



**SHIVAJI UNIVERSITY, KOLHAPUR**  
**YASHAWANTRAO CHAVAN SCHOOL OF RURAL**  
**DEVELOPMENT**



**SYLLABUS**

**MASTER OF RURAL STUDIES (MRS)**  
**Part I (Semester I and II)**

**Choice Based Credit System (CBCS)**  
**(Introduced from June 2017 onwards)**

**Choice Based Credit System – (CBCS)**  
**(Introduced from June 2017 and Onwards)**

To be implemented from the academic year 2017-2018 onward

**1. TITLE: Master of Rural Studies (MRS)**

**2. YEAR OF IMPLEMENTATION:-**

Under the YCSRSD, a new syllabus on **Master of Rural Studies (MRS)** is implemented from, the academic year 2017-18 onwards in the Shivaji University, Kolhapur.

**3. PREAMBLE:**

Rural development needs an integration of all areas of knowledge. It needs multi-disciplinary approach towards the rural development ideology. The YCSRSD is committed to empower the youth for rural development by catering to the needs of the rural development. It will integrate all local institutions, industries and organizations in the vicinity for the universal coordination of knowledge for overall rural development.

The YCSRSD is established in the Shivaji University campus as one of the autonomous (proposed phase) schools for conducting academic, research, training and extension activities associated with the rural development and rural management. It is a multi-disciplinary school covering all disciplines of science, technology, social sciences, agricultural sciences, trade and managerial subjects.

**4. GENERAL OBJECTIVES OF THE COURSE:**

After successful completion of this Academic Programme students will be able to:

1. Critically understand the social system, ideologies, methodologies, and rural development in various settings, along with values, ethical principles, and evidence-based practices of rural development
2. To strengthen the theoretical understanding, expand knowledge-base, inculcate relevant values, attitudes and skills required for rural development through the theory and practical component of the Academic Programme.
3. Develop interdisciplinary and specialized professional outlook, upheld the dignity and esteem of the rural development and achieve self-actualization.
4. Employ participatory, action and evidence-based practices in the field settings.
5. Engage the system through collective action and demand-driven approach to ensure social justice and equity to the marginalized, vulnerable and weaker- sections of society.
6. Understand and design effective strategies to evaluate and monitor progress over time in

development and change action that are appropriate for specific interventions and for various target groups.

7. To acquire skills to work in rural industries, State and Central Government Departments, rural development sponsored research and action - oriented projects undertaken by National and International Agencies.

## **5. DURATION**

- The course shall be a Post-Graduate Full Time Course
- The duration of course shall be of Two years /Four Semesters.

## **6. PATTERN:**

The pattern of examination will be Semester with Credit and Continuous Internal Evaluation (CIE).

## **7. ADMISSION PROCESS:**

Admission process of the course is through the entrance test conducted by the University.

- i. Entrance Examination fee shall as per the University rules and regulations determined from time to time.
- ii. Syllabus for the Entrance Test:

There shall be a separate entrance test for Master of Rural Studies (MRS) / programme of the YCSR, which will be conducted by the University in the Month of May/June of the academic year.

The syllabi for the course programme shall consist of the following areas.

Section A) - General Knowledge and Aptitude, for 25 marks. (Multiple Choice Questions i.e. MCQs)

Section B) - General Communication in English and Knowledge of Soft Skills, for 25 marks. (MCQs)

Section C) - Course Specific Subject Knowledge, for 50 marks. (MCQs)

Section (C) of the entrance test belongs to testing of the subject knowledge consisting of the following topics

### **Syllabus for Section (C) of Entrance Test: for 50 Marks**

1	Indian Rural Economy, Rural Demography
2	Agencies and organisations of Rural development in India
3	Government Schemes/Programmes for Rural development in India
4	Basic Knowledge about Indian agriculture
5	Role of Co-operatives in Rural Development

A final merit list of all the students shall be notified on the Shivaji University Website before the actual admission rounds. The information relating to all the admission rounds shall be notified on the Shivaji University Website.

#### **8. Admission Committee:**

The composition for Admission Committee to the **Master of Rural Studies (MRS)** will be as under:

1. Director, YCSR, Chairman:
2. Coordinator of **Master of Rural Studies (MRS)** Course:
3. One Senior Professor in the **Master of Rural Studies (MRS)** Course.
4. One Senior Associate Professor in the **Master of Rural Studies (MRS)** Course.
5. One Assistant Professor from Backward Community.

It will be the final authority.

#### **9. Merit list for admission rounds:**

Merit list will be prepared on the basis of written test and aggregate marks obtained by the candidate in the Bachelor's degree. In case there are two or more candidates with the equal marks in entrance Test, the total marks obtained by these students in the Bachelor's degree examination (qualifying examination) shall be considered. Even after this, if the students continued to obtain equal position/ merit then the marks obtained by the students in the subjects excluding English and other language shall be considered. Even after this, if the students continued to obtain the same merits/ marks, the marks scored in the English language shall be considered. If the tie continues, then considering the age of student from date of birth elder student will be considered.

#### **10. Reservation :**

Intake Capacity of Master of Rural Studies (MRS) Course and Reservation quota for admission will be as per the rules of the State Government of Maharashtra and Shivaji University, Kolhapur

#### **11. Eligibility:**

- i] Candidates who have passed any Bachelor's degree [10+2+3] of any statutory University recognized equivalent thereto, must have obtained minimum aggregate 50 per cent marks (for reserved categories minimum 45 per cent marks).
- iii) He/ She should have passed the Entrance Test conducted by the Shivaji University with the specified criteria.

#### **12. MEDIUM OF INSTRUCTION:**

The medium of instruction shall be in English.

### 13. STRUCTURE OF MASTER OF RURAL STUDIES (MRS) COURSE AND SCHEME OF EXAMINATION

#### STRUCTURE OF COURSE FROM 2017-18

Paper Number	Title of the Paper	Total Marks
	<b>Semester - I[First Year]</b>	
MRS 1.1	Introduction to Rural Development	80+20=100
MRS 1.2	Economic Analysis for Rural Management	80+20=100
MRS 1.3	Quantitative Methods for Rural Development	80+20=100
MRS 1.4	Financial, Cost and Management Accounting	80+20=100
MRS 1.5	Rural Livelihood Systems	80+20=100
MRS 1.6	Cooperatives and Rural Development	80+20=100
MRS 1.7	Introduction to Bioeconomics ( Open Elective)	80+20=100
	<b>Semester - II[First Year]</b>	
MRS 2.1	Economic Environment and Policy	80+20=100
MRS 2.2	Research Methodology	80+20=100
MRS 2.3	Computer Applications for Rural Studies	50+ 50=100
MRS 2.4	Risk Management & Rural Insurance	80+20=100
MRS 2.5	Rural Development Programmes and Policies	80+20=100
MRS 2.6	Resource Economics	80+20=100
MRS 2.7	Basic Econometrics (Open Elective)	80+20=100

Total contact hours shall 60 hours per paper. Each paper shall have four units of 15 contact hours each including practical. There is no CIE for paper MRS 2.3.

#### **14. SCHEME OF EXAMINATION SEMESTER WITH CIE AND CREDIT SYSTEM**

**1. NUMBER OF THEORY PAPERS AND PRACTICAL PAPERS:**

The Entire MRS Course shall have 28 theory papers each carrying 100 marks and Project Report and Viva Voce of 200 marks.

- Paper MRS 2.3 (i.e. Computer Applications for Rural Development) will have theory paper exam of 50 marks and practical exam of 50 marks.
- The entire MRS examination shall be of 3000 total marks.
- Each paper carries 4 credits totaling  $30 \times 4 = 120$  credits.

**2. SEMESTER EXAMINATION:**

The system of examination would be Semester with credit system and Continuous Internal Evaluation (CIE). The examination shall be conducted at the end of each semester.

