

SHIVAJI UNIVERSITY, KOLHAPUR

Department of Economics-Autonomous



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Accredited By NAAC

Syllabus For

M.A. Economics

Faculty of Humanities

M.A. Second Year Semester III and IV

As per National Education Policy-2022

(Subject to the modifications to be made from time to time)

To be introduced from July 2023.

Structure of Level 9 of M. A. Part II Economics Semester-III

(Introduced from June 2023 as per NEP Structure introduced from June 2022)

Structure of Level 9 of M. A. Part II Economics											
Semester-III											
Teaching Scheme						Examination Scheme					
Sr. No.	Theory (TH)				Practical (PR)	Semester-end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No of Lectures	Hours	Credits		Paper Hours	Max	Min	Internal	Max	Min
1	DSC-5	4	4	4		3	70	28		30	12
2	DSC-6	4	4	4		3	70	28		30	12
3	DSE-5	4	4	4		3	70	28		30	12
4	DSE-6	4	4	4		3	70	28		30	12
5	SEC-III	2	2	2		2	50	20		-	-
Total		18	18	18			330	132		120	48
										SEE+IA=330+120=450	

Semester-IV											
Teaching Scheme						Examination Scheme					
Sr. No.	Theory (TH)				Practical (PR)	Semester-end Examination (SEE)			Internal Assessment (IA)		
	Course Type	No of Lectures	Hours	Credits		Paper Hours	Max	Min	Internal	max	Min
1	DSC-7	4	4	4		3	70	28		30	12
2	DSC-8	4	4	4		3	70	28		30	12
3	DSE-7	4	4	4		3	70	28		30	12
4	DSE-8	4	4	4		3	70	28		30	12
5	SEC-IV	2	2	2		2	50	20		-	-
Total		18	18	18			330	132		120	48
										SEE+IA=330+120=450	
Semester III and IV		36	36	36	-	-	660	264	240		
										SEE+IA=660+240=900	
Grand Total Semester I, II, III and IV		72	72	80	-	-	1500	500	510		
										SEE+IA=1490+510=2000	

Total Credits Required for Completing Level 9: 36 Credits

DSC: Discipline Core Course- There will be two compulsory courses for each semester.

DSE: Discipline Specific Elective- Student can opt any two courses (Subjects) from the group of Elective courses.

SEC: Skill Enhancement Course, Students have to complete one SEC each in both semesters selecting from the platform suggested in NEP Regulations of Shivaji University, Kolhapur or from the Basket of SEC made available by Shivaji University, Kolhapur

12. SCHEME OF TEACHING:

Teaching Scheme for Semester-III					
Sr. No.	Theory (TH)				
	Course Type	Course title	No of Lectures	Hours	Credits
1	#DSC-5	Statistics in Economic Analysis	4	4	4
2	#DSC-6	Macro-Economic Analysis	4	4	4
3	#DSE-5 #DSE-6	Elective Courses 21. Economics of Labour 22. Indian Public Finance 23. Economics of Transport and Communications 24. Indian Economic Policy	4	4	4
4		25. Demography 26. Urban Economics 27. Economics of Energy 28. Computer Application in Economics I *&** 29. Mathematical Economics II 30. Econometrics I 31. Social Sector and Environment	4	4	4
5			-	-	-
6	SEC-I		2	2	2
Total			18	18	22

DSC –5 and DSC-6 are compulsory.

##For DSE-5 and DSE-6 students have to opt any two from the list of DSE-21 to DSE-31 Elective Papers.

*: Each Batch of 10 students will have 4 Practical hours per week (2 Batch x 4 Hrs. = 8)

** : CIE 50 Marks (30 Marks for Practical Examination and 20 Marks for Journal)

Teaching Scheme for Semester-IV					
Sr. No.	Theory (TH)				
	Course Type	Course title	No of Lectures	Hours	Credits
1	#DSC-7	International Economics	4	4	4
2	#DSC-8	Economics of Growth and Development	4	4	4
3	##DSE-7	Elective Courses	4	4	4
		32. Co-operative Thoughts and Administration 33. Statistics for Economics 34. Global Business Logistics 35. Economics of Infrastructure			
4	##DSE-8	36. Advanced Banking	4	4	4
		37. Welfare Economics			
		38. Research Methodology			
		39. Economic Thoughts of Chh. Shahu Maharaj			
		40. Computer Application in Economics II*&**			
		41. Economics and Law 42. Econometrics II			
Total			18	18	22

DSC- 7 and DSC – 8 are compulsory.

For DSE-3 and DSE-4 students have to opt any two from the list of DSE-32 to DSE-42 Elective Papers.

*: Each Batch of 10 students will have 4 Practical hours per week (2 Batch x 4 Hrs. = 8)

** : CIE 50 Marks (30 Marks for Practical Examination and 20 Marks for Journal)

Table-1: P.G. M.A. Programme/Course Structure (80 Credits)

SEMESTER	DSC	DSE/OEC /GEC/IDS	AECC/Languages	Skill Enhancement Courses (SEC) Multidisciplinary	Total
I	2x4= 8	2x4= 8	Internship/ Apprenticeship (4)	SEC-I (2)	22
II	2x4= 8	2x4= 8 1x4= 4 Research		SEC-II (2)	22
III	2x4= 8	2x4= 8		SEC-III (2)	18
IV	2x4= 8	2x4= 8		SEC-IV (2)	18
Total					80

DSC: Discipline Core Course

DSE: Discipline Specific Elective (Elective Courses Offered under the main discipline/Subject of Study are referred to as Discipline Specific Elective Course).

AECC: Ability Enhancement Compulsory Courses

SEC: Skill Enhancement Compulsory Courses SEC courses are value based and/or skill based and are aimed at providing hands on training, competencies, skills, etc. these courses may be chosen from a pool of courses design to provide value- based and/or skill-based knowledge.

13. QUESTION PAPER PATTERN FOR SEMESTER-END EXAMINATION AND INTERNAL ASSESMENT.

M. A. Economics Semester I, II, III and IV		
Subject Code & Paper Title:		
Day and Date:		Total Marks: 70
Time: 3 Hours		
Instructions: 1. All question are compulsory. 2. Figures to right indicated Full Marks. 3. Use of Calculator is Permitted.		
Q. No.	Type of Question	Marks
1	Objective Type Questions (Each Question carry two marks) A. Objective Type questions. B. Answer in one or two sentences	20 10 10
2	Write short notes (Any three out of five Questions)	15
3	Answer in brief (Any Two out of Three Questions)	20
4	Descriptive type question (Internal Choice)	15

**Question Paper Pattern for Semester-End Examination
Computer Application in Economics**

M. A. Economics Semester I, II, III and IV		
Subject Code & Paper Title:		
Day and Date:		Total Marks: 50
Time: 2 Hours		
Instructions: 1. All question are compulsory. 2. Figures to right indicated Full Marks. 3. Use of Calculator is Permitted.		
Q. No.	Type of Question	Marks
1	Objective Type Questions A. Objective Type questions. (Each Question carry one mark) B. Answer in one or two sentences (Each Question carry one mark)	10 5 5
2	Write short notes (Any two out of four Questions)	10
3	Answer in Brief (Internal Choice)	10
4	Answer any two from three (Numerical Problems)	20

An Internal Assessment

Sr. No.	Semester	Type of internal Assessment	
		For 20 Marks	For 10 Marks
1	I	Unit test	Home Assignment
2	II	Unit Test	Seminar presentation
3	III	Unit Test	Seminar Presentation
4	IV	Unit Test	Review of Article/Academic Writing

SHIVAJIUNIVERSITY, KOLHAPUR
DEPARTMENT OF ECONOMICS-AUTONOMOUS
M.A. Economics Part-II Semester-III

Course Type	Course title
DSC-5	Statistics in Economic Analysis
DSC-6	Macro-Economic Analysis
DSE-21	Economics of Labour
DSE-22	Indian Public Finance
DSE-23	Economics of Transport and Communications
DSE-24	Indian Economic Policy
DSE-25	Demography
DSE-26	Urban Economics
DSE-27	Economics of Energy
DSE-28	Computer Application in Economics I
DSE-29	Mathematical Economics II
DSE-30	Econometrics I
DSE-31	Social Sector and Environment

DSC 5- STATISTICS IN ECONOMIC ANALYSIS

PREAMBLE:

The main objective of this paper is to train the students to use the techniques of statistical analysis, which are commonly applied to understand and analyze economic problems. The emphasis of this paper is on understanding economics with the help of quantitative techniques. Hence, in this paper a student will be initiated into various economic concepts, which are amenable to mathematical treatment.

Unit 1: Descriptive Analysis

(15 Periods)

Central Tendency: Meaning, Concept, Objectives of Averaging, Requisites of a Good Average

1.2. Measures of Central Tendency: Mean, Median, Mode, Harmonic Mean, Geometric Mean

1.3 Dispersion: Meaning, Concept, Objectives of Measuring Dispersion, Properties of a Good Measure of Dispersion

1.4. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation and its relative measures

Unit 2: Skewness, Moments and Kurtosis

(15 Periods)

2.1. Skewness: Meaning, Concept, Test of Skewness

2.2. Measures of Skewness: Absolute Measures and Relative Measures-Karl- Pearson's Coefficient of Skewness, Bowley's Coefficient of Skewness, Kelly's Coefficient of Skewness.

2.3. Moments: Meaning, Concept, Objectives, Moments about the Mean, Moments about the arbitrary origin

2.4. Kurtosis: Meaning, Concept, Measures of Kurtosis

Unit 3: Correlation Analysis

(15 Periods)

3.1. Correlation: Meaning, Concept and Importance

3.2. Types of Correlation: Positive and Negative Correlation- Simple, Partial and Multiple Correlation- Linear and Non-linear Correlation

3.3. Methods of studying correlation: Scatter Diagram Method, Graphical Method, Karl Pearson's coefficient of correlation, Spearman's rank coefficient of correlation and Concurrent Deviation Method

3.4. Probable Error of the Coefficient of Correlation and its Interpretation- Coefficient of Determination

Unit 4: Regression Analysis (15 Periods)

4.1. Regression: Meaning, Concept and Importance – Comparison of Correlation and Regression

4.2. Methods of estimating regression: Graphic Study of Regression, Freehand Curve Method, Method of Least Squares

4.3. Regression Equations: Properties of Regression Coefficients-Properties of Regression Lines

4.4. Standard Error of estimate.

READING LIST:

1. Allen, R. G. D. (1974), *Mathematical Analysis for Economists*, Macmillan Press and ELBS, London.
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3. Chiang, A. C. (1986), *Fundamental Methods of Mathematical Economics*, McGraw Hill, New York.
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10. Hogg, R. V. and A. T. Craig (1970), *Introduction to Mathematical Statistics (3rd Edition)*, Macmillan Publishing Co., New York.
11. Millar, J. (1996), *Statistics for Advanced Level*, Cambridge University Press, Cambridge.
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13. Nagar, A. L. and R. K. Das (1993), *Basic Statistics*, Oxford University Press, New Delhi.
14. Reddy, C. R. (1990) : *Quantitative Methods for Management Decision*, Himalaya Publishing House, Mumbai.
15. Singhal Mohan (2005:06) : *Elements of Statistics*, Lakshmi Narain Agrawal, Agra.
16. Speigal, M. R. (1992), *Theory and Problems of Statistics*, McGraw Hill Book Co., London.
17. Sukhatme, P. V. and B. V. Sukhatme (1970), *Sampling Theory of Survey with Applications*, Iowa State University Press, Ames.
18. Taha, H. A., (1997), *Operations Research: An Introduction (6th Edition)*, Prentice Hall of India Pvt. Ltd., New Delhi.
19. Yamane, Taro (1975), *Mathematics for Economists*, Prentice Hall of India, New Delhi.

