

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI



STRUCTURE AND SYLLABUS
CREDIT FRAMEWORK FOR TWO YEARS MASTER
DEGREE PROGRAMME
UNDER THE FACULTY OF HUMANITIES
BOS OF ECONOMICS

Effective from Academic Year 2023-2024
(As Per NEP-2020)

Sant Gadge Baba Amravati University, Amravati
Faculty: Humanities
Session- 2023-24
Two years- four semesters Master's Degree Programme – NEP-v23
Syllabus Programme - M. A. (Economics) First Year, First Semester

Part A

PROGRAMME OUTCOMES (POs)

- 1) To analyse the Economic Issues related to local to global scenarios,
- 2) This Programme helps to understand the various Social, Political and Economic Institutions.
- 3) Applying their knowledge to assess issues in fields of agriculture, industry, insurance , banking and Finance, environmental, and social issues to provide practical solutions.
- 4) Formulate and execution of field study, and an industrial visit to get practical exposure to the latest issues.
- 5) To understand how economic policies affect the common people through interactions .
- 6) To utilize the research spheres of Economics.
- 7) The students should be able to find a career in Economics.

PROGRAMME SPECIFIC OUTCOMES (PSO)

- 1) Helps to understand the basic theories of economic growth and development.
- 2) Students will be able to understand the working principles of the Money market and Capital Market.
- 3) Students should be able to develop knowledge about production, demand, market and Pricing.
- 4) Students can know how to apply the knowledge of Economics in various sectors of society to solve various financial issues.
- 5) Able to understand the role of the public and private sectors in economic development.
- 6) Students should be able to develop knowledge about the role of International trade in economic development.
- 7) Develop, analyse and appraise developmental plan for sustainable development.
- 8) Students should be able to develop knowledge about monetary policy, fiscal policy and its implications for the economy.
- 9) Develop professional entrepreneurial ability and skills.

Employability Potential of the Programme :

Economics is an excellent career option for those who love numbers and want to know the nitty-gritty of markets and how the economy functions. An Economics degree equips you with a high level of statistical, and analytical skills and teaches you how to apply different Economic principles and concepts to real-world challenges.

In other words, a master's degree in Economics prepares you for job profiles that demand numerical, analytical, and problem-solving skills, such as financial management, market research ,business planning, budgeting, resource allocation, etc.

After completing your post graduation in Economics, you can look forward to bagging job roles like Economist, Accountant, Actuary, Financial Consultant, Financial Planner, Risk Analyst, Investment Analyst, Economic Researcher, Economics Teacher/Professor, Statistical Research Officer and much more. and also Self- employment.

The idea is to help students develop a strong foundational knowledge of Economics However, to be a school teacher, you must also have a B.Ed degree. If you continue with your education after your M.A., say or Ph.D. in Economics, you can start carrier as a Lecturer/Asst. Professor in colleges/universities.

To enter the banking sector, you can appear for exams like IBPS and State Bank recruitment exams. Apart from this, Economics majors can also find work opportunities in international organizations like the International Labour Organization and the World Bank.

After completing Post graduation in Economics, candidates can join consultancy firms or work independently. Generally, Economic consultancies specialize in specific sector like financial services, labour, market analysis, telecommunications, etc. The job primarily entails providing expert advice and suggestions on various Economic matters to clients.

This makes entrepreneurship a commendable career choice for Economics graduates . They can start their business venture and apply their Economic expertise to drive profit and business Growth.