**3. CIE COMPONENT:**

There shall be a written test/ seminar / assignment / case study / mini project / industrial visit/Field Visit report for each theory paper in each semester. The total CIE Component carries 20 Marks for each theory paper. However, this condition is not applicable to Paper S1.8 (i.e. Computer Applications for Rural development) and Paper S4.8 (Project Report and Viva Voce).

**4. CIE - Re-examination:**

If, due to any unforeseen or unpredictable event, any of the students fails to appear for the CIE examination, or fails in the CIE, the re-CIE examination for such students can be held during the same Semester.

**5. SEMESTER-Re-Examination:**

In case candidates fail in any of the papers in any semester examination, they can appear for the re-examination in the subsequent semester.

**6. The ATKT rules framed by the University apply to the course.**

#### **15. Standard of Passing:**

- 1) To pass, 40% marks in theory paper, CIE and project are required.
- 2) In every paper a candidate should obtain a minimum of 40% of total marks i.e. 32 marks out of 80 marks.
- 3) For every CIE component, a candidate should obtain a minimum of 40% of the total marks, i.e. 08 out of 20 marks.
- 4) A candidate must obtain minimum marks as mentioned above in both the Heads of Passing. In other words, he/she must pass in both the Semester examination as well as CIE examination.
- 5) The other details regarding standard of passing, credits, Grade-points and Grades have been given under Credit System.

- 6) For project, a candidate should obtain a minimum of 40% in both Term work and Practical, i.e. Minimum 60 marks out of 150 marks in Term work (Project report) and minimum 20 marks out of 50 marks in Practical (Viva Voce Exam).

## 16. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:-

For Theory papers the format will be as given below\*:

There shall be four sections in each theory question paper as indicated below:

Instructions to the candidates-

- (1) All questions are compulsory.
- (2) Figures to the right indicate marks.

**Section A:** 10 Questions to answer in one/two sentence/s. each carried 2 marks. - 20 Marks.

**Section B:** Short Notes (any four out of six). Each question carries 5 marks. - 20 Marks.

**Section C:** Short answer type questions (any two out of three). Each question carries 10 Marks. - 20 Marks

**Section D:** Descriptive answer type question with internal option. Each Question carries 20 marks. - 20 Marks

For Paper MRS 1.4, the format will be as given below:

Instructions to the candidates-

- (1) Q. No. 1 and 5 are compulsory.
- (2) Attempt any two questions from Q. No. 2, 3 and 4.
- (3) Figures to the right indicate marks.

Q.N.1: Case Study / Descriptive Questions	- 20 marks
Q.N.2: A) Long answer type question	- 10 marks
B) Long answer type question	- 10 marks
Q.N.3: A) Long answer type question	- 10 marks
B) Long answer type question	- 10 marks
Q.N.4: A) Long answer type question	- 10 marks
B) Long answer type question	- 10 marks
Q.N.5: Write short notes (any four out of five /six)	- 20 marks

For Paper MRS 2.3, the format will be as given below:

Instructions to the candidates-

- (1) All questions are compulsory.
- (2) Figures to the right indicate marks.

Q.N.1: Descriptive Questions	- 20 marks
Q.N.2: A) Long answer type question	- 10 marks

OR

- |  |            |
|--|------------|
| B) Long answer type question                           | - 10 marks |
| OR   |            |
| C) Long answer type question                           | - 10 marks |
| Q.N.3: Write short notes (any two out of three / four) | - 10 marks |

\*For papers (MRS 1.1, MRS 1.2, MRS 1.3, MRS 1.4, MRS 2.1, MRS 2.2, Practical component of MRS 2.3 and MRS 3.1) the conduct of examinations, assessments and results shall be as set by YCSRSD, Shivaji University.

The faculty teaching various courses will make use of OHP. T.V., L.C.D. / L.E.D and Computers / Internet wherever necessary. The equipments are available in the Department. Computer Lab with Internet connection to all and SPSS software will be made available in the School.



**Semester I**  
**Master of Rural Studies (MRS) - Part – I, Semester I**  
**MRS 1.1 Introduction to Rural Development**

**Objectives:**

- 1) To understand multidimensions of rural development.
- 2) To understand the basic concepts of Rural Development.

<b>MRS 1.1 Introduction to Rural Development</b>		
Marks 100: 80 (External) + 20 (Internal)		Total Hours of Teaching: 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Rural Development:-</b> Concept, Objectives, Importance, Nature and Scope; Characteristics of Rural Economy; Concept of Development, Distinction between Development and Growth, Indicators of Development; Prerequisites for Rural Development; Main Obstacles to Rural Development; Factors Governing Rural Development.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Rural Management:</b> Nature, Scope and challenges of marketing, operations, human resources, finance in rural area. Entrepreneurial opportunities in Rural area. Agriculture Business Management – Scope and Challenges.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Rural Community Development:</b> Concept of Community, Functions of the Community, Community profile: Process and tool Concept of community development, Characteristics, Principles and Scope, Panchayati Raj and community development in India	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Sustainable Development:</b> Biodiversity and its conservation, Environmental pollution: Air, Water and Soil pollution, Solid Waste Management, Social issues and Environment, Climate Change, Global warming, Ozone layer depletion, Carbon Credit, water conservation, rain water harvesting, watershed management.	<b>15 Hours</b>
Reference Books:		
<ol style="list-style-type: none"> <li>1) Desai Vasant, “Fundamentals of Rural Development”, New Delhi: Rawat Publications, 1991.</li> <li>2) Environmental Impact Assessment – Canter.</li> <li>3) Environmental Sanitation – Salvador.</li> <li>4) Katar Singh “Rural Development: Principles, Policies and Management”, (Sage Texts) 3rd Edition</li> <li>5) Manual on municipal solid waste management – Govt. of India Publication</li> <li>6) Meenu Jain, “Rural Development Programmes in India”.</li> <li>7) Municipal Sanitation – Ethers and Steel</li> <li>8) Nelson Nemerow “Theories and Practices of Industrial waste treatment”.</li> </ol>		

- 9) Prasad, B.K. , “Rural Development: Concept, Approach and Strategy”, New Delhi: Sarup & Sons, 2003.
- 10) R.K. Lekhi, “The Economics of Development and Planning”, Kalyani Publishers, New Delhi.
- 11) S. D. Chamola and Bharati Anirudh, “Agriculture and Rural Development in India”, Global Vision Publishing House.
- 12) Satya Sundaram, I., “Rural Development” Mumbai: Himalaya, 2002.

## **MRS 1.2 Economic Analysis for Rural Management**

### **Objectives:-**

- 1) To understand the basic concepts of Economics.
- 2) To understand the application of economic concept with reference to rural management.