DSC- 6: MACRO ECONOMIC ANALYSIS

PREAMBLE:

Macroeconomics or aggregative economics analyses establishes the functional relationship between the large aggregates. The aggregate analysis has assumed such a great significance in recent times that a prior understanding of macroeconomic theoretical structure is considered essential for the proper comprehension of the different issues and policies. Macroeconomics now is not only a scientific method of analysis; but also a body of empirical economic knowledge. The paper entitled "Macro Economic Analysis" equips the students at the postgraduate level to understand systemic facts and latest theoretical developments for empirical analysis.

Unit 1: National Income and Accounts

(15 Periods)

- 1.1. National Income: Meaning and Associated Concepts
- 1.2. Circular Flow of Income in –two, three and four sector economy;
- 1.3 Different forms of national income accounting– social accounting, input-output accounting,
- 1.4. Flow of funds accounting and balance of payments accounting.

Unit 2: Keynesian synthesis, New Classical and New Keynesian Macroeconomics

(15 Periods)

- 2.1. Keynesian views on interest; The IS-LM model;
- 2.2. Extension of IS-LM model with government sector- Extension of IS-LM models with Labor market and flexible prices. Relative effectiveness of monetary and fiscal policies
- 2.3. The new classical critique of micro foundation -The Concept of Rational Expectations -Basic approach and policy implications
- 2.4. New Keynesian Economics - Sticky Nominal prices (Mankiw Model); Supply Side Economics

Unit 3: Supply of money and Post-Keynesian approaches to Demand for Money (15 Periods)

- 3.1. Money supply-Measures, Determinants and Control
- 3.2. Money Supply and the Open Economy
- 3.3. Approaches to Demand for Money: Tobin, Baumol and Patinkin
- 3.4. Friedman and the modern quantity theory

Unit 4: Theory of Inflation and Business Cycles

(15 Periods)

- 4.1. Classical, Keynesian and Monetarist approaches to inflation-Structuralist theory of inflation-Policies to control inflation
- 4.2. Philips curve analysis – Short run and long run Phillips curve
- 4.3. Samuelson and Solow – the natural rate of unemployment hypothesis; Tobin's modified Philips curve
- 4.4. Theories of Business Cycles: Samuelson, Hicks and Goodwin model- Control of business cycles

READING LIST

1. Ackley, G. (1978), *Macroeconomics: Theory and Policy*, Macmillan, New York.
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10. Gordon, R. and S. G. Harris (1998), *Macroeconomics*, Addison Wesley.
11. Gordon, R. and S. G. Harris (1998), *Macroeconomics*, Addison Wesley, Massachusetts.
12. Hall, R. E. and J. B. Taylor (1986), *Macroeconomics*, W. W. Norton, New York.
13. Heijdra, B. J. and V. Frederick (2001), *Foundations of Modern Macroeconomics*, OxfordUniversity Press, New Delhi.
14. Hicks, J. R. (1950), *A contribution to the Theory of Trade Cycles*, Clarendon Press, Oxford.
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16. Jha, R. (1999), *Contemporary Macroeconomic Theory and Policy*, New Age International (P) Ltd., New Delhi.
17. Keynes, J. M. (1936), *The General Theory of Employment, Interest and Money*, Macmillan, London.
18. Levacic, R. and A. Rebman (1986), *Macroeconomics: An Introduction to Keynesian and Neo-classical Controversies*, Macmillan, London.
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22. Mueller, M. G. (1966), *Readings in Macroeconomics*, Holt Rinehart and Winston, New York.
23. Patinkin, D. (1965), *Money, Interest and Prices*, Harper and Row, New York.
24. Powelson, J. P. (1960), *National Income And Flow of Funds Analysis*, McGraw Hill, New York.
25. Rakshit, M. (1998), *Studies in the Macroeconomics of Developing Countries*, Oxford University Press, New Delhi.
26. Rao, V. K. R. V. (1983), *India's National Income: 1950 to 1980*, Sage Publications, New Delhi.
27. Romer, D. L. (1996), *Advanced Macroeconomics*, McGraw Hill Company Ltd., New York.
28. Ruggles, R. and N. Ruggles (1956), *National Income Accounts and Income Analysis*, McGraw Hill, New York.
29. Scarfe, B. L. (1977), *Cycles, Growth and Inflation*, McGraw Hill, New York.
30. Shapiro, E. (1996), *Macroeconomic Analysis*, Galgotia Publications, New Delhi.
31. Sheffrin, S. M. (1996), *Rational Expectations*, CambridgeUniversity Press, Cambridge.
32. Taylor, L. (1983), *Structuralist Macroeconomics*, Basic Books, New Longman.
33. United Nations (1974), *Year Book of National Account Statistics*.

DSE-21 ECONOMICS OF LABOUR

PREAMBLE:

Labour market issues are important for students of Micro, Macro, and Labour Economics. The course sheds light on a range of issues related to the economic theory, new developments and a host of issues studied by generations of labour market experts. It attempts to capture the interplay of various factors in the labour market by describing demand – supply aspects, Micro and Macro Approaches in Labour Markets, Discrimination and unemployment, labour Contracts, Regulation and International labour standards, workers' participation and impact of new labour policies in the labour market of India and the World.

Unit 1: Labour market and Macro-economic (15 Periods)

- 1.1. Labour market: Concept- Characteristics- Types
- 1.2. The theory of Human Capital: Investment in Human Capital- Costs and lifetime benefits of education.
- 1.3 Classical Analysis – Neo classical Analysis – Keynesian Analysis- Dual and segmented labour Market Theory – Marxian Alternative
- 1.4. Flexibility and Institutions in labour Market.

Unit 2: Micro and Macro Approaches in Labour Markets (15 Periods)

- 2.1. The theory of labour demand- time period and types of markets- industry demand for labour- Determinants of labour demand
- 2.2. The theory of supply- Work-leisure choice in indifference curves- Budget constraints- Utility maximization- Backward-bending labour supply curve and its applications.
- 2.3. The inflation unemployment trade-off - Nominal Rigidities.
- 2.4. Regulation of Labour – Experience of India vis-a-vis Other Countries – International Trade and Labour Markets.

Unit 3: Discrimination, Unemployment and Labour Contracts (15 Periods)

- 3.1. Economic Effects of Prejudice: Theoretical Analysis – Wage Differentials by Race and Sex.
- 3.2. Concept and Measurement of unemployment– Job Search –Unemployment insurance.
- 3.3. Employment Determination – Allocation of Risk- Compensation – Bonding
- 3.4. Incentive Pay- Multitasking – Team Production – Relational Contracts – Career Concerns – Wages and Promotions.

Unit 4: State and Labour (15 Periods)

- 4.1. State and social security of labour: Concept of social security- social assistance and social insurance- Review of state policies with respect to social security and labour welfare in India.
- 4.2. Problems of labour; recent labour legislations and labour market reforms in India- Labour retrenchments.
- 4.3. Receding state and its effect on working of labour markets- International labour standards.
- 4.4. Exit policy- need for safety nets- measures imparting flexibility in labour market- Second National Commission on Labour

READING LIST

1. Ashenfelter, O, and G.E. Johnson (1969), 'Bargaining Theory, Trade Unions, and Industrial Strike Activity', *American Economic Review*, 59 (1), 35-49.
2. Booth, A.L. (1995), *The economics of the trade union* Cambridge University Press, Chapters 3,4,5,7, and 8.
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7. D.C. – Standing G. and V. Tokman(Eds.) (1991), *Towards Social Adjustment*, ILO, Geneva.
8. Datt R.(2000), "Regional Patterns of Industrial Relations in India: Changing Scenario after Liberalization", *Indian Journal of Labour Economics*, 43(4), 1061-1098.
9. Deshpande, S.G. Standing, and L.K. Deshpande, (1998), *Labour Flexibility in a Third World Metropolis*, Commonwealth Publishers', New Delhi. –
10. Dowrick, S. (1989), *Union-Oligopoly Bargaining*, *Economic Journal*, 99:1123-1142.
11. E Malinvaud, 1977 *The Theory of Unemployment Reconsidered*, Basil Blackwell, Oxford.
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23. Misra. L.(2000), *Child Labour in India*, Oxford University Press, New Delhi,- Riveros, L.(1999), *Labour Market Policies and Labour Market Reforms in Socialist Economics*, World Bank, Washington
24. Mukhopadhyay, S, 1983, *Unemployment, Job Search and the Optimal Waiting Time*', *Indian Journal of Labour Economics*, 25(3): 198-217.
25. Oswald, A.J. (1982). *Trade Unions, wages and unemployment: What can simple models tell us?* *Oxford Economic Papers*, 34(3) : 526(45).
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DSC 22- INDIAN PUBLIC FINANCE

PREAMBLE:

There is great socio-economic significance of public finance, both in developed and developing countries. This paper analyse important issues in Indian public finance in the context of the India's economic development. It deals with the effectiveness of public finance in India. The objective of this paper is to provide a detailed treatment of issues in Indian public finance to those intending to specialise in this area. Student should know the public revenue, public expenditure, debt, budgets and federal finance system in India. This paper also intends to familiarize students to analyse the issues related with tax system, expenditure programmes and debt issues, deficit financing, federal finance and stabilization instruments

Unit 1: Public Revenue (15 Periods)

- 1.1. Sources of revenue and Indian Tax system.
- 1.2. Trends in revenue: Direct and indirect taxes in India in last decade
- 1.3 Brief review of tax reforms pre 1991 and detailed in post 1991 period.
- 1.4. Changing incidence of income tax, Goods and Services Tax, taxation on agriculture.

Unit 2: Public expenditure and public debt (15 Periods)

- 2.1. Trends in public expenditure of central and state governments in last decade
- 2.2. Role of public expenditure in economic development.
- 2.3. Trends in public debt in last decade - internal and external
- 2.4. Public debt management in India.

