palgrave Macmillan, 2011.

Structure of Semester End Examination

M.A. Economics (Regular & External)

Structure & Instructions for the setting of Semester End Examination

Question Paper:

1. Question Paper shall be set in **two Sections** i.e. Section – I (70 marks) and Section – II (30 marks):
2. **Instructions to be Printed** in the beginning of Question Paper:
 - (i) . **Regular Students** shall write answers of Questions in **Section-I** only
 - (II). **External Students** shall write answers of Questions in **Section-I & II, both.**
3. Structure of Paper
 - a. **For Section – I (70 marks)**
 - Question : 1 or 1 : Essay Type : 20 marks**
 - Question : 2 or 2 : Essay Type : 20 marks**
 - Question : 3 -Two to be attempted from Four : Short answer type : 20 marks**
 - Question: 4 – Single line answer type 10 questions : 10 marks**
 - b. **For Section – II (30 marks)**
 - Question : 5 or 5 : Essay Type : 15 marks**
 - Question : 6 or 6 : Essay Type : 15 marks**
4. Paper Setter should give due **weightage** to **entire syllabus** while setting paper in **each section.**