<b>MRS 1.2 Economic Analysis for Rural Management</b>		
Marks 100: 80 (External) + 20 (Internal)		Total Hours of Teaching: 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Consumer Behaviour and Demand Analysis</b> 1.1: Introduction- Basic Economic Problems, Inductive and Deductive Methods 1.2: Consumer Behaviour- Cardinal and Ordinal Utility Analysis, Law of Diminishing Marginal Utility, Law of Equi-marginal Utility, Indifference Curve, Consumers Equilibrium, Income and Substitution Effects, Social Impact. 1.3: Law of Demand, Demand Function, Determinants of Demand. Elasticity of Demand and factors affecting, Types, Methods of Measurement. 1.4: Demand Forecasting- Types, Importance and Methods of Measurement of Demand Forecasting. 1.5: Practical and Applications- Related Case Studies and Reports.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Theory of Production, Cost and Revenue Analysis</b> 2.1: Production Function - Law of Variable Proportions, Law of Returns to Scale, Optimum Factor Combination. Isoquants – Properties, Producers equilibrium. 2.2: Cost Concepts – Types of Costs and cost curves, Traditional and Modern Theories of Costs. 2.3: Economies of Scale and Economies of Scope, Supply Curve and its Elasticity. 2.4: Revenue concepts – Average, Marginal and Total Revenue, revenue curves under different market conditions. 2.5: Practical and Applications- Related Case Studies and Reports.	<b>15 Hours</b>

<b>Unit 3:</b>	<b>Price and Output determination under different Market Structures</b> 3.1: Perfect Competition – Features, Price and Output Determination. 3.2: Monopoly – Features, Price and Output Determination, Price Discrimination. Monopolistic Competition - Features, Price and Output Determination, Excess Capacity, Equilibrium of the firm and group with product differentiation and selling cost. 3.3: Oligopoly - Price and output determination – Non Collusive: Kinked demand curve and price rigidity, Collusive: Price leadership and Cartels. 3.4: Pricing Practices 3.5: Practical and Applications- Related Case Studies and Reports.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Factor Pricing and Investment Decisions</b> 4.1: Marginal Productivity Theory, Pricing of Factors in Competitive and Imperfectly Competitive Markets. Trade Unions and Wages. 4.2: Rent – Recardian Theory of Rent- Scarcity Rent and Differential Rent, Modern Theory of Rent, Quasi Rent. 4.3: Interest – Classical Theory of Interest, Liquidity Preference Theory and Loanable Fund Theory of Interest. 4.4: Profit – Innovation Theory, Dynamic Theory, Risk and Uncertainty Theory and Monopoly Theory of Profit. Capital Budgeting- Basic Concepts and Investment Decisions under uncertainty. 4.5: Practical and Applications- Related Case Studies and Reports.	<b>15 Hours</b>
Reference Books: 1. D.N.Divedi, “Managerial Economics”, Vikas New Delhi. 2. Dominick Salvatore, “Principles of Microeconomics”, Oxford University Press 5th edition. 3. H.L. Ahuja, “Advanced Economic Theory”, S. Chand Publication, New Delhi. 4. Koutsoyiannis, “Modern Microeconomics”, Macmillan Press Ltd. 5. M.L. Jhingan, “Principles of Economics” (Hindi and English), Vikas, New Delhi. 6. M.L.Seth, “Principles of Economics” (Hindi and English), Laxmi Narayan, Agra. 7. Misra S.K. and V.K. Puri (2001), “Advanced Microeconomic Theory”, Himalay Publishing House, New Delhi. 8. Sen, A.(1999), “Micro Economics: Theory and Applications”, Oxford University Press, New Delhi. 9. Stigler, G (1996), “Theory of Price”, Prentice Hall of India, New Delhi. 10. William J. Baumol and Alan H. Blindr, “Microeconomics-Principle and Policy”, 9th edition.		

## MRS 1.3 Quantitative Methods for Rural Development

### Objectives:

1. To introduce the basic concepts of statistics.
2. To highlight the use of statistical techniques in rural studies.

MRS 1.3 Quantitative Methods for Rural Development		
Marks 100: 80 (External) + 20 (Internal)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Introduction (Types, Collection and Presentation of Data)</b> 1.1: Meaning of the word Statistics. Scope of Statistics: in Industry, Management and Social Sciences. 1.2: Types of Data: Primary and Secondary 1.3: Classification of data: Discrete and continuous frequency distribution, inclusive and exclusive methods of classification, Tabulation of statistical data. 1.4: Graphical presentation of data: Bar Charts, Pie Chart, Line Chart, Histogram, ogive curves. 1.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Measures of Central Tendency</b> 2.1: Concept of measures of central tendency, Requirements of good statistical average. 2.2: Arithmetic Mean (A.M): Definition, Effect of change of origin and scale. 2.3: Median and Mode: Definition, Effect of change of origin and scale. 2.4: Empirical relation between Mean, Median and Mode. 2.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Measures of Dispersion</b> 3.1: Concept of dispersion, Absolute and Relative measures of dispersion, Requirements of a good measure of dispersion. 3.2: Range: Definition, Coefficient of range. 3.3: Quartile Deviation (Semi-interquartile range): Definition, Coefficient of Q.D. Mean Deviation: Definition, Coefficient of M.D., Minimal property of M.D. 3.4: Standard Deviation: Definition, Effect of change of origin and scale, Variance, Coefficient of Variation: Definition and use. 3.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Correlation and Regression</b> 4.1: Concept of correlation between two variables, Types of correlation, Scatter diagram, its utility. 4.2: Karl Pearson's coefficient of correlation (r): Definition, Computation for Ungrouped, Interpretation when $r = -1, 0, 1$ . Properties (without proof):	<b>15 Hours</b>

	<p>i) <math>-1 \leq r \leq 1</math>  ii) Effect of change of origin and scale.  4.3: Spearman's rank correlation coefficient: Definition, Computation (for with and without ties).  Illustrative examples.  4.4: Concept of regression, Equations of lines of regression, Regression coefficients (<math>b_{xy}</math>, <math>b_{yx}</math>),  Properties (without proof):  i) <math>b_{xy} \times b_{yx} = r^2</math>,  ii) <math>b_{xy} \times b_{yx} \leq 1</math>,  iii) <math>(b_{xy} + b_{yx}) / 2 \geq r</math>,  iv) The point of intersection of two regression lines.  4.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.</p>	
<p>Reference Books:</p> <ol style="list-style-type: none"> <li>1. Gupta S. C., "Fundamentals of Statistics", Himalaya Publishing House.</li> <li>2. Gupta S. P. (2002), "Statistical Methods", Sultan Chand and Sons, New Delhi.</li> <li>3. Gupta S. C. and Kapoor V. K., "Fundamentals of Mathematical Statistics".</li> <li>4. Bhat B. R., Srivenkatramana T. and Madhava Rao K. S. (1996), "Statistics: A Beginner's Text", Vol. 1, New Age International (P) Ltd.</li> <li>5. Goon A.M., Gupta M.K., and Dasgupta B., "Fundamentals of Statistics", Vol. I, and II, World Press, Calcutta.</li> <li>6. R. P. Hooda, "Statistics for Business and Economics", Vikas Publishing, 5<sup>th</sup> Edition.</li> <li>7. J. K. Sharma, "Business Statistics", Vikas Publishing.</li> </ol>		

## MRS 1.4 Financial, Cost and Management Accounting

### Objectives:-

1. To understand the basic concepts of financial and cost accounting.
2. To apply management accounting concepts for managerial decision making.

MRS 1.4 Financial, Cost and Management Accounting		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<p><b>Financial Accounting</b>  1.1 Definition, Concepts and Conventions, Objectives, Branches, Scope and Limitations of Financial Accounting.  1.2 Preparation of Journal, Ledger, Trial Balance  1.3 Trading and Profit and Loss account and Balance Sheet.  1.4 Introduction to Accounting standards.  1.5 Practical and Application: Develop specimen vouchers and record the transactions accordingly by passing journal entry and consequently posting the same into ledger and finally come out with income statement and balance sheet.</p>	<b>15 Hours</b>