Unit 3: Deficit financing, local finance and fiscal policy (15 Periods)

- 3.1. Deficit financing: concepts and measures in India and trends in last decade.
- 3.2. Analysis of central and state governments in last three budgets
- 3.3. Sources of local finance- financial dependency- measures for improvement of local finance
- 3.4. Fiscal crisis and fiscal reforms in India, Fiscal Responsibility and Budget Management

Unit 4: Federal finance (15 Periods)

- 4.1. Constitutional provisions- role of finance commission in federal set-up- Gadgil formula
- 4.2. 10th, 11th, 12th and 13th reports of Finance Commissions in India
- 4.3. 14th Finance Commission: terms of reference, issues and approach, recommendations;
- 4.4. Problem of fiscal imbalances, vertical and horizontal

READING LIST:

1. Academic Foundation (2003): "Reports on India's Tax Reforms," Academic Foundation, New Delhi.
2. Amaresh Bagachi and Nicholas Stern (1994): "Tax Policy and Planning in Developing Countries," Oxford University Press, New Delhi.
3. Annual Economic Survey: published by Ministry of Finance, Government of India
4. Bird R. M. and O. Oldman (1967): "Readings on Taxation in Developing Countries." edited, Cambridge, Mass: Harvard Law School, International Tax Program.
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6. Datta and Sundharam (2018): "Indian Economy" S. Chand & Company, New Delhi

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DSE -23 ECONOMICS OF TRANSPORT AND COMMUNICATION

PREAMBLE:

Transport and communication is known as the backbone of modern industrial infrastructure. The efficiency, spread and its access to productive agents of such facilities determines the competitiveness of the industrial sector. The transport modes like road, water, air and rail and their development have played an immense role in the economic development. Every mode of transport has its merits and limits which calls for coordinate development of these modes in future. The role of communication in economic development is also equally important. The modern communication means like internet, telephone and TV are now converging into one mega and multifaceted tool which may have long term impact. The role of private players is also increasing and so the regulatory role of the government. The present paper gives exposures to the issues and options in the field of transport and communication.

Unit 1: Introduction of Transport and Road Transport (15 Periods)

- 1.1. Meaning of transport – Classification of transportation – Significance of transport – Transport and Economic Development
- 1.2. Road Transport: Nature and significance –Types of Road- Operational framework of passenger Road transport system in India: State Road Transport Corporations–Departmental undertakings-Municipal undertakings- Government Companies
- 1.3 Road development in India – National Urban Renewal Mission – National Highways- Interstate importance- Road development in sensitive boarder areas and tribal roads
- 1.3.City transport in India: Means of Transport-Mass Transport System- Problems of City Transport

Unit 2: Indian Railway (15 Periods)

- 2.1. Nature and scope of Railway transport–Laws of Returns and Railway transport.
- 2.2. Indian Railways: Growth of Railway during Pre and Post-Independence period- Railway Electrification
- 2.3. Mobility of Indian Railway to Passengers: Types of Travel- Convenience and Comfort-Railway Tourism
- 2.4. Rail Transport Policy: Prizing of Railway Transport Services(Passengers and Goods)–classification of goods- Metro, Mono and Bullet Train

Unit 3: Water Transport and Air Transport (15 Periods)

- 3.1. Water Transport: Scope and significance – Growth of water transport in India – Inland and ocean transport- Modes of transportation and their advantages and disadvantages - Problems of water transport
- 3.2. Indian shipping – Ports and harbors – Different types and size of ships (Foreign going, Coastal, inland vessels etc.) – Concept of Multimodal Transport –Risk and liabilities of Multimodal Carrier
- 3.3. Air Transport: Nature and Significance –Growth of Air Transportation in India - Civil Aviation in India: Establishment-administrative structure-types of airline operations- Airport functions-Chicago convention on international aviation
- 3.4. Nationalization and privatization of air transport. – Problems of Air Transport- Recent Developments in Air Transport in India

Unit 4: Economics of Communication (15 Periods)

4.1. Communication–Classification, Significance and Growth in India

4.2. Media – Print, Electronic and Social media- Technological development in media-Role of media in economic development

4.3. Tele conferencing – Prasar Bharati –Public (BSNL and MTNL) and Private Service Providers

4.4. Advertisements in communication – Communication policy of India

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DSE 24 - INDIAN ECONOMIC POLICY

PREAMBLE:

This paper aims to acquaint the students of economics with the important economic policies framed and implemented in India and having significant bearing on the economic development of the country. The thorough understanding of Indian economic policies is a must for post graduate students of economics and that is what this paper aims to develop among the students.

Unit 1: Economic Development and Planning in India (15 Periods)

- 1.1. Approaches to economic development and its measurement; Role of State, market and other institutions.
- 1.2. Objectives and strategy of planning in India; failures and achievements of plans;
- 1.3. New thinking on the role of state in the economy;
- 1.4. Policy formulation: Planning Commission and NITI Aayog

Unit 2: Policies Relating to Agricultural Sector (15 Periods)

- 2.1. Land reforms in India; New Agricultural Strategy (Green Revolution); New Initiatives for water conservation.
- 2.2. Pricing of agricultural inputs and output.
- 2.3. Agricultural finance policy; Agricultural Marketing and Warehousing
- 2.4. Policy regarding food security; policies for sustainable agriculture.

Unit 3: Industrial & Foreign Trade Policy (15 Periods)

- 3.1. 3.1 Public sector enterprises (PSEs) – policy during the pre and post 1991 period; policy of privatization and disinvestment of PSEs; Companies Act 2013, Make in India policy,
- 3.2. Policy for the development of Micro, Small and Medium Enterprises (MSMEs); Mudra Policy
- 3.3. Issues in labour market reforms; exit policy - Insolvency & Bankruptcy Code (IBC) 2016.
- 3.4. Foreign trade policy since 1991

Unit 4: Fiscal and Financial Sector Policy (15 Periods)

- 4.1. Centre-State financial relations.
- 4.2. Fiscal policy during last decade- The FRBM Act- fiscal sector reforms in India.
- 4.3. Review of monetary policy of RBI in last decade.
- 4.4. Financial sector reforms after 1991; SEBI and capital market in India.

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DSE-25 DEMOGRAPHY

PREAMBLE:

The main objective of this paper is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The paper also enlightens the student on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques. In recent times, changing characteristics of the population have acquired importance and these have also been included in the framework of study. Migration and urbanization are the characteristics of structural change taking place in a society. Their study is essential to understand the dynamics of this change. The paper exposes the students to sources of population and related characteristics as also to the rationale, need and evolution of population policy.

Unit 1: Population and Development (15 Periods)

- 1.1. Population growth and Development and their inter-dependence- Factors affecting Population Change
- 1.2. Measures of population change- Structure and distribution of population data- Demographic dividend I and II
- 1.3 Theories of population: Malthus and Theory of Demographic Transition – The Idea of Maximum Population
- 1.4. Views of Meadows, Enke and Simon on Population and development

Unit 2: Structure of Population (15 Periods)

- 2.1. World Population trends in the twentieth century- Population explosion Threatened or real-distant or imminent
- 2.2. International aspects of population growth and distribution
- 2.3. Pattern of age and sex structure in more developed and less developed countries
- 2.4. Determinants and Demographic effects of sex and age structure- economic and social implications- Age pyramids and projections – Individual aging and population aging.

Unit 3: Fertility, Nuptiality and Mortality (15 Periods)

- 3.1. Importance of study of fertility – Total fertility rate, Gross and net reproduction rate- trends in fertility in developed and less developed countries- Factors affecting fertility
- 3.2. Nuptiality: Concept and analysis of marital status- single mean age at marriage- Synthetic cohort methods- Trends in age at marriage
- 3.3. Death rates- crude and age-specific -Mortality at birth and infant mortality rate- levels and trends in more and less developed countries Sex and age pattern of mortality
- 3.4. Factors for decline in mortality in recent past- Life table – Concepts of stable population- Methods of population projection

Unit 4: Migration, Urbanization and Demographic Database in India (15 Periods)

- 4.1. Migration: meaning, types, temporary, internal and international- International migration: effect on population growth and pattern- Factors affecting migration
- 4.2. Urbanization – Growth and distribution of rural-urban population in India
- 4.3. Study of census in India – Methodology and characteristics- 2011 census in India
- 4.4. Functional Organization of Census of India- Changing characteristics of population in India- National Population Policy-2000

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DSE 26- URBAN ECONOMICS

PREAMBLE:

Urbanization is an indicator of economic growth. Developed countries have higher and rapid urbanizations than the developing countries. Rapid urbanizations results in increased demand for urban infrastructure development and provision of utility services. The urban local governments can play a significant role in that context. Hence these are important issues necessary to study. The exclusive objective of this paper is to enable the students the knowledge of urbanization, urban problems, financing of infrastructure, urban planning and role of urban local government.

Unit 1: URBANISATION AND HUMAN SETTLEMENTS (15 Periods)

- 1.1. Urbanization: Meaning – World Urbanisation - Urbanization in India; urban size and growth - Pattern of urbanization
- 1.2. Urban morphology- factors of urbanization.
- 1.3 Human Settlements: urban spatial structure
- 1.4. Agglomeration economics – urban sprawl

Unit 2: ECONOMICS OF CITY SIZE (15 Periods)

- 2.1. Smart city: Concept – Problems and Prospects
- 2.2. Market forces in the development of cities- size of city
- 2.3. Economics of location: Central place theory-Industrial location theory
- 2.4. Economic base theory and economic base multiplier

Unit 3: URBAN PROBLEMS (15 Periods)

- 3.1. Housing and Slums -Drinking Water - Sanitation system
- 3.2. Urban crime-- Poverty and inequality – Urban quality of life measurement
- 3.3. Transport and Communication
- 3.4. Urbanization and Climate change

Unit 4: URBAN PLANNING AND MANAGEMENT (15 Periods)

- 4.1. Concept of town and urban planning – Urbanization Policy –Role of real estate.
- 4.2. Financing of urban infrastructure: Municipal bonds
- 4.3. Role of civil society in Planning and Management
- 4.4. Urban Local government – Role – revenue sources - Municipal Administration

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DSE 27- ECONOMICS OF ENERGY

PREAMBLE:

Resources play a very crucial role in the rapid and over all development of the economy. All resources are scarce, but natural resources more scare. Hence it is very much essential the preservation, conservation, protection and growth of all resources in general, and natural resources in particular. It is not that only conservation, protection and growth of resources is sufficient, but their proper allocation, and optimum and rational utilisation is also of crucial importance. Energy is a very valuable natural resource being demanded not only for production, but also for consumption. This demands to study energy in economic perspective. It is against this backdrop, the present course has been introduced. The present course will equip the students with the theoretical as well empirical aspects of energy. More importantly, it will train the students about the energy and environmental crisis.

Unit 1: INTRODUCTION TO ECONOMICS OF ENERGY (15 Periods)

- 1.1. Natural Resources: Classification - Importance - Role in Economic Development
- 1.2. Energy Resources : Types and Classification - Properties of Energy – Forms of Energy
- 1.3 Energy Indicators
- 1.4. Emergence of Energy Economics: Nature and Scope - Energy Economics in relation with other branches

Unit 2: ENERGY AND DEVELOPMENT (15 Periods)

- 2.1. Role of Energy in Economic Development
- 2.2. Energy Intensity and Energy Elasticity: National and International comparison; Low, Middle and High Income Economies
- 2.3. Role of International Institutions; OPEC (Organization of the Petroleum Exporting Countries) OAPEC (Organization of Arab Petroleum Exporting Countries)
- 2.4. IEA (International Energy Agency) and World Bank.

Unit 3: ENERGY CONSERVATION AND ENVIRONMENT (15 Periods)

- 3.1. Energy Planning, Energy Conservation and Energy Management: Meaning, Objectives and Importance
- 3.2. Recent Developments: Energy Auditing - Energy Accounting - Energy Pricing
- 3.3. Energy Crisis: Causes, Consequences - Remedial measures
- 3.4. Environmental Crisis: Causes, Consequences, Remedial Measures - Impact of Energy Consumption and Production on Environment

Unit 4: ENERGY PROFILE OF INDIA (15 Periods)

- 4.1. Indian Energy Sector - Organizational Structure
- 4.2. Energy Supply (Coal, Lignite, Oil, Gas and Powers - Hydro, Nuclear, Thermal)
- 4.3. Energy Demand (Agriculture, Industry, Transport, Domestic, etc)
- 4.4. Energy Policy of India- Energy under Five Year Plans

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DSE- 28 COMPUTER APPLICATION IN ECONOMICS – I

PREAMBLE:

Economics being an empirical science, computers have emerged as the pivotal instruments of economic analysis, research and forecasting. Therefore, the students 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.

Unit 1: Introduction to Computer System (15 Periods)

- 1.1. Computer: Meaning, concepts and Characteristics
- 1.2. Types of computers and their applications
- 1.3 Basic components of computer – CPU, Input Devices, Output Devices
- 1.4. Graphic User Interface

Unit 2: Computer Fundamentals (15 Periods)

- 2.1. Hardware and Software
- 2.2. Operating System: Meaning and Functions
- 2.3. Memory: Storage Devices-Internal and External- RAM and ROM
- 2.4. Computer Language - Binary, Assembly and High-Level Languages; Computer Translators - Assemblers, Compilers and Interpreters

Unit 3: Descriptive Statistics (15 Periods)

- 3.1. Central Tendency: Meaning, concept and objectives
- 3.2. Measures of Central Tendency: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean
- 3.3. Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
- 3.4. Standard Deviation and Coefficient of Variation

Unit 4: Growth Rates and Graphs (15 Periods)

- 4.1. Growth Rates: Simple Growth Rate
- 4.2. Compound Growth Rate
- 4.3. Diagrammatic Presentation of Data: Line Graph, Bar Diagram, Frequency and Polygon
- 4.4. Histogram, Pie Chart, and Ogive Curve

READINGLIST LIST:

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2. Elhance, D. N. (1962), Fundamentals of Statistics, KitabMahal, Allahabad.
3. Gupta, S. C. (1981), Fundamentals of Statistics, Himalaya Publishing House, Bombay.
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DSE 29- MATHEMATICAL ECONOMICS-II

PREAMBLE:

Mathematical economics deals with various applications of mathematical tools and techniques in defining and developing economic relationships. This course has been accordingly designed to include various mathematical techniques/methods/models related to the different parts of economic theory like consumer theory, theory of production, pricing etc. Mathematical economics deals with various applications of mathematical tools and techniques in defining and developing economic relationships. The paper covers important aspects of micro economics; macroeconomics and the various modules have been accordingly designed.

Unit 1: Game Theory and Input-Output Analysis (15 Periods)

- 1.1. Concept of game – Two-person zero-sum game, Pay-off matrix, pure and mixed strategies,
- 1.2. Maximin and minimax solutions, Saddle point solution; Non-constant sum game
- 1.3 Input-output analysis: Open and closed systems,
- 1.4. Hawkins-Simon conditions; Leontief's dynamic model and static model

Unit 2: Linear Programming (15 Periods)

- 2.1. Linear programming – Basic concept of linear programming problem (LPP), Assumptions, Applications
- 2.2. Properties of Linear Programming Solution
- 2.3. Solution of LPP by graphical and simplex method
- 2.4. Primal and dual problem, application LP in economics

Unit 3: National Income Determination (15 Periods)

- 3.1. National Income: Meaning, Concepts
- 3.2. National Income Determination in two sector economy
- 3.3. National Income Determination in three sector economy, Balanced Budget Multiplier
- 3.4. National Income Determination in four sector economy

Unit 4: Theory of Distribution and Consumption (15 Periods)

- 4.1. Euller's theorem, Ricordian theory of distribution,
- 4.2. Marxian theory of distribution; Kaldor's model of distribution.
- 4.3. Consumption function, static and dynamic multiplier,
- 4.4. Acceleration principle

READING LIST

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12. Jha, R. (1991), *Contemporary Macroeconomic Theory and Policy*, Wiley Eastern Ltd., New Delhi.
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DSE- 30 Econometrics-I

PREAMBLE:

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 course covers various econometric methods those needed for applied economics and applied economic research.

Unit 1: Basics Econometrics (15 Periods)

- 1.1. Econometrics: Meaning, definition and scope
- 1.2. Methodology of Econometrics
- 1.3 Nature and Sources of Data for Economic Analysis
- 1.4. Measurement Scales of Variables

Unit 2: Simple Regression Analysis (15 Periods)

- 2.1. Regression: Meaning and Concept, Modern interpretation of regression, Concept of Population Regression Function (PRF) and Sample Regression Function (SRF)
- 2.2. Method of ordinary least squares (OLS), Properties of OLS estimator: Gauss- Markov theorem, Assumptions of ordinary least squares method
- 2.3. Coefficient of determination, Method of Maximum Likelihood (ML)
- 2.4. Estimation, interpretation and testing of the regression coefficients

Unit 3: Multiple Regression Analysis (15 Periods)

- 3.1. Multiple Regression: Assumptions, Method of Ordinary Least Squares (OLS)
- 3.2. Multiple Coefficient of Determination (R^2)
- 3.3. R^2 and adjusted R^2
- 3.4. Interpretation and testing of the coefficients of multiple regression

Unit 4: Dummy Variable Regression Models (15 Periods)

- 4.1. Dummy Variables: Meaning and Nature, ANOVA and ANCOVA Models
- 4.2. Interaction Effects Using Dummy Variables
- 4.3. Use of Dummy Variables in Seasonal Analysis
- 4.4. Piecewise Linear Regression

READING LIST:

1. Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
2. Baltagi, B. H. (1998), Econometrics, Springer, New York.
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DSE-31 ECONOMICS OF SOCIAL SECTOR AND ENVIRONMENT

PREAMBLE:

Social services have a special importance, because they directly help in promoting the level of social welfare. Hence it is of vital importance to study the issues relating to social services and welfare. Environmental goods and services are considered as public goods; therefore environment should be studied in the framework social welfare. Economic valuation of the environment is very much necessary to know its role in development as well as social welfare maximisation. Environmental Management is of crucial significance for the preservation and protection of the environment. It is therefore the study of Economics of Social Sector and Environment is assumed of greater significance on the number counts. The major intension of this course/paper is to provide knowledge of the important aspects in theory and practice, such as welfare and environment, economic valuation of the environment, optimal use of natural resources and social services like education and health to the students in theory and practice as well.

UNIT I: WELFARE ECONOMICS AND ENVIRONMENT: (15 Periods)

1.1: Welfare Economics: Fundamental theorems of welfare economics; Pareto welfare optimality conditions

1.2: Theory of Externalities: Externalities and market- externalities and market inefficiency – externalities as missing markets – Property rights and externalities.

1.3: Theory of Public Goods: Optimal provision of public goods;

1.4: Partial and General Equilibrium Analysis – Wicksell and Lindahl model of provision of Public goods

UNIT II: ECONOMIC VALUATION OF ENVIRONMENT: (15 Periods)

2.1: Meaning and Types of Environmental Values: Total Economic Value, Use value, Non-use Value, Existence value, Option value; Future use value, Bequest value, Vicarious value

2.2: Techniques/ Methods of Environmental Valuation: I) Direct Methods: Contingent Valuation Method, Trade off Games Method, Costless Choice Method, Delphi Technique

2.3: Indirect Methods: Hedonic Pricing Method,

2.4: Travel Cost Method

UNIT III: ECONOMICS OF NATURAL RESOURCE MANAGEMENT (15 Period)

3.1: Theories of Optimal Use of Exhaustible and Renewable Resources

3.2: Environmental Policy: Polluter Pays Principle (PPPs) – Trade and Environment -Coase's Bargaining Solution and Collective Action

3.3: Environmental Accounting: System of Integrated Environmental and Economic Accounting (SEEA)

3.4: measurement of Environmentally Corrected GDP &NDP

UNIT IV: ECONOMICS OF SOCIAL SECTOR: EDUCATION, HEALTH (15 Period)

4.1: Education as an instrument for economic growth - Demand for and Supply of education

4.2: Cost benefit analysis in Education: Costs of Education; private costs and social costs-Benefits of education; Direct and indirect benefits of education, private and social benefits- Financing of Education

4.3: Health dimensions of development - Determinants of health - Economic dimensions of Health care -

4.4: Demand and Supply of health care –Financing of Health

READING LIST:

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SHIVAJIUNIVERSITY, KOLHAPUR
DEPARTMENT OF ECONOMICS-AUTONOMOUS
M.A. Economics Part-II Semester-IV

Course Type	Course title
DSC-7	International Economics
DSC-8	Economics of Growth and Development
DSE-32	Co-operative Thoughts and Administration
DSE-33	Statistics for Economics
DSE-34	Global Business Logistics
DSE-35	Economics of Infrastructure
DSE-36	Advanced Banking
DSE-37	Welfare Economics
DSE-38	Research Methodology
DSE-39	Economic Thoughts of Chh. Shahu Maharaj
DSE-40	Computer Application in Economics II
DSE-41	Economics and Law
DSE-42	Econometrics II

DSC-7 INTERNATIONAL ECONOMICS

PREAMBLE:

The course provides a deep understanding about the broad principles and theories, which govern the free flow of trade in goods, services and capital – both short term and long term – at the global level. Besides, preparing the students about the relevance and limitations of these principles, the contents of the paper spread over different units, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both at the national and international levels as also their welfare implications at macro level and the distribution of gains from trade to North and South. The major objective of the paper is to train the students about the various issues of trade and likely consequences on income, employment and social standards and possible policy solutions as the world will move into the 21st century.