<b>Unit 2:</b>	<b>Accounting for Non-trading Organizations</b> 2.1 Receipt and Expenditure Account 2.2 Accounting for NGOs 2.3 Accounting for Cooperatives and Small Rural Enterprises 2.4 Introduction to farm accounting 2.5 Practical and Application: Visit any Non- Trading Organizations unit to identify Receipt and Expenditure of the organizations. To prepare farm accounts by visiting farm or green house.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Cost Accounting for Rural Enterprises</b> 3.1 Introduction, Meaning, Scope and Advantages of Cost Accounting. 3.2 Classification of Costs and Elements of Cost 3.3 Cost unit and cost center 3.4 Preparation of Cost Sheet 3.5 Practical and Application: Visit any agri-enterprise to identify elements of cost, Prepare cost sheet.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Management Accounting and Decision Techniques</b> 4.1 Introduction, Meaning, Nature, Scope and Limitations of Management Accounting. 4.2 Distinction among Financial, Cost and Management Accounting. 4.3 Marginal Costing and CVP Analysis – Profit Volume Ratio, Break Even Analysis, Margin of Safety, Angle of Incidence. 4.4 Decision Making with key factor. 4.5 Visit any rural enterprise, collect information regarding variable cost, fixed cost etc. and calculate Breakeven Point for products.	<b>15 Hours</b>
<b>Reference Books:</b> <ol style="list-style-type: none"> <li>1) A.A. Ansari, “Cooperative Management Pattern”</li> <li>2) B.B. Goel, “Cooperative Management and Administration”</li> <li>3) Gupta and Radhaswamy, “Advanced Accountancy”</li> <li>4) Indian Journal of Rural Management : Sage Publications</li> <li>5) Jain and Narang, “Advanced Accountancy”</li> <li>6) Jawahar Lal, “Cost Accounting”</li> <li>7) Journal of Cooperative Studies :U.K. Society of Cooperative Studies</li> <li>8) M.E. ThukaramRao, “Accounting for Managers”</li> <li>9) M.N. Arora, “Cost Accounting”</li> <li>10) Management Accountant : Journal of ICWAI</li> <li>11) Manmohan Goel, “Management Accounting”</li> <li>12) Shukla and Grewal, “Advanced Accountancy”.</li> <li>13) The Chartered Accountant : Journal of the ICAI</li> </ol>		

## MRS 1.5 Rural Livelihood System

### Objectives:

- 1) To understand the present status of natural resources and its importance in rural development.
- 2) To study the importance of rural infrastructure, finance and labour.

MRS 1.5 Rural Livelihood System		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Introduction to Rural Resources</b> 1.1: Concept and definition of rural livelihood, Indicators of rural livelihood, Rural Resources - land, soil, climate, water and forests. 1.2: Production Systems - Agriculture, Horticulture, Floriculture, Sericulture, Forestry; 1.3: Agriculture– Importance in Indian Economy, Productivity, Changing land use and cropping pattern, Green Revolution- Problems. 1.4: Non farm Activities – Traditional and innovative techniques. 1.5: Practical and Applications – Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Rural Labour Market</b> 2.1: Features of Demographic Dynamics of India. 2.2: Poverty and Inequality - types, measurement, nature and dimensions in India. 2.3: Unemployment - nature, extent and trends. Rural Labour Supply - mobility of labour and segmentation in labour markets. 2.4: Agricultural wages and its Disparities, Non agricultural rural employment- trends and determinants,. 2.5: Practical and Applications – Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Rural Finance and Markets</b> 3.1: Institutional and non Institutional Sources of Finance, Rural indebtedness - Causes and Effects. 3.2: Role of NABARD, RRBs, Microfinance and Digital Banking. 3.3: Role of Rural Marketing pros and cons 3.4: Government programmes and institutions in marketing. 3.5: Practical and Applications – Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Rural Infrastructure</b> 4.1: Concept and role of rural infrastructure, Social Infrastructure – Education and Health; Recent Trends and Policies. 4.2: Transport and Communication - Role in Economic Development. 4.3: Energy - Conventional and Non-Conventional sources of Energy. 4.4: Irrigation and Water Management – Policies and Programmes, Progress and Problems, Potable and non potable Water. 4.5: Practical and Applications – Related Case studies and Reports.	<b>15 Hours</b>
<b>References:</b>		
1) Agarwal A.N. and Kundan K.L, “Agricultural Problems of India”, Vikas Publication House, New Delhi. 2) Datt and Sundaram (2008), “Indian Economy”, S. Chand & Company, New Delhi.		

- 3) Hohn W. Penson, Oral Capps, C. Parr Rosson, (1999), "Introduction to Agricultural Economics", Prentice Hall, New Jersey.
- 4) Khusro A.M. (1968), "Leading issues in Agricultural Development", Allied Publishers, Bombay.
- 5) Mishra and Puri, (2008), "Indian Economy" Himalaya Publishing House, New Delhi.
- 6) Papola T.S. (1982), "Rural Industrialization in India", Himalaya Pub. House, Delhi.
- 7) Vaidhanathan A. (1995), "The Indian Economy: Crisis, Response and Prospects", Orient Lognmans, New Delhi.
- 8) Wanmali S, and C, Ramasamy (Edn) (1995), "Developing Rural Infrastructure", McMillan, New Delhi.

### **MRS 1.6 Cooperatives and Rural Development**

#### **Objectives:**

- 1) To study the Governance and administration of co-operative organization.
- 2) To study the importance of co-operative institutions.

<b>MRS 1.6 Cooperatives and Rural Development</b>		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Principles and Practices of Co-operation</b> 1.1: Cooperation: Definition, Nature, Scope, Features, Co-operation and Capitalism, Co-operation and Socialism. 1.2: Cooperative Principles- Scheultze Delitsche and Raiffeisen, ICA Principles. 1.3: Co-operative Thinkers - Robert Owen, Charles Fourier, Paul Lambert, Frederick Nicholson, D. R. Gadgil and Vaikunthbhai Mehta, Yashwantrao Chavan. 1.4: Practices of Co-operation in other countries - Germany, Britain, Denmark, Israel. 1.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Cooperative Governance</b> 2.1: Origin and History of cooperative Movement in India and Maharashtra. 2.2: Henry Fayol's General Principles of Management, Theories of Leadership, Qualities of Good Leadership. 2.3: Powers, functions and Role of Secretary/Managing Director, Board of Directors and Registrar 2.4: Professionalization of Co-operative Management, Types and procedure of General Body Meetings, Cooperative Education and Training. 2.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>



<b>Unit 3:</b>	<b>Credit and Non-Credit Co-operative Societies</b> 3.1: Structure and Functions of Short Term and Long Term Co-operative Credit Societies - SCB's, DCCB's, PAC's, SCARDB's and PCARDB's. 3.2: Urban Co-operative Banks- Organization, Functions and Problems. 3.3: Organization, Functions and Problems of Agricultural Co-operatives - Co-operative Processing, Co-operative Marketing, Co-Farming. 3.4: Organization, Functions and Problems of Non-Agricultural Co-operatives - Consumer Co-operatives, Housing Co-operatives, Labour Co-operatives, Fisheries Cooperatives. 3.5: Practical and Applications- Related Case Studies and Reports.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Co-operative Institutions and Commissions</b> 4.1: NABARD, NCUI, NCDC. 4.2: NCCF, NAFED, NDDB. 4.3: KVIC, IFFCO, KRIBHCO. 4.4: Important Committees on Cooperatives. 4.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>References:</b>		
1) Bedi, R. D., "Theory, History and Practice of Co-operation with reference to Cooperation in Foreign countries". 2) Dr. R. C. Dwivedi, (1997), "Co-operative Identity, Concept and Reality", M/S 3) Govt. of Maharashtra, Cooperative Movement at a Glance (Latest Annual 4) Hajela T.N.(2007), "Co-operation Principles Problems and Practice of Cooperation" Ane Books Private Ltd., New Delhi. 5) Jugale, V. B., Koli, P. A., "Reasserting the Co-operative Movement", Serials 6) Kamat, G. S., "New Dimensions in Cooperatives", Himalaya Publishing House 7) Mathur B.S. (1999), "Cooperation In India", Sahitya Bhavan Publications, Agra . Paramount Publishing House, New Delhi 8) Patil, J. F. & Patil, V. S., "Problems and Prospects of Co-operative Movement", Publications, New Delhi, (2005) 9) Ramkishan.Y (2003), "Management of Cooperatives" Jaico Publishing House, Mumbai 10) Report of High Powered Committee on Cooperatives (2009). Report). 11) Shivaji University, Kolhapur (2006).		