Unit 1: THEORIES OF INTERNATIONAL TRADE (15 Periods)

Absolute Cost Advantage Doctrine of Adam Smith -Comparative Cost Advantage Theory of International Trade by Ricardo- Monetary Expression by Taussig – Comparative Cost Theory Applicable to more than Two Goods and two Countries – Opportunity Cost version of comparative Cost Advantage Theory

1.2. Heckscher- Ohlin Theory of Trade - Leontief Paradox - Theory of economic geography- Krugman.

1.3 Role of dynamic factors, i. e., changes in tastes, technology and factor endowments in explaining the emergence of trade

1.4. Complementary Trade Theories: Linder Theory- Karvis Theory

Unit 2: GAINS FROM INTERNATIONAL TRADE & THEIR MEASUREMENT (15 Periods)

2.1. Trade and Economic Growth

2.2. Factors affecting Gains from International Trade - Measurement and Distribution of Gains from trade

2.3. Terms of Trade; Concepts, Factors affecting, Uses & Limitations

2.4. Theory of Reciprocal Demand - Hypothesis of secular deterioration of terms of Trade

Unit 3: THEORY OF INTERVENTIONS IN TRADE (15 Periods)

3.1. Free Trade and Protective Trade: Arguments in favour & against

3.2. Barriers to Trade: Tariffs; Meaning- Types – Effects- Optimum Tariff – Effective Rate of Protection/ Tariff

3.3. Barriers to Trade: Non Tariffs; Quotas, Exchange Control, Price Discrimination/ Dumping, State Trading, Subsidies, Commodity Agreements, International Cartels – Political Economy of Protection.

3.4. Effects of Tariffs under General Equilibrium, Samuelson Theorem.

Unit 4: THEORY OF BALANCE OF PAYMENTS AND ECONOMIC INTEGRATION (15 Periods)

4.1. 4.1 Balance of Payments: Meaning, Structure and Components – Equilibrium and disequilibrium in Balance of Payments

4.2. Balance of Payments Adjustment Mechanisms; I) BOPs Adjustments through Variations in Exchange Rates: Elasticity Approach, Marshall- Lerner Conditions, The J –Curve Effect,

Absorption Approach, II) Balance of Traditional Approach, Monetarist Approach, Structuralist Approach -Foreign Trade Multiplier; without Repercussion and with Repercussion Effect

4.3. Economic Integration / Cooperation: Meaning, Forms and Benefits –Theory of Customs Union - Regional Blocks: SAARC, ASEAN- EU.

4.4. Multilateralism and WTO –Conditionality clause of IMF.

READING LIST:

1. Agarwal, M. R.(1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
2. Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Massachusetts.
3. Brahmananda, P. R. (1982), The IMF Loan and India's Economic Future, Himalaya publishing House, Bombay.
4. Carbough, R. J. (1999), International Economics, International Thompson Publishing, New York.
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DSC-8 ECONOMICS OF GROWTH AND DEVELOPMENT

PREAMBLE:

This paper includes the theories of growth and development, social and sartorial aspects of development, importance of agriculture and industry, the rationale and pattern of industrialization in developing countries. The other important issues related to development such as policy environment, infrastructure –linkages, role of international trade, role of monetary and fiscal policies, investment criteria and relevance for planning have been included. This paper deals with the theoretical aspects of the process of growth and development including the role of agriculture and industry as well as the role of the state.

Unit 1: Economic Growth and Development (15 Periods)

- 1.1. Concepts of growth and development-Characteristics of LDCs- Indicators of development
- 1.2. Factors affecting economic growth-Growth models: Harrod- Domar, balanced and unbalanced growth- Solow Model.
- 1.3 Hicks; optimal savings and Ramsay's rule; golden rule of accumulation
- 1.4. AK model

Unit 2: Theories of Development (15 Periods)

- 2.1. Classical theory of development: contributions of Ricardo, Karl Marx: theory of social change, surplus value and profit.
- 2.2. Cobb-Douglas production function- Big push theory- Rosenstein Rodan - Myrdal.
- 2.3. Critical minimum effort thesis and low income equilibrium trap of Libenstin
- 2.4. Ranis and Fei Model

Unit 3: Social and Sectoral Aspects of Development (15 Periods)

- 3.1. Choice of techniques and appropriate technology and employment
- 3.2. Terms of trade between agriculture and industry
- 3.3. Measuring development and development gap – Kuznet curve
- 3.4. Human Development index and other indices of development and quality of life

Unit 4: Macroeconomic Policies and Development (15 Periods)

- 4.1. Role of monetary and fiscal policies in developing countries
- 4.2. Inclusive Growth- Washington Consensus- Decentralization – Micro level planning
- 4.3. Review of post-liberalization development performance of India
- 4.4. Contemporary development problems

READING LIST:

- 1) Adelman, I. (1961), Theories of Economic Growth and Development,Stanford University Press, Stanford.
- 2) Barrell, R., G. Mason and M. O. Mahoney (2000), Productivity, InnovationandEconomic Performance, Cambridge University Press, Cambridge.
- 3) Barrow, R. and X. Sela-I, Martin, Economic Growth, McGraw Hill, NewYork.
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 - 35) United Nations (1994), *Human Development Report*, United Nations, New York.
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DSE- 32 CO-OPERATIVE THOUGHTS AND ADMINISTRATION

PREAMBLE:

Co-operative movement, now-a-days has become a part of total economic activities. It is not only an economic movement, but also social, political and ethical movement, enriching total human life. Proper understanding of co-operative thoughts and administration is a prerequisite for study of co-operative movement.

Unit 1: Co-operative Thoughts (15 Periods)

- 1.1. Robert Owen - Rochadale Pioneers-, Charles Fourier - Paul Lambert
- 1.2. Scheultze Delitsche Raiffeisen - Frederick Nicholson
- 1.3 D. R. Gadgil- Vaikunthbhai Mehta.
- 1.4. International Co-operative Alliance: Organization and functions. I.C.A. and Co-operative Principles

Unit 2: Co-operative Administration (15 Periods)

- 2.1. Co-operative Management- Concept and Unique Features
- 2.2. Henry Fayol's general principles of management.
- 2.3. Management Structure: Types and procedure of general body meetings- Duties of Board of Directors - & role of Secretary/ Managing Director.
- 2.4. Concept of Corporate Governance.

Unit 3: Leadership and Human Resource Development (15 Periods)

- 3.1. Role of leadership – Leadership qualities – Leadership Development Programme.
- 3.2. Contribution of Co-operative Leaders: Vasantdada Patil, Padamshri Vilkhé Patil, Tatyasaheb Kore
- 3.3. HRD and Education and training Facilities in India- Need and Problems of HRD
- 3.4. Recent Trends in Co-operative Management

Unit 4: Role of State and Co-operative Audit (15 Periods)

- 4.1. Role of state in co-operative movement: State aid and State control- Cooperative Legislations and need for reforms.
- 4.2. Co-operative Audit: Concept and Salient Features-Types
- 4.3. Co-operative Supervision: BASEL Norms
- 4.4. Auditor: Duties, rights & responsibilities

BASIC READING LIST:

1. Chinchankar, P. Y. and Namjoshi, M. V., Co-operation and dynamics of Change, Somaiya, Bombay.
2. Cole, G. D. H., A Century of co-operation, George Allen and Unwin Ltd., London.
3. Dwivedi, Co-operatives – Values and Identity.
4. E. Paul Roy, Co-operation Today and Tomorrow, Interstate Printers and Publications, U. S. A.
5. Goel, S. L. & Goel, B. B., Co-operative Administration, Sterling Publications, New Delhi.
6. Gokhale Institute of Politics and Economics, Speeches and Writings of Professor D. R. Gadgil on Co-operation.
7. Govatia, B. S., Verma, H. L. and Others (1994), Co-operatives and Human Resource

Development, Vol. 1 to 5, Deep and Deep Publications.

8. I. L. O., Geneva, (1959), Some Trends within the World Co-operative Movement.

9. International Co-operative Alliance: Review of International Cooperation.

10. Kamat, G. S. (1978), New Dimension in Co-operatives, Himalaya Publishing House.

11. Mehta Vaikunthbhai, Towards a Co-operative Socialist Commonwealth.

12. Patnaik and Roy, Co-operation and Co-operative Management, Kalyani Publishers, New Delhi.

13. Saxena, R. K., Evolution of Co-operative Thought, Somaiya Publications, Bombay. 54

14. Stephenson (1978), Management in Co-operatives, Himalaya Publishing House.

15. Taimani, K. K., Co-operative Organisation and Management.

16. Taimani, K. K., Training and Development of Human Resources in Co-operatives, Savin Brothers, New Delhi.

DSE-33 STATISTICS FOR ECONOMICS

PREAMBLE:

The main objective of this paper is to train the students to use the advanced techniques of statistical analysis, which are commonly applied to understand and analyze economic problems. The emphasis of this paper is on understanding economics with the help of statistical tools. Hence, in this paper a student will be initiated into various economic concepts, which are amenable to statistical treatment.

Unit 1: Index Numbers (15 Periods)

- 1.1. Index Number: Meaning, Concept, Importance, Characteristics and Uses
- 1.2. Types of Index Numbers and Problems in the Construction of Index Numbers
- 1.3 Methods of Constructing Index Numbers: Unweighted Index Numbers-Simple Aggregative Method, Simple Average of Relatives Method
- 1.3.Methods of Constructing Index Numbers: Weighted Index Numbers- Laspeyers Method, Paasche Method, Dorbish and Bowley's Method, Fisher's Ideal Method, Marshall-Edgeworth Method and Kelly's Method
- 1.4.

Unit 2: Time Series Analysis (15 Periods)

- 2.1. Time Series: Meaning, Concept, Importance
- 2.2. Components of Time Series
- 2.3. Measurement of Trend-Freehand or Graphic Method, Method of Semi Averages, Method of Moving Averages, Method of Least Squares
- 2.4. Measuring Trend by Logarithms

Unit 3: Statistical Inference and Tests of Hypothesis (15 Periods)

- 3.1. Hypothesis Testing-Meaning, Concept, Procedure, Type 1 and Type 2 errors
- 3.2. Goodness of fit; Confidence intervals and level of significance
- 3.3. Tests of Significance for Large Samples
- 3.4. Tests of Significance for Small Samples- Student's t test, Z test and Chi- Square Test

Unit 4: Analysis of Variance (15 Periods)

- 4.1. Analysis of variance: Introduction, assumptions and techniques
- 4.2. One-way classification
- 4.3. Two-way classification
- 4.4. ANOVA table; F-test

READING LIST:

1. Allen, R. G. D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Baumol, W. J. (1984), Economic Theory and Operations Analysis, Prentice Hall, Englewood Cliffs, New Jersey.
3. Chiang, A. C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
4. Croxton, Crowden and Klein (1971), Applied General Statistics, Prentice Hall of India, New Delhi.
5. Elhance, D.N., Elhance, Veena and Aggarwal, B. M. (2015) Fundamentals of Statistics,

KitabMahal, Allahabad

6. Goon, A. M., M. K. Gupta and B. Dasgupta (1993), Fundamentals of Statistics, Vol. 1, The World Press Ltd., Calcutta.
7. Gupta, S. C. (1993), Fundamentals of Applied Statistics, S. Chand&Sons., New Delhi.
8. Gupta, S.P. (2016) Statistical Methods, Sultan Chand & Sons, New Delhi
9. Handry, A. T. (1999), Operations Research, Prentice Hall of India, New Delhi.
10. Hogg, R. V. and A. T. Craig (1970), Introduction to Mathematical Statistics (3rdEdition), Macmillan Publishing Co., New York.
11. Millar, J. (1996), Statistics for Advanced Level, Cambridge University Press, Cambridge.
12. Monga, G. S. 91972), Mathematics and Statistics for Economists, VikasPublishing House, New Delhi.
13. Nagar, A. L. and R. K. Das (1993), Basic Statistics, Oxford University Press, New Delhi.
14. Reddy, C. R. (1990) : Quantitative Methods for Management Decision, Himalay Publishing House, Mumbai.
15. Singhal Mohan (2005:06) : Elements of Statistics, Lakshmi NarainAgrawal, Agra.
16. Speigal, M. R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co., London.
17. Sukhatme, P. V. and B. V. Sukhatme (1970), Sampling Theory of Survey with Applications, Iowa State University Press, Ames.
18. Taha, H. A., (1997), Operations Research: An Introduction (6th Edition), Prentice Hall of India Pvt. Ltd., New Delhi.
19. Yamane, Taro (1975), Mathematics for Economists, Prentice Hall of India, New Delhi.