## MRS 1.7 Introduction to Bioeconomics

### Objectives:

- 1) To study and utilize various biological resources to enhance rural development.
- 2) To actually understand bio-economics by practical and field work.

MRS 1.7 Introduction to Bioeconomics		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Bioeconomics : Concept, Theories, Evolution and Development.</b> 1.1: Bio-economics – definitions, Concept and various theories. 1.2: Importance of Economics in Biosciences, Role of Agriculture. 1.3: Evolution and development of economics - Environments, One-Level, Multi-Level and Development. 1.4: Role of Neoclassical Economics in Ecology, The Hotelling model. 1.5: Practical and Applications- Related Case studies and Report.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Biological Adaptation and Biophysical Economics</b> 2.1: Biological adaptation in Human Societies - Problem of Measuring Adaptation, Basic Needs and adaptation ,job creation. 2.2: Indicators of Survival and Biological Adaptation, The social and psychological functions of responses to climate change. 2.3: Darwin's Theory of Bioeconomic Analysis, Interdependence between agriculture and industry. 2.4: Biophysical factors related to the agro-climatic conditions on the farm, physiological characteristics of crops and livestock, Industrial Ecology. 2.5 Practical and Applications- Related Case studies and Report.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Economics of Biodiversity, Aquaculture Fresh and Marine</b> 3.1: Biodiversity – Ecotourism, conservation and enhancement programmes, valuation, human wildlife interaction. Development of ecological garden - butterfly gardening, snake park. 3.2: Animal husbandry: cattle breeds, Goat and sheep breeds, Bee keeping, sericulture, lac worm. 3.3: Marine and fresh water bio economics: coastal, estuarine ecotourism, concept of marine parks, fishery and preservation techniques, bye products, setting of fish farms. 3.4: Concept of integrated farming: Commercial floriculture and Ornamental Gardening, Vermi compost and Boundary Plantations, Dog breeding (knennel club) 3.5: Practical and Applications- Related Case studies and Report.	<b>15 Hours</b>

<b>Unit 4:</b>	<b>Biopesticides, Bio-technology and sustainable development</b> 4.1: Manures and bio fertilizers: Advantages, Manures- bulky and concentrated, Farm Yard and poultry Manures; Composting methods, green manuring, oil cakes. Sewage and sludge-biogas plant slurry. 4.2: Insect Ecology and Integrated Pest Management, Present agriculture and pest problems. Beneficial insects, Important non-insect pests, Use of bio-control agents, bio-pesticides. 4.3: Plant conservation biotechnology, plant tissue culture - disease elimination, Environmental Biotechnology. 4.4: Cultivation of plants for ayurvedic, medicinal purpose, cultivation of spices and condiments. Concept, approach of Sustainable development. 4.5: Practical and Applications- Related Case studies and Report.	<b>15 Hours</b>
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**References:**

- 1) A. S. Atwal and G.S Dhaliwal, "Agricultural Pests of South Asia and Their Management" Kalyani Publishers, Ludhiana.
- 2) Ahluwalia I. J. (1985), "Industrial Growth in India- Stagnation Since Mid-Sixties", Oxford University Press.
- 3) B Singh, S K Gautam and M S Chauhan, "Textbook of animal biotechnology".
- 4) Barthwal R.R. (1985), "Industrial Economics", Wiley Eastern Ltd., New Delhi.
- 5) Bharadwaj K (1996), "Production Conditions in Indian Agriculture", Cambridge.
- 6) Cherunilam, F. (1994), "Industrial Economics : Indian Perspective" (3rd Edition), Himalaya Publishing House, Mumbai.
- 7) Desai, B. (1999), "Industrial Economics in India" (3rd Edition), Himalaya Publishing House, Mumbai.
- 8) Dewett Kewal (2005), "Indian Economy" C.Chand & Co. Ltd. New Delhi M.P.
- 9) G. C. Banerjee, "Textbook Of Animal Husbandry"
- 10) G. S. Dhaliwal and Ramesh Arora, "Principles of Insect Pest Management" National Agricultural Technology Information Centre, Ludhiana.
- 11) Handbook of Animal Husbandry Hardcover – 2015
- 12) Hanley, Shogren and White (1997), "Environmental Economics; In Theory and Practice", Macmillan India Limited, Delhi.
- 13) Hay and Morris D. J. (Latest), "Industrial Economics- Theory and Evidence", Oxford University Press.
- 14) I. Sunder, "Introduction to Bioeconomics", Serials Publication, New Delhi.
- 15) Igor Flor, 2005, "BIONOMICS. Analysis based on bioeconomic analogies", Chelyabinsk, Frigate, 380 p.
- 16) Jalandhar Datt R. & K.P.M. Sundharm (2013), "Indian Economy", S. Chand & Co. Ltd, New Delhi.
- 17) Jaypur Gulati & Kelley (1999), "Trade Liberalization of Indian Agriculture", Oxford University Press, London Papola.
- 18) John M. Hartwick, Nancy D. Olewiler, "THE ECONOMICS OF NATURAL RESOURCE USE" HARPER & ROW, PUBLISHERS, New York Cambridge, Philadelphia, San Francisco, London, Mexico City, Sao Paulo, Sydney.
- 19) Journal of Bionomics
- 20) K. G. Ramavat, "Plant Biotechnology", S.Chand Publications.

- 21) Michael L. Rothschild, "Bionomics: Economy As Ecosystem" Paperback Edition. April 1995.
- 22) Michael Rothschild, "Bionomics: Economy As Ecosystem".
- 23) Misra S.K. & V.K.Puri (2013), "Indian Economy", Himalaya Publication House Mumbai.
- 24) R.C. Saxena and R. C. Srivastava, "Entomology At a Glance", Agrotech Publishing Academy, Udaipur.
- 25) Review of Information Ecology by Thomas Davenport
- 26) Richard B. Selander's Bionomics, Systematics and Phylogeny of Lytta, a Genus of Blister Beetles (Coleoptera, Meloidae), Illinois Biological Monographs: number 28, 1960.
- 27) S.S.Bains and A.S. Atwal, "Applied Animal Ecology", Kalyani Publishers, Ludhiana.
- 28) Sathe T. V. , "Fundamentals of beekeeping"
- 29) Singh (2004), "Indian Economy Today", Problems Planning and Development. Deep and Deep Publication.
- 30) Singh Acharya, Sagar (2002), "Sustainable Agricultural Poverty and Food Securities" Vol. I & II, Rawat Publication.
- 31) T.S. (1982), "Rural Industrialization in India", Himalaya Publishing House, New Delhi
- 32) Vepa R. K. (1988), "Modern Small Industry in India", Sage Publications.
- 33) Vitamin B: Your Daily Dose of Bionomics (Archive)

## Master of Rural Studies (MRS) - Part – I, Semester II

### MRS 2.1 Economic Environment and Policy

#### Objectives:

1. To understand the basic concepts of macroeconomic variables.
2. To understand the importance of macroeconomic environment.

<b>MRS 2.1 Economic Environment and Policy</b>		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Introduction and Macroeconomic Variables</b> 1.1: Concepts of macroeconomics, Nature and Scope of Macroeconomics, Macroeconomic character of the Indian economy. Circular Flow of Income - Two Sector, Three Sector and Four Sector Open Economy. 1.2: National Income - Concepts, Components and Measurement of National Income. 1.3: National Income Accounting - Social Accounting, Input-Output Accounting, Flow of Funds Accounting, Balance of Payments Accounting. 1.4: Some basic Concepts: Equations, stocks and flows, transactions matrix, functional relationship, equilibrium- ex ante and ex post. 1.5: Practical and Applications – Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Macroeconomic Theory and Supply of Money</b> 2.1: Theory of Income and Employment- Classical Keynesian. 2.2: Consumption Function - Theories of Consumption - Keynesian and Post Keynesian Consumption Theories. Marginal Efficiency of Capital (MEC). Consumption and Investment Functions- applicability in developing economies. 2.3: Investment Multiplier, Leakages in the Multiplier Process and Importance of Multiplier. 2.4: Supply of Money - Measures and Determinants, Credit Creation Process. Demand for Money – Classical and Keynesian. IS-LM model. 2.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Inflation, Business Cycle and Economic Stabilization</b> 3.1: Inflation – Approaches, Types, Causes, Effects and Measures. 3.2: Business Cycle - Features and Phases of Business Cycles, Theories of Business Cycles 3.3: Macroeconomic Policies: Fiscal Policy and Monetary Policy - Objectives, Instruments. Relative Effectiveness of Fiscal Policy and Monetary Policy. 3.4: Phillips Curve, natural rate of unemployment hypothesis; adaptive	<b>15 Hours</b>

	expectations and rational expectations. 3.5: Practical and Applications- Related Case studies and Reports.	
<b>Unit 4:</b>	<b>Macroeconomics in Open Economy</b> 4.1: Balance of Payments - Meaning and Components. Exchange Rate - Meaning, Types and Theories. 4.2: Economic reforms and structural adjustment programmes, Washington consensus, Policies of LPG. 4.3: Foreign Investment and TNCs & MNCs. 4.4: International Organisations - WTO, IMF, IBRD, IDA, IFC. 4.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Reference Books:</b> <ol style="list-style-type: none"> <li>1. Ackley, G. (1978), "Macroeconomics: Theory and Policy", Macmillan, New York.</li> <li>2. Gordon, R. and S. G. Harris (1998), "Macroeconomics", Addison Wesley.</li> <li>3. H.L. Ahuja, "Economic Environment of Business - Macroeconomic Analysis", S. Chand Publication, New Delhi.</li> <li>4. H.L. Ahuja, "Macro Economics Theory and Policy", S. Chand Publication, New Delhi.</li> <li>5. Hall, R. E. and J. B. Taylor (1986), "Macroeconomics", W. W. Norton, New York.</li> <li>6. Jha, R. (1991), "contemporary Macroeconomic Theory and Policy", Wiley Eastern Ltd.,</li> <li>7. Jha, R. (1999), "Contemporary Macroeconomic Theory and Policy", New Age International (P) Ltd., New Delhi.</li> <li>8. Keynes, J. M. (1936), "The General Theory of Employment, Interest and Money", Macmillan, London.</li> <li>9. M.L. Jhingan, "Macro Economic Theory", Vrinda Publications (P) Ltd. Delhi. New Delhi.</li> <li>10. Romer, D. L. (1996), "Advanced Macroeconomics", McGraw Hill Company Ltd., New York.</li> <li>11. Shapiro, E. (1996), "Macroeconomic Analysis", Galgotia Publications, New Delhi.</li> </ol>		

## MRS 2.2: Research Methodology

### Objectives:

1. To develop understanding of the basic framework of research process.
2. To apply research process in context of rural studies.

<b>MRS 2.2: Research Methodology</b>		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Research Fundamentals:</b> 1.1: Meaning, objectives and Motivation in research. 1.2: Types of Research. 1.3: Research Process. 1.4: Relevance & Scope of Research in functional areas. 1.5: Practical and Applications: Identify the research problems with reference to rural development.	<b>15 Hours</b>

<b>Unit 2:</b>	<b>Research Design and Sampling Techniques</b> 2.1: Introduction, Meaning, Characteristics, Advantages, Importance of a Good Research Design. 2.2: Types of Research Designs and various Steps. 2.3: Census Survey and Sampling Techniques. 2.4: Simple Random Sampling (SRS) with its types SRSWR and SRSWOR, Stratified Sampling, Cluster Sampling, Quota Sampling. 2.5: Practical and Applications: Preparation of research and sample design.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Data Collection, Processing and Analysis:</b> 3.1: Data Types : Primary and Secondary data 3.2: Methods of Primary Data Collection: Observation Method, Interview Method, Mailed Questionnaire Method 3.3: Sources of Secondary Data. 3.4: Editing, Coding, Classification and Tabulation of Data, Analysis and Interpretation of data 3.5: Practical and Applications: Exercise on data collection and presentation.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Testing of Hypothesis and report Writing</b> 4.1: Introduction to testing of Hypothesis. 4.2: Definitions of Terms: Null and Alternative Hypothesis, Level of Significance, Types of Errors – I and II, Size and Power of Test. 4.3: Steps involved in Testing of hypothesis. Types of Test: Parametric and Non-parametric Tests, Small and Large Sample, One and Two Sample tests. 4.4: Report Writing: Steps involved in Report Writing, Requisites of Good research Reports. 4.5: Practical and Applications: Exercise on Testing of hypothesis	<b>15 Hours</b>
<b>Reference Books:</b> <ol style="list-style-type: none"> <li>1) C. R. Kothari, “Research Methodology”.</li> <li>2) Dr. Raj Kumar, “Methodology of Social Sciences Research” Book Enclave, Jaipur.</li> <li>3) Dr. V. P. Michael, “Research Methodology in Management”</li> <li>4) Gopal Lal Jain, “Research Methodology Methods, Tools &amp; Techniques”, Mangal Deep Pub. Jaipur.</li> <li>5) Jai Narain Sharma, “Research Methodology The Discipline &amp; Its Dimensions”, Deep &amp; Deep New Delhi.</li> <li>6) S. Mohan, R. Elangovan, “Research Methodology in Commerce”, Deep &amp; Deep, New Delhi.</li> </ol>		

## MRS 2.3 Computer Applications for Rural Studies

### Objectives:

1. To introduce the basic concepts of computers
2. To understand the application of computers in rural studies.

MRS 2.3 Computer Applications for Rural Studies		
Marks :100 = (External - 50) + (Internal - 50)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Computer Fundamentals</b> 1.1: Introduction of Computer: Computer and its components; Characteristics of Computer, Basic Functions of Computer 1.2 Hardware and Software, Input-Output-Storage Device 1.3: Storage devices: Memory and its types – Primary V/s Secondary memory 1.4: Virus and Antivirus: Introduction, How it harms the computer, Antivirus Software. 1.5: Demonstrations and introduction to computer Hardware and software. (Introduction to various components of a computer.)	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Word</b> 2.1: Introduction to Word Processing, 2.2: Advantages of word processing, 2.3 Creating, Saving and Editing a document: Selecting, Deleting, Replacing Text, Copying text to another file. 2.4: Formatting Text and Paragraph: Using the Font Dialog Box, Paragraph Formatting using Bullets and Numbering in Paragraphs, Checking Spelling, Line spacing, Margins, Space before and after paragraph. 2.5: Practical based on Word Processing	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Excel and SPSS</b> 3.1: Introduction to spreadsheet. 3.2: Entering information: Numbers, Formula, and Editing Data in a cell. 3.3: Excel functions, Using a Range with SUM, Moving and copying data, Inserting and Deleting Row and Columns in the worksheet. Using the format cells Dialog box, Using chart wizard to create a chart. 3.4: Basics of SPSS. 3.5: Practical based on Excel and SPSS	<b>15 Hours</b>



<b>Unit 4:</b>	<b>PowerPoint and Internet</b> 4.1: Introduction of slide presentation. 4.2: Slide show, Formatting, Creating a Presentation. 4.3: Inserting clip Arts, Adding Objects, Applying Transitions, Animation effects, formatting and checking text. 4.4: Internet : Introduction and uses 4.5: Practical based on PowerPoint	<b>15 Hours</b>
<b>Reference Books:</b> <ol style="list-style-type: none"> <li>1. Michael Miller, “Absolute Beginner’s guide to computer Basics”, Fourth Edition, Pearson Education (2007).</li> <li>2. Peter Norton, “Introduction to computers”, Sixth Edition Tata McGraw Hill (2007).</li> <li>3. R. K. TAXALI, “PC Software for Windows 98, Made Simple” TMH.</li> <li>4. Sanjay Saxena, ”MS Office 2000 for every one” Vikas Publishing House PVT LTD.</li> <li>5. Sinha P. K., “Computer Fundamentals, BPB.</li> <li>6. Will Train, Gini Corter, Annette Marquis, “Microsoft Office” BPB.</li> <li>7. Xavier, C, “Introduction to Computers and Basic Programming” New age International.</li> </ol>		
Note: Fifty (50%) percentage of the weightage should be given for practical, i.e. 30 hours of theory and 30 hours of practical.		