DSE- 34 GLOBAL BUSINESS LOGISTICS

PREAMBLE:

The purpose of this paper is to acknowledge the students about the international trade logistics. There is need to prepare students better for a wide range of employment and self employment opportunities available in this sector. Due to the increasing international trade, there are increasing different opportunities to youth. This course is focused on Global Logistics systems and Supply Chain Management which provide opportunity to learn about same.

Unit 1: Introduction to Global Logistics (15 Periods)

- 1.1.** Meaning, definitions and significance of global business logistics
- 1.2.** Global Logistics System- Order processing, Warehousing, Inventory control, Transportation, Information monitoring and Facilities
- 1.3** Forms of Logistics Management-Centralized, Decentralized and Outsourcing, Documentation in Logistics,
- 1.4.** Warehousing- System and Principles of Warehouse Operating, Importance of Warehouses

Unit 2: International Supply Chain Management (15 Periods)

- 2.1.** Meaning and Objectives of International Supply Chain Management (SCM)
- 2.2.** Principles and Need of Supply Chain Management, Difference Between Domestic and Global Supply Chain Management
- 2.3.** Role of Supply Chain Manager , Supply Chain Decision
- 2.4.** Case study on supply chain management

Unit 3: Transportation Activity (15 Periods)

- 3.1. Important Transportation activities-** Terminal Facilities, Fleet management, Key Movers, Routing, Transit time management, Distribution Pattern, Nature of Product, Asset Tracking
- 3.2. Elements of Customer Service in Transportation Activity-** Pre- transaction, Transaction and Transaction,
- 3.3. Dimensions of customer services in Transportation-** Availability, Consistency, Cost-effectiveness, Performance, and Reliability etc
- 3.4. Freight system-** Meaning, Types of Freight Rate, Factors involved in Ratemaking, Determination of optimum freight rates

Unit 4: Air and Ocean Transportation (15 Periods)

- 4.1. Air Transportation-** Air transportation system in India, The Indian Air cargo Market, Categories of Air Transport Services, Air Freight Rate Classification
- 4.2.** Problems relating to Air Transportation in India, Major Policy Initiatives
- 4.3. Shipping Industry** - Classification and Characteristics, Freight Structure and Practices
- 4.4. Ocean Transportation-** Concepts of containers, Types of containers, Advantages of containers, Indian container scenario, Problems & prospects of containerization

READING LIST:

1. Ballun, R. H., (2000). Business Logistics Management, Prentice Hall International, Inc.,
2. Dale Neef (2004). The Supply Chain Imperative, Amacom, 2004
3. Donald F. Wood, Anthony Barone, Paul Murphy, Daniel Wardlow (2012). International Logistics, Springer Science & Business Media, 2012

4. Donald J. Bowerson (2010) Logistic and Supply Chain Management, Prentice Hall of India
5. G Raghuram and N Rangaraj (2015) Logistics and Supply Chain Management: Macmillan Publication.
6. Krishnaveni Multiah () Logistic Management and World Sea Borne Trade , Himalaya Publication
7. Nandi S. K., Ganapathi S. L.(2015). Logistics Management, Oxford University Press, 2015
8. Osijek Croatia (2015). Business Logistics In Modern Management, Proceedings of The 15th International Scientific Conference
9. Rai Technology University(2016) International Logistics Management, Rai Technology University , Bangalore

DSE-35 Economics of Infrastructure

PREAMBLE:

This course is designed to acquaint the students with the role of infrastructure in economic growth. The broad view is of physical as well as social infrastructure. The main aim of this paper is to aware the students about the economic and social aspects of the infrastructural development and problems of infrastructure. The second aim of this paper is to familiarize the students with key issues in financing, governance and inter-regional disparities.

Unit I- Introduction to Economics of Infrastructure (15 Periods)

- 1.1. 1.1 Concept and Components of infrastructure- Role of Infrastructure in economic development
- 1.2. 1.2 Concepts and features of Social and physical infrastructure, Indicators of Infrastructure Development: Investment – Spread – Availability – Utilization
- 1.3 Infrastructure as a public good- Special characteristics of public utilities
- 1.4. The peak-load, Off-Load Problem- Methods of Pricing in Public Utilities

Unit No. 2 Road and Railway Connectivity (15 Periods)

- 2.1. Road Connectivity: Classification- Importance and Problems.
- 2.2. Public Private Partnership (PPP) Model: Need, Importance and issues of PPP Model in Road development
- 2.3. Railway Connectivity: Types, Progress and Problems- Pricing and Price Discrimination in Railway
- 2.4. Issues in Railway Services: Security- Punctuality- Convenience- Availability- Quality- Reliability- Complexity

Unit No. 3 Communication and Water Supply (15 Periods)

- 3.1. Telecommunication Sector - Oligopoly Market in Cellular Service Industry- Pricing-Factor Affecting
- 3.2. Nature of Urban and Rural Water Supply - Pricing of Drinking Water Supply - investments - Public Sector and Community Collaboration
- 3.3. Power and Energy: Power Generation- Methods and Principles of Energy Pricing- Privatization of Electricity.
- 3.4. Renewable Energy Sources

Unit No. 4 Infrastructure Financing (15 Periods)

- 4.1. Role of government in building and maintaining infrastructure assets
- 4.2. Project viability and evaluation- Criterion of Investment in infrastructure projects
- 4.3. Risk Management of Infrastructure Projects- Risk analysis techniques- Credit Rating of Infrastructure Projects
- 4.4. Sources of finance for infrastructure projects- Financial and Economic Appraisal of BOT Projects

Reading List:

- 1 Akintoye, A., Beck, M., & Hardcastle, C. (Eds.). (2003). Public-Private Partnerships - Managing risks
2. Crew, M. A. and P. R. Kleindorfer (1979), Public Utility Economics, Macmillan, London.
3. Das, K. (2010), 'Lopsided Infrastructure', in Alternative Survey Group (Ed.), Alternative Economic Survey, India: Two Decades of Neoliberalism, Daanish Books, Delhi, pp. 195-209.
4. Elena S. Prassas, Roger P. Roess (2013). Engineering Economics and Finance for Transportation Infrastructure, Volume 3 , Springer Science & Business Media, 2013

DSE- 36 ADVANCED BANKING

PREAMBLE:

This paper provides detailed information about the Advancement in Indian banking system. Though this paper we intended to aware the students about banking technology, recent trends in banking sector. We also provided the opportunity to the students to achieve as specific skills which are required for working banking sector.

Unit 1: Banking Technology in India (15 Periods)

- 1.1.** Applications of ICT in Banking, Importance of ICT in Banking, Role of IDRBT
- 1.2.** Internet Banking - Nature, Scope and RBI's Guidelines on Internet Banking
- 1.3** Mobile Banking - Nature, Scope, Mobile Apps, and RBI's Guidelines on Mobile Banking
- 1.4.** Electronic Clearing- ECS-Credit & Debit, IMPS, NACH, CTS, BBPS, NFET, RTGS, SWIFT

Unit 2: Credit and Risk Management in Banks (15 Periods)

- 2.1.** Asset Liability Management - RBI Guidelines - ALCO Guidelines techniques / tools
- 2.2.** Capital adequacy , Prudential and Exposure norms, BASEL I, II, III
- 2.3.** Risk in Banking Sector - Credit Risk, Liquidity Risk, Interest Rate Risk, Market Risk, Operational Risk, Currency Risk and Sovereign Risk, RBI guidelines on risk management
- 2.4.** Organization and Functions of ALCO, Case studies on Risk Management

Unit 3: Banking & Cyber Laws (15 Periods)

- 3.1.** Negotiable Instruments Act 1881 , The Bankers' Books Evidence Act–1891
- 3.2.** The SARFEASI Act -2002, Prevention of Money Laundering Act, 2002,
- 3.3.** Meaning and Types of Cyber Crimes in Banking Sector, Information Technology Act, 2000
- 3.4.** Data Security and Importance, Case Studies on Cyber Crimes

Unit 4: Bank Management Practices (15 Periods)

- 4.1.** Structure and nature of Head office and Regional Offices
- 4.2.** Duties and Responsibilities of General Manager and Regional Manager
- 4.3.** Structure and staff of the Branch office, Role of Branch Manager
- 4.4.** Case Study on functioning of Head office, Regional Office and Branch Office

READING LIST:

1. Eddie Cade, Managing Banking Risks, Woodhead Publishing Ltd., in association with The Chartered Institute of Bankers, England.
2. IIBF, Credit and Risk Management, McMillan Publications
3. Jyotsna Sethi and Nishwan Bhatia, Elements of Banking and Insurance, Prentice Hall of India: New Delhi
4. M.L.Tannan, C.R. Datta & S.K. Kataria (2011) Banking Law and Practice, Wadhwa & Company, Nagpur
5. Right to Information Act, 2005
6. S. R. Bhansali, Information Technology Act, 2000 (2003), University Book House Pvt. Ltd., Jaipur
7. Sudhir Naib, The Information Technology Act, 2005 (2011), A Handbook, OUP, New York

8. The Bankers'Books Evidence Act–1891
9. The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act–(SARFASI-2002)
10. Vasant C. Joshi and Vinay V Joshi (1998), Managing Indian Banks: The Challenges Ahead, Response Books, New Delhi.
11. Vasu Deva, Cyber Crimes and Law Enforcement (2003), Commonwealth Publishers, New Delhi

DSE 37 WELFARE ECONOMICS

PREAMBLE:

Evaluation of normative significance of economic events and issues forms the framework of welfare economics. Many applied branches of economics such as public finance, cost-benefit analysis, industrial economics and economics of government policy use welfare economic criteria as their foundation.