**Tentative List of Practical:**

1. Introduction to various components of a computer.
2. Define page size and margins for a document.
3. Insert graphics in a document.
4. Prepare your bio-data/ CV in one A-4 size page.
5. Explain the use of spell check and other formatting.
6. Prepare a document with at least three fonts and four different font sizes. Include superscript and subscript.
7. Open a work sheet, name it and save it., Change the width of a column/ range of columns.
8. Enter text and change its size and font in a cell.
9. Delete/insert a row/ column in a worksheet
10. Introduction to the various views of SPSS package.
11. Data entry and Analysis ( Descriptive Statistics and Graphical Presentation of Data)
12. Prepare a presentation to identify yourself.
13. Prepare a presentation to show infrastructure about your department/Institution.
14. Insert a slide in a slide show, change slide layout colour and background.
15. Apply animation and slide transition.
16. Prepare a presentation to give information about some issue related to rural development.

## MRS 2.4 Risk Management & Rural Insurance

### Objectives:

- 1) To aware the students about various kinds of risks in Rural Area.
- 2) To train the students about managing the rural risks.

MRS 2.4 Risk Management & Rural Insurance		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Introduction to Risks in Rural Development</b> 1.1: Risk- Definition, Sources of Risk, Risk and Household Vulnerability. 1.2: Managing the Important Risks - Risk Management By Poor And Vulnerable Households: An Asset-Based Approach 1.3: Social Risk Management 1.4: Risks in Agriculture - Climate, Drought, Production, Price, Finance and Market. Agribusiness Risk Management Tools. 1.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Rural Risk Management</b> 2.1: Risk management - Concept, Objectives, Process, Essentials of risk management, Elements of risk management, risk assessment. 2.2: On-Farm Risk Management Strategies 2.3: Farm Risks, Market Failures, and Government Interventions, Experience with Public Risk-Management Policies. 2.4: Community and Government Roles in Risk Management. 2.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Rural Insurance</b> 3.1: Definition of insurance, risk pooling and Risks transfer, Economic and Legal perspectives. 3.2: Crop Insurance, National Agricultural Insurance Scheme (NAIS) 3.3: Rainfall Insurance, Weather Based Crop Insurance, Farm Income Insurance, Livestock Insurance, Package Insurance. 3.4: Health Insurance - Need for a general health insurance, Health Insurance Policy of government. Need for a special health insurance for the poor, disabled, and the aged. 3.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Rural Risks and the Govt.</b> 4.1: Contract Marketing and Futures Trading 4.2: Price pooling, Forward contracting, Hedging on a futures market 4.3: Measurement of Risk 4.4: Rural Risks and the World Bank, Rural Risks and the WTO 4.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>

**References:**

- 1) Ahsan, S.M. (1985), "Agricultural Insurance: A New Policy for Developing Countries", Gower, Aldershot.
- 2) Bailey, R. (Ed.) (1999), "Underwriting in Life and Insurance", LOMA, Atlanta, Ga.
- 3) G. Kotreshwar, "Risk Management Insurance and Derivatives", Himalaya Publishing House.
- 4) Head, G. L. and S. Horn II (1991), "Essentials of Risk Management", Volume I, Insurance Institute of America, Malvern, Pa.
- 5) Skipper, Jr. H. D. (Ed.) (1998), "International Risk and Insurance: An Environmental Managerial Approach", Irwin McGraw Hill, Boston.

**MRS 2.5 Rural Development Programmes and Policies****Objectives:**

- 1) To study Programmes and Policies in Rural Development.
- 2) To create awareness about employment opportunities related with agriculture.

<b>MRS 2.5 Rural Development Programmes and Policies</b>		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Rural Development Perspectives and Agencies</b> 1.1: Development Approaches pre and post independence. 1.2: Neo Rural Development Policies of the governments. 1.3: Rural Administration- Revenue and Development, Structure and Functions Panchayati Raj Institutions (PRI's), Panchayati Raj Before and after 73 <sup>rd</sup> Constitutional Amendment Act. 1.4: Role of NGOs in Rural Development. 1.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Social Sector and Development</b> 2.1: Health and sanitation – Programmes and Policies of Government and Non Governmental Organisations. 2.2: Education- Programmes and Policies for Primary, Secondary, Higher and Vocational. 2.3: Social Security- Recent Programmes and Policies. 2.4: Programmes and Policies for Women and Children. 2.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Agriculture and Employment</b> 3.1: Agricultural Policies and Programmes of Central Government- Revolution- Green, Blue, Yellow, White. land reforms, CACP, , ICAR- Krishi Vidyan Kendra- Agricultural Extension. 3.2: Agricultural Policies and Programmes of State Government- Watershed programme, ATMA, Farmer Club, e-marketing. 3.3: Employment – Recent Programmes and Policies- NREGA 3.4: Skill Development and Agro Consultancy 3.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>

<b>Unit 4:</b>	<b>Rural Development</b> 4.1: Microfinance, Self-Help Group (SHG) and Women Empowerment 4.2: Food Security - Public Distribution System, Buffer Stock. 4.3: Globalisation and Rural Development: WTO, TRIPS and TRIMS 4.4: Rural Development of SAARC Countries. 4.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>References:</b> 1) A.S. Malik, "Concept and Strategy of Rural Industrial Development", New Delhi: M.D. Publications, 1995. 2) Agrawal, A.N. (1997), "India Economic Problem of Development and Planning," 3) Amartya Sen, (1984), "Resources, Value and Development" Basil Blackwell: New York. 4) B.S. Khanna, "Rural Development in India", New Delhi: Deep & Deep Publications, 1982. 5) Bhatnagar, "Rural Development in India", New Delhi: Light and Life Publishers, 1978. Century: A Multi Dimensional Study", New Delhi: Deep & Deep Publications, 2006. Co. Jalandhar, 1992. 6) Hoshier Singh, "Administration of Rural Development in India", New Delhi, Sterling Publishers, 1995. 7) Hoshier Singh, "Rural Development in India", Jaipur: Printwell Publishers, 1985. 8) Journal of Rural Development, National Institute of Rural Development, Hyderabad. 9) Katar Singh, "Rural Development: Principles and Management", Sage Publication 10) Khanna, B.S. (1991), "Rural Development in South Asia", Deep and Deep Publisher: New Delhi. 11) Kurukshetra: A journal of Rural Development, Government of India. 12) Mohinder Singh, "Rural Development in India – Current Perspectives", New Delhi: Intellectual Publishing House, 1992. Publications, 13) Robert Chambers, (1993), "Challenging the professionals", Intermediate Tech. 14) Ruddar Datt & K.P.M. Sundharam, (2006) "Indian Economy", S. Chand & Co. Ltd: New Delhi. 15) S.N. Mishra, "New Horizons in Rural Development Administration", New Delhi: Mittal Publications, 1989. 16) S.R. Maheswari, "Local Government in India", New Delhi: Origin Longman, 1984. 17) S.R. Maheswari, "Rural Development in India, A Public Policy Approach", New Delhi: Sage Publications, 1985. 18) Sahib Singh and Swinder Singh, "Local Government in India", New Academic Publishing 19) Surat Singh and Mohinder Singh (Eds.), "Rural Development Administration in 21 <sup>st</sup> WISHWA Prakashan: New Delhi.		

## MRS 2.6 Resource Economics

### Objectives:

- 1) To study natural resources in theoretical perspective and their extraction under different market conditions.
- 2) To train the students relating to theoretical issues of management of natural resources.

MRS 2.6 Resource Economics		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Economics of Natural Resources</b> 1.1: Concept of Resource rent – Theories of Ricardo and Von Thueneu rent model- Transfer price (Opportunity cost) 1.2: Natural Resources: Meaning and types- Renewable and non-renewable, Economic development and Natural Resources. 1.3: Exhaustible Natural Resources: Socially optimal extraction under different (Competitive, Oligopolistic and monopoly) market structure. 1.4: Government policy towards non-renewable resource taxation. 1.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Externalities and Pollutions</b> 2.1: Externalities - Types and Measures, Externalities as missing markets, Property rights and externalities 2.2: Externalities and Market Failure, Causes, Effect of Market Failure 2.3: Types of pollutions – Causes, effects and remedies. (air, water, Noise and Land) 2.4: Types of Goods - Private Goods, Public goods and Merit Goods. Environmental resources/goods as Public Goods. 2.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Valuation of Natural Resources</b> 3.1: Concept of valuation of natural resources, importance and limitations. 3.2: Methods of Valuation of Natural Resources :- Direct Methods - Contingent Valuation Method, Trade off Games Method and Delphi Technique. Indirect Methods - Hedonic Approach, Conventional Approach and Cost Based Methods. 3.3: Extraction of Natural Resources: Tragedy of Commons and Prisoner's dilemma, Gray's model , Hotelling's Model. 3.3: Intellectual Property Rights:- Recycling of Natural Resources. 3.4: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>

<b>Unit 4:</b>	<b>Management of Natural Resources</b> 4.1: Environmental Impact Assessment (EIA) - Concept, Phases, Methods, Importance and Limitations. 4.2: Social Impact Assessment (SIA) - Concept, Stages, Tools, Methods, importance and limitations. 4.3: Green Accounting:- System of Integrated Economic and Environmental Accounting Method (SEEA)- Environmental Adjusted Net Domestic Product(EDP). 4.4: Cost-Benefit Analysis, Environmental Audit. 4.5: Practical and Applications- Related Case studies and Reports.	<b>15 Hours</b>
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**References:**

- 1) Barbier Edward (2003), "Role of Natural Resources in Economic Development", Research Article Australian Economic Papers, Blackwell Publishing Ltd, University of Adelaide & South Australia.
- 2) Conrad, J. M. & Clark, C. W., "Natural Resource Economics: Notes and Problems".
- 3) Costanza, R (eds, 1991), "Ecological Economics' 'the Science and the Management of Sustainability", Columbia University press, New York
- 4) Dasgupta, P. and Heal, G. M., "Economics Theory and Exhaustible Resources".
- 5) Faber, Manstetten & Proops (2002), "Ecological Economics", Edward Elgar Publishing Limited Glos, UK .
- 6) Gadgil, M. and R. Guha (1995), "Ecology and Equity the use and abuse of nature in contemporary India", Penguin Hooks
- 7) Hanley And Spash (1998), "Cost Benefit Analysis and the Environment", Edward Elgar Publishing Limited, Glos, UK.
- 8) Hanley, Shogren and White( 1997), "Environmental Economics; In Theory and Practice", Macmillan India Limited, Delhi.
- 9) Hanley, Shogren and White( 1997), "Environmental Economics; In Theory and Practice" Macmillan India Limited, Delhi
- 10) Hartwick, J. M. & Olewiler, N. D., "The Economics of Natural Resource Use".
- 11) John M. Hartwick, Nancy D. Olewiler , "THE ECONOMICS OF NATURAL RESOURCE USE" HARPER & ROW, PUBLISHERS, New York Cambridge, Philadelphia, San Francisco, London, Mexico City, Sao Paulo, Sydney.
- 12) Perrings, C. (1987), "Economy and environment I A theoretical essay on theInterdependence of Economic and Environmental systems", Cambridge University Press
- 13) Report on NCA. World Bank Reports, UNO Publications
- 14) Sen, Amrtya ( 1981-2011), "Poverty and Famines", Oxford University Press, New Delhi.
- 15) Singh and Shishodia (2010), "Environmental Economics; Theory and Applications", Sage Publications India Private Limited, New Delhi.
- 16) The Hindu Survey of Environment, Various issues.
- 17) USAID, 2006, The Role of Property Rights in Natural Resource Management, Good

Governance, and Empowerment of Poor Schlger & Ostrom, 1992, Property Rights Regime and Natural Resources: A Conceptual Analysis, University Wisconsin Press  
18) World Resource Institute, World Resources, Annual Reports, Other publications.

## **MRS 2.7: Basic Econometrics**

### **Objectives:**

1. To have a deeper understanding of econometrics and have greater confidence in its application.
2. To emphasize both the theoretical and the practical aspects of statistical analysis, focusing on techniques for estimating econometric models of various kinds.

<b>MRS 2.7: Basic Econometrics</b>		
Marks :100 = (External - 80) + (Internal - 20)		Total Hours : 60
Syllabus Contents:		
<b>Unit 1:</b>	<b>Introduction to Econometrics</b> 1.1: Meaning and definition of Econometrics. 1.2: Methodology of Econometrics. 1.3: Types of Econometrics 1.4: Mathematical and Statistical Prerequisites. 1.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.	<b>15 Hours</b>
<b>Unit 2:</b>	<b>Regression Models</b> 2.1: Regression technique: simple linear regression, assumptions Underlying the method of Least Squares 2.2: The method of ordinary Least Squares 2.3: Properties of Least-square estimation: the Gauss-Markov theorem 2.4: The coefficient of determination $r^2$ : A measure of Goodness of fit. 2.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.	<b>15 Hours</b>
<b>Unit 3:</b>	<b>Multiple Regression Models</b> 3.1: The three –variable Model: Notation and assumptions 3.2: Interpretation of Multiple Regression Equation 3.3: The meaning of Partial Regression Coefficients, OLS estimation 3.4: The multiple Coefficient of Determination $R^2$ 3.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.	<b>15 Hours</b>
<b>Unit 4:</b>	<b>Relaxing the Assumptions of the Classical Model and Econometric Modeling</b> 4.1: Problem of Multicollinearity: Concept, definition, detection and remedial measures. 4.2: Problem of Heteroscedasticity: : Concept, definition, detection and remedial measures. 4.3: Problem of Autocorrelation: Concept, definition, detection and remedial measures. 4.4: Model Selection Criteria of Econometric Modeling. 4.5: Practical and Applications: Illustrative Examples and Practical Based on real data sets obtained by field visit or survey.	<b>15 Hours</b>

**Reference Books:**

1. B.H. Baltagi, "Econometrics", Springer,
2. Barreto and Howland, "Introductory Econometrics", Cambridge University Press.
3. D.N.Gujarati, G.C. Porter, S. Gunasekar, "Basic Econometrics", TMH publication, NewDelhi.
4. Greene, W.H., "Econometric Analysis". 6th Ed. Prentice-Hall, 2008.
5. H.R. Seddighi, "Introductory Econometrics: A practical approach", Routledge.
6. J.M.Woolridge, "Introductory Econometrics: A modern approach", 4th edition, Cengage Learning.
7. Kennedy, P. A, "Guide to Econometrics". The MIT Press, 2003.
8. Ramanathan, Ramu, "Introductory Econometrics With Applications", Thomson South Western (2002).