Unit 1: Principles of Welfare Economics (15 Periods)

- 1.1. Welfare concept – national income and welfare – Resources use and welfare optimum
Resource Allocation and Welfare Maximization- Problem of income distribution
- 1.2. Cardinality, comparability and equity in welfare
- 1.3 State and welfare- Impact of Government interference on social welfare
Welfare economics and policy analysis
- 1.4. Privatization, Globalization and Welfare

Unit 2: Pre-Paretian Welfare Economics (15 Periods)

- 2.1. Benthamite Approach to Aggregate Welfare- Assumption of Uniform Income – Utility
Function of Individuals- Issue of Interpersonal Comparisons of Utility.
- 2.2. Marshallian Welfare Economics: Consumer's Surplus; Measurement, Difficulties and
Criticism- Principles of compensating Variation
- 2.3. Hicks Four Concepts of Consumer's surplus
- 2.4. Consumer's Surplus and Tax-Bounty Analysis.

Unit 3: Paretian Welfare Economics (15 Periods)

- 3.1. Pareto optimality – Optimum production, consumption and exchange- Concept of contract
curve- Top level optimum- Infinite number of non-comparable optima vs. unique social
optimum; Compensation criteria
- 3.2. Contributions of Barone, Kaldor and Hicks
- 3.3. The Scitovsky double criterion- Concept of community indifference map
- 3.4. Samuelson's utility possibility curve- Value judgments and welfare economics- Bergson's
social welfare function- Arrow's impossibility theorem.

Unit 4: Recent Welfare Thoughts (15 Periods)

- 4.1. Divergence between private and social cost- Problems of non-market interdependence-
Externalities of production and consumption- External economies and Diseconomies- Problem of
public goods.
- 4.2. Pigovian welfare economics- Second best optima- Marginal cost pricing
- 4.3. Cost-benefit analysis- Interdependent utilities- Dynamic Welfare analysis
- 4.4. Property rights and development policies- fairness theory and distributive justice. Theory of
public choice and policy implication- Amartya Sen's contribution to welfare economics

READING LIST

1. Arrow, K. J. (1951), *Social choice and Individual Values*, Yale University Press, New Haven.
2. Baumol, W. J. (1965), *Welfare Economics and the Theory of the State* (Second Edition) Longmans, London.
3. Baumol, W. J. (Ed.) (2001), *Welfare Economics*, Edward Elgar Publishing Ltd UK
4. Broadway, R. W. and N. Bruce (1984), *Welfare Economics*, Basil Blackwell, Oxford.
5. Duesenberry, J. S. (1949), *Income, Saving and the Theory of consumer Behaviour*, Harvard University Press, Cambridge, Mass.
6. Feldman, A. M. (1980), *Welfare Economics and Social Choice theory* MartinusNijhoff, Boston.
7. Graaff J. de V. (1957), *Theoretical Welfare Economics*, Cambridge University Press, Cambridge.
8. Little, I. M. D. (1939), *A Critique of Welfare Economics* (2nd Edition), Oxford University press, Oxford.
9. Marshall, A. (1946), *Principles of Economics*, Macmillan, London.
10. Myint, H. (1948), *Welfare Economics*, Macmillan, London.
11. Nicholas, B. (Ed.) (2001), *Economic Theory and the Welfare state*, Edward Elgar Publishing Ltd., U. K.
12. Pigou, A. C. (1962), *The Economics of Welfare* (4th Edition) Macmillan.
13. Quirk, J. and R. Saposnik (1968), *Introduction to General Equilibrium theory and Welfare Economics*, McGraw Hill, New York.
14. Samuelson, P. A. (1947), *Foundations of Economic Analysis*, Harvard University Press, Cambridge, Mass.

DSE 38- RESEARCH METHODOLOGY

PREAMBLE:

Research has a special relevance in any faculty, stream and area. It is a source of policy inputs for the policy maker and the government also. It is therefore in massive scale research is being carried out in a variety of forms at academic as well as policy level. This necessitates in understanding concepts and theoretical issues and aspects of research methodology. It is against this over all backdrops, the course / paper of Research Methodology has been introduced at post graduate level. The present course will equip the students with concepts, theoretical issues and framework relating to research methodology.

Unit 1: INTRODUCTION TO RESEARCH METHODOLOGY (10 Periods)

- 1.1. Research: Meaning – Objectives - Motivation - Types - Approaches - Significance
- 1.2. Research Methods versus Methodology
- 1.3 Research Process and basic research concepts (facts, concepts, hypothesis, and theory/paradigm/model)
- 1.4. Criteria of Good Research

Unit 2: RESEARCH PROBLEM AND RESEARCH DESIGN (10 Periods)

- 2.1. Research Problem: Meaning- Selection – Necessity - Technique Involved
- 2.2. Research Proposal and Design: Meaning - Need
- 2.3. Features of a Good Design - Important Concepts Relating to Research Design
- 2.4. Different Research Designs

Unit 3: SAMPLING AND DATA COLLECTION (20 Periods)

- 3.1. Census and Sample Survey - Steps in Sampling Design - Criteria of Selecting a Sampling Procedure, Concept of sample size.
- 3.2. Characteristics of a Good Sample Design - Types of Sample Designs- How to Select a Random Sample?
- 3.3. Collection of Primary Data: Observation Method, Interview Method, Questionnaires, Schedules - Difference between Questionnaires and Schedules - Other Methods of Data Collection
- 3.4. Collection of Secondary Data - Selection of Appropriate Method for Data Collection - Case Study Method

Unit 4: PROCESSING & ANALYSIS OF DATA, TESTING OF HYPOTHESES AND INTERPRETATION & REPORT WRITING (20 Periods)

- 4.1. Data Processing- Scrutiny, Classification, Editing and Tabulation – Problems
- 4.2. Elements /Types of Analysis - Statistics in Research: Basic Concept of Measures of Central Tendency- Dispersion - Regression and Correlation Analysis.
- 4.3. Hypothesis: Meaning - Basic Concepts Concerning Testing -Procedure - Measuring the Power of a Hypothesis Test - Tests of Hypotheses: Important Parametric and Non Parametric Tests
- 4.4. Interpretation: Meaning - Why- Technique- Precaution -Report Writing: Significance - Steps- Layout - Types - Mechanics –Precautions

READING LIST:

1. Ackoff, Russell L., (1961) The Design of Social Research, Chicago: University of Chicago Press .
2. Ackoff, Russell L., (1962) Scientific Method, New York: John Wiley & Sons.
3. Allen, T. Harrell, (1978) New Methods in Social Science Research, New York: Praeger Publishers.
4. Anderson, H.H., and Anderson, G.L., (1951) An Introduction to Projective Techniques and Other Devices for Understanding the Dynamics of Human Behaviour, New York: Prentice Hall .
5. Anderson, T.W., (1958) An Introduction to Multivariate Analysis, New York: John Wiley & Sons.
6. Bailey, Kenneth D.,(1978) “Methods of Social Research,” New York, 1978.
7. Baker, R.P., and Howell, A.C., (1938) The Preparation of Reports, New York: Ronald Press.
8. Berdie, Douglas R., and Anderson, John F., (1974) Questionnaires: Design and Use, Metuchen N.J.: The Scarecrow Press, Inc.
9. Berenson, Conard, and Colton, Raymond, (1971) Research and Report Writing for Business and Economics, New York: Random House.
10. Best, John W., and Kahn, James V., (1986) “Research in Education,” 5th Ed., New Delhi: Prentice-Hall of India Pvt. Ltd.
11. Bhandarkar and Wilkinson (2010) Methodology and Techniques of Social Science Research , Himalaya Publishing House, New Delhi
12. Bowley, A.L., (1937) Elements of Statistics, 6th ed. London: P.S. King and Staples Ltd..
13. Ghosh, B.N., (1982) Scientific Methods and Social Research, New Delhi: Sterling Publishers Pvt. Ltd.,.
14. Goode, William J., and Hatt, Paul K., (1952) Methods in Social Research, New York: McGraw-Hill.
15. Gopal, M.H., (1965) Research Reporting in Social Sciences, Karnatak University. Dharwad
16. Gopal, M.H.,(1964) An Introduction to Research Procedure in Social Sciences, Bombay: Asia Publishing House.
17. Gupt , S. C. (2016) Fundamentals of Statistics, Himalaya Publishing House, New Delhi
18. Gupta, S. P. (2017) Statistical Methods, S Chand and Sons , New Delhi
19. Hans Raj (2000) Theory and Practice in Social Science Research, Surjeet Publications,
20. Kothari, C. R. (2004) Research Methodology: Methods and Techniques , New Age International (P) Ltd., New Delhi.

DSE 39 - Economic Thoughts of Chh. Shahu Maharaj

PREAMBLE:

Rajarshi Chh. Shahu Maharaj of Kolhapur (1894-1922) is considered to be a great king because of his social welfare oriented and production emphatic policies regarding different sectors of the state economy. During his reign spread over 28 years he made balanced efforts to initiate and sustain a process of economic growth coupled with social justice. His thoughts, policies and programmes covered areas like infrastructure, agriculture, co-operation, industry, trade, finance, labour, services including education and health. He developed systematic approach to public finances of the state and incorporated important policy decisions resulting into social justice and larger welfare in the broad framework of freedom of policy making and implementation under overall supervision and guidance from the British Govt.

Unit 1: AGRICULTURE AND CO-OPERATION (15 Periods)

- 1.1. Broad Policy Framework - its formation - Rajarshi's Approach Towards Agriculture
- 1.2. Major Problems of Agriculture in Rajarshi's Reign - Irrigation and Agricultural Development
- 1.3. Rajarshi's Various Agricultural Experiments in the state - Agriculture Allied Activities
- 1.4. Co-operation in the Kolhapur state -Rajarshi's Role in Co-Operative development - Co-Operative Societies in the Kolhapur state

Unit 2: INFRASTRUCTURE, INDUSTRY AND TRADE (15 Periods)

- 2.1. Development of Roads in Rajarshi's Reign – Railway - The Scheme of Radhanagari Dam
- 2.2. Rajarshi's Role towards Industrial development: Public, Joint, Co-operative and Private Sector Industries during Rajarshi's Reign
- 2.3. Rajarshi's Industrial Experiments
- 2.4. Trade in the Kolhapur state during Rajarshi's reign– Development of the markets - Standard Scales, Weights and measures - Loans to Traders – Trade Rule and Banking Service

Unit 3: SERVICES AND PUBLIC FINANCE (15 Periods)

- 3.1. Educational Policy of Rajarshi - Primary Education, Secondary and Higher Education, Various Schools - Boarding / Hostel Movement - Female Education
- 3.2. Health: Plague –Influenza – Vaccination
- 3.3. Trends in Receipts and Expenditure of The Kolhapur state
- 3.4. Overall budgetary position in The Kolhapur state

Unit 4: LABOUR AND FAMINE (15 Periods)

- 4.1. Rajarshi's Labour policy-Labour Movement during Rajarshi's reign.
- 4.2. Labour/Workers Training - Labour Social Security
- 4.3. Famines During Rajarshi's reign - Remedies of famine relief in the Kolhapur state
- 4.4. Shahu's Development Policy Model

READING LIST:

1. Bhagat R.T. – Rajarshi Shahu Chhatrapati Jeevan Va Shikshankary, SiddharajPrakashan, Pune, June 2003.
2. Dhatavkar Bhaskar (Ed.) – Shahu Chhatrapatinche Nivdak Aadesh (Part I), Purabhilekh Vibhag, Maharashtra Shasan Mumbai, 1988.
3. Ghuge V. B. - “Chhatrapati Shahu”s Revolutionary Ideas and Policies” in the Souvenir 86th Annual Conference of I.E.A, Shivaji University, Kolhapur, Dec. 2003.
4. Ghuge V. B. – Chhatrapati Shahu’s Socialist Economic Policies (1894 to 1922) The Kolhapur Writers Co.operative Society Ltd., 1975.
5. Ghuge V. B. – Chhatrapati Shahunche Arthakaran (1894 to 1922), Z. P. Publication, Kolhapur, 1975.
6. Ingale J. S. and Shinde M. N.- “Rajarshi Shahu MaharajanchyaVicharanche Aarthic, Samajikva Rajkiya Vicharvantanchya Vicharanshi Sadharmya” (Research paper) Souvenir – 27th Maratha Economic Association, 23rd to 25th Nov. 2003.
7. Jadhav B. B. (Ed.) - RajarshiShri. Shahu Maharajanchi Bhashane, Rajarshi Prakashan, Kolhapur, 1971.
8. Jadhav Ramesh – LokrajaShahuChhatrapati, Suresh Agency. Kolhapur 1997.
9. JadhavNivas B. – “RajarshiShahuPreritKamgarSanghatanaChalwal” (Research Paper), Souvenir – 27th Marathi Economic Association, 23rd to 25th Nov. 2003.
10. KeerDhananjay - Preshit Rajarshi Shri Shahu Chh.,Shivaji University, Kolhapur, 1970.
11. KeerDhananjay – Rajarshi Shahu Chhatrapati – Ek Samaj kranti karak Raja, Popular Prakashan, Mumbai, 1979.
12. KeerDhananjay – Rajarshi Shahu Chhatrapati, Popular Prakashan, Mumbai, 2001. (First Edition 1979).
13. KeerDhananjay – Shri Shahu Smarak Vyakhyanmala, ShivajiVidyapeeth, Kolhapur, 1970.
14. Khane B.D. – Shri. Shahu : A Study of Socio Political Reforms (1884-1922), Ph.D. Thesis (unpublished), Shivaji University, Kolhapur, 1978, (p.144).
15. Kulkarni Meena and Kulkarni B. S. – Shri Shahu Chhatrapatinche Arthkaran, Gauri-Nandan Publication, Kolhapur. 1975.
16. Latthe A. B. – Shri. Ma cchatrapati Shahu Maharaj Yanche Charitra, Publisher R.R.B.L. Patil, Kolhapur, 1925.
17. Latthe A. B. “Memories of His Highness – Shri Shahu Chhatrapati Maharaj of Kolhapur” – Volume I & II, Time Press, Bombay, 1924.
18. Mhopare R. S. – “A Study of Income and Expenditure of The Kolhapur State (1894 A.D to 1922 A.D.)”, Minor Research Project submitted to U.G.C, May, 2017.
19. Mhopare R.S. and Patil J. F. – “Economic Policies and Programmes of Rajarshi Chh. Shahu Maharaj”, Shivaji University, Kolhapurr, (2008).
20. More Girish- “Rajarshi Shahu: Vichar Va Karya” Publication, Nirmitti Sanvad Pvt Ltd, Kolhapur, 2013, ISBN- 978-93-82028-22-2
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DSE 40 - COMPUTER APPLICATION IN ECONOMICS – II

PREAMBLE:

Economics being an empirical science, computers have emerged as the pivotal instruments of economic analysis, research and forecasting. Therefore, the students 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.

Unit 1: Data Processing Concepts (15 Periods)

- 1.1. Data and Information: Meaning, Types, Data Storage Hierarchy; Data base Concepts
- 1.2. Data base Management System, Data Base Structuring Techniques, Advantages and Limitations of Database System
- 1.3 Information Technology in Business: Internet-Intranet-Extranet LAN- MANWAN, WWW and E-mail
- 1.4. Use of Internet and Search Engines in Research

Unit 2: Text Processing and Spreadsheet Software (15 Periods)

- 2.1. Introduction to Text Processing
- 2.2. Word Processor : Meaning, Uses and Advantages; Popular Word Processing Packages; Features of a Good Word Processor; MS-Word: Getting Started, Creating and Saving a document, Editing, Page Setting and Formatting the text and Printing the Document.
- 2.3. Spreadsheet Software: Meaning, overview and application areas; Features of MS-Excel: Entering Information; Saving workbooks and Formatting; Creating Graphs; Printing Worksheets and Graphs
- 2.4. SPSS: Data Entry, Define variable, Frequency Distribution, Cross tabulation

Unit 3: Correlation and Regression (15 Periods)

- 3.1. Correlation Analysis: Meaning, Concept and Types
- 3.2. Measurement of Correlation: (i) Karl Pearson's Coefficient of Correlation (ii) Spearman's Rank Coefficient of Correlation
- 3.3. Regression Analysis: Types of regression, two lines of Regression Equations- Forecasting
- 3.4. Multiple Linear regression –Forecasting

Unit 4: Time Series Analysis (15 Periods)

- 4.1. Time Series Analysis: Meaning, Concept and Utility
- 4.2. Components of Time Series
- 4.3. Measurement of trend and Forecasting: Free hand / Graphic Method, Semi- Average Method
- 4.4. Measurement of trend and Forecasting: Moving Average Method and Method of Least Square-fitting a straight line trend

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DSE- 41 ECONOMICS AND LAW

PREAMBLE:

In order to understand the basic tools and methods of economic analysis both at the micro and macro levels, it is imperative to understand the basic provisions of law relating to consumer activities, business organization, land property, custom duties and direct foreign investment. However, economists have often taken for granted the various legal provisions which affect the economic behaviour which is not true. In order to meet this requirement, this course is essential and has been designed in a way that the students of economics would be able to comprehend the basic economic issues affecting the economy along with the related legal provisions. This would enable the economists to frame their models that are closer to reality, besides making them understand the consequences of legal rules, primarily as an exercise in applied microeconomics, macroeconomics, agricultural economics, industrial and international economics with practical and empirical evidences.

UNIT I: Introduction to Law and Economics: (15 Periods)

1.1: Interlinking of Law and Economic Activities, Importance of Laws and Rules, Introduction to legal reasoning; Role of courts and lawyers as social engineers

1.2: Nature of a Legal Disputes, Legal Framework and Legal Institutions for Dispute Resolutions.

1.3: Welfare economics; Compensation principles; Social welfare function; Maximization problem;

1.4: Nature of economic reasoning; Economic approach to law – History and criticism.

UNIT II: Laws Relating to Consumer Activities: (15 Periods)

2.1: Bargain theory; Economic role of contract; Economic theory of contract; Remedies as incentives, formation, defences and performance excuses.

2.2: Duress; Bargaining power and unconscious ability;

2.3: Defining tort law, economics of tort liability; tort liability and economic models;

2.4: Economics of accidents, fault, victim; fault and strict liability; Function of damages; Consumer protection; Consumer courts.

UNIT III: Laws related to Business and Land Property: (15 Periods)

3.1: Legal Provisions Relating to Business firm – Sole Ownership, Partnership, Holding Company, Corporations, Cooperative firm, Economics of mergers, Amalgamations and takeovers;

3.2: Business Laws : Company Act 2013, The Partnership Act of 1932, MRTTP Act 1970, The Industrial Disputes Act of 1946, Standards of Weights & Measures Act of 1956,

3.3: Laws Relating to Land Property- Land Acquisition and Fair Pricing Issues, Land Acquisition-Rehabilitation and Resettlement.

3.4: The Urban Land (Ceiling & Regulation) Act, 1976, Real Estate (Regulation and Development) Act, 2016

UNIT IV: Economic Theory of Criminal Law and International Aspects (15 Periods)

4.1: Economic theory of crime and punishment; Efficient punishment; Efficacy of capital sentence; Addictive drugs and crime; Plea bargaining; Reforms of criminal procedure and utility Thesis;

4.2: Law Relating to Economic Offences; Corruption and Human Rights, Cyber Crime and National Cyber Security Policy-2013

4.3: GATT/WTO – TRIPS and TRIMS; Export-import policy; Custom Duties;

4.4: MNCs and Direct Foreign Investment; FEMA.

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- 1) Bouckaert, B. and G. De Geest (Ed.) (1999), Encyclopedia of Law and Economics, (Volume I to V), Edward Elgar Publishing Ltd., U. K.
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- 23) Polinsky, M. A. and S. Shavell (1998), Punitive Damages: An Economic Analysis, Harvard Law Review, Vol. 111.

DSE-42 Econometrics II

PREAMBLE:

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 course covers various econometric methods those needed for applied economics and applied economic research.

Unit 1: Violations of Classical Assumptions (15 Periods)

- 1.1. Multicollinearity: Nature, Sources, Consequences Detection and Remedial measures
- 1.2. Heteroscedasticity: Nature, Reasons, Consequences, Detection and Remedial measures
- 1.3 Autocorrelation: Nature, Reasons, Consequences and Remedial measures
- 1.4. Problem of specification errors

Unit 2: Dynamic Econometric Models (15 Periods)

- 2.1. Distributed Lag Models and Autoregressive Models
- 2.2. Lags: Nature and Reasons
- 2.3. Koyck Approach to Distributed- Lag Models and its rationalization
- 2.4. Method of Instrumental Variables (IV), Almon's Approach to Distributed- Lag Models

Unit 3: Simultaneous Equation Models (15 Periods)

- 3.1. Simultaneous Equation Bias and Inconsistency of Ordinary Least Squares estimators
- 3.2. Structural and reduced form of simultaneous equation models
- 3.3. Identification problem, order and rank conditions of identification
- 3.4. Methods of estimating simultaneous equation system – recursive method and OLS, Indirect least squares (ILS), 2SLS methods

Unit 4: Time Series Econometrics (15 Periods)

- 4.1. Stochastic Processes: Stationary, Non-stationary and Unit root
- 4.2. Stochastic Processes: Trend Stationary, Difference Stationary and Integrated
- 4.3. Spurious Regression, Tests of stationarity, Cointegration
- 4.4. Forecasting –AR, MA, ARMA, ARIMA, VAR models and Box-Jenkin's methodology

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