Sant Gadge Baba Amravati University, Amravati
FACULTY: HUMANITIES
Session: 2023-24
Two Years- Four Semesters Master's Degree Programme- NEPv23
Program: M.A. (Economics)

Semester – I

Subject	Code of the Course Subject	Title of the Course Subject	Total Number of Periods	No of Credits
Discipline Specific Core: DSC				
RM & IPR		Research Methodology and Intellectual Property Rights	60	04
DSC-I.1	Eco - 11	Advanced Micro Economics - I	75	05
DSC-II.1	Eco - 12	Advanced Macro Economics -I	75	05
DSC-III.1	Eco - 13	Agriculture Economics	60	04
DSE-I/MOOC (Select any One) Discipline Specific Elective				
DSE-I.A	Eco - 14	Statistics for Economics -I	60	04
OR				
DSE-I.B	Eco - 15	Rural and Urban Development	60	04
OR				
DSE-I.C	Eco - 16	Health and Environment Economics	60	04
Total Credits - 18 (DSC) + 04 (DSE) = 22				

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Faculty : Humanities
Syllbus For Two Years Master's Degree (PG) in Economics Programme (NEP v 23)

M.A. I (Economics) Semester-I
(Th-Major)

Code of the Course	Title of the Course	Credit	Total No. of Periods
RM & IPR	Research Methodology and Intellectual Property Rights in Economics	04	60

University Exam. : 70 Marks.

Internal Assessment. : 30 Marks.

Course Outcomes:

After the completion of this course the student will be able to:

- 1) To understand the formulation and identification of the research problem.
- 2) To understand the various methods of research and conclusion of research problem.
- 3) Student realised Awareness of research tradition.
- 4) To understand the Intellectual Property Right and Rights regarding copyright.
- 5) To understand and knowledge for Ph.D. and Research Project to various Research Institute.

Module	Course Contents	Total Hours / Lectures (L)
1	Introduction 1.1 Scientific Research: Meaning, Nature and Factors of Scientific Research 1.2 Social Research: Meaning, Features and Significance of Social Research 1.3 Research in Economics: Meaning, Nature, Scope, Characteristics, Importance and Limitations 1.4 Types of research (Social and Economic Research)	12L
2	Research Design and Process 2.1 Selection of Research problem: Meaning Need, Objectives and Factors 2.2 Objectives and Hypothesis: Meaning and Importance 2.3 Review of Research Literature : Meaning ,Significance, and Types 2.4 Research Design: Meaning, Need, Factors and Types	12L
3	Collection and Analysis of Data 3.1 Collection of Data: Meaning, and Types 3.2 Census and Sampling Method of Data Collection- Meaning, Merits and Demerits 3.3 Classification of data: Meaning and functions,	12L

	<p>Tabulation of data: Meaning, Parts of the table and Importance</p> <p>3.4 Editing and Interpretation of data: Meaning, Importance and Limitation</p> <p>3.5 Use of Statistical Tools in Research: Meaning and Factors Involved in Statistical Tools</p>	
4	<p>Evaluation of Objective and Report Writing</p> <p>4.1 Evaluation of objective: Meaning and Significance</p> <p>4.2 Testing of hypothesis: Meaning, steps and Statistical Techniques (tests)</p> <p>4.3 Report writing: Meaning and Factors</p> <p>4.4 Findings, Footnote and Bibliography: Meaning and Factors</p>	12L
5	<p>Intellectual Property Right (IPR)</p> <p>5.1 Intellectual Property: Meaning, Definition Importance</p> <p>5.2 Intellectual Property Right: Nature & Industrial Design, Patents, Trade Marks</p> <p>5.3 Intellectual Property Right and India</p> <p>5.4 Copyright and Rights Regarding Copyright</p>	12L
Total		60

Reference Books:

1. Broota, K. D. (1989): Experimental Design in Behavioural Research: New Delhi- Wiley Eastern Ltd.
2. Gosh B.N.(199.– Scientific Method and Social Research – Sterling Publishers (P) Ltd.,
3. Goode J. and Hatt P.J. (1969). Methods in Social Research : New York McGrawHill.
4. Goard Rameson and Martin Skitmore. (2006), Writing Research Report : New Delhi- Anmol Publications Pvt. Ltd.
5. Gupta S. P., (1984), Statistical Methods: New Delhi-Sultan Chand and Sons.
6. Gupta S.C. and V.K. Kapoor (1993) Fundamentals of Applied Statistics: New Delhi- S. Chand and Sons
7. Kothari- C.R. Research Methodology (1988), Methods and Techniques : New Delhi, Willey Eastern Ltd.,
8. Lundberg, George A.: Social Research, Long mans: New Delhi-Green and Co.
9. Mukherjee P.N. (eds.), 2000, Methodology in Social Research,:New Delhi - Sage (Introduction)
10. Sadhu A.N. and Amarjit Singh, Research Methodology and Social sciences: New Delhi –Himalaya Publishing House.
11. Singh, A. K. (2006): Tests Measurement & Research Methods in Behavioural Science: (5th Ed): Patna Bharti Bhavan.
12. Thanulingom, N. (2000), Research Methodology: New Delhi.-Himalaya Publishing House.

13. आगलावे प्रदिप (२०००), संशोधन पद्धती शास्त्र व तंत्रे साईनाथ प्रकाशन, नागपूर
14. बोधनकर सुधीर, सामाजिक संशोधन पद्धती , श्रीसाईनाथ प्रकाशन, नागपूर.
15. भोसले, काटे, : अर्थशास्त्रातील संशोधन पद्धती, फडके प्रकाशन, कोल्हापूर
16. कुलकर्णी, ढमढेरे, अर्थशास्त्रीय संशोधन पद्धती, डायमंड पब्लिकेशन्स, पुणे.
17. वावरे, इप्पर (२०२२), अर्थशास्त्रातील संशोधन पद्धती, एज्युकेशन पब्लिशर्स, औरंगाबाद.
18. कऱ्हाडे जी. एम., सामाजिक संशोधन पद्धती
19. पाटीलव्ही. बी. (१९९८) संशोधन पद्धती, मंगेश प्रकाशन, नागपूर
20. नेमाडे जयश्री,जाधव सतिश, चव्हाण हिरालाल बौद्धिक संपदा हक्क : स्वरूप आणि समस्या,प्रशांत पब्लिकेशन, जळगाव.
21. गोविलकर वि.म., बौद्धिक संपदा अधिकार, डायमंड पब्लिकेशन,पुणे
22. जैन कमलेश, कॉपीराइट, राजकमल प्रकाशन प्रा. लि.
- 23 श्रीरामे राजू अर्थशास्त्रीय संशोधन पद्धती , सर साहित्य प्रकाशन, नागपूर.

Sant Gadge baba Amravati University Amravati.
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Syllbus For Two Years Master's Degree (P G) in Economics Programme (NEP v 23)

M.A. I (Economics) Semester-I
DSC-I.1 (Major)

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 11	Advanced Micro Economics - I	05	75

University Exam. : 70 Marks.

Internal Assessment : 30 Marks

Course Outcomes :

After the completion of this course the student will be able to:

- 1 :** Students should have a solid understanding of the core concepts of microeconomics and the ability to apply economic reasoning to everyday decision-making and policy analysis.
- 2 :** To provide students with a strong foundation in understanding consumer behavior, market dynamics, and the implications of demand for business strategy and policymaking.
- 3 :** To equip students with the knowledge and skills to understand consumer motivations, preferences, and decision-making processes, as well as how to analyze and interpret demand responsiveness for various goods and services.
- 4 :** to provide students with a solid understanding of production theory, factors of production, and their implications for resource allocation and economic efficiency.
- 5 :** To equip students with the knowledge and analytical skills necessary to understand the financial aspects of business operations, pricing strategies, and profit maximization.

Module	Course Contents	Total Hours / Lectures (L)
1	Introduction and Basic Concepts 1.1 Basic Economic Problem, Choice and Scarcity. 1.2 Methodology of Economics, Deductive and Inductive, Positive and Normative Economics. 1.3 Concept of Equilibrium - Partial and General Equilibrium, Static and Dynamic Equilibrium.	15L

2	Demand Analysis 2.1 Concepts, Law of Demand. 2.2 Consumer behavior, Cardinal Utility Analysis, Law of Diminishing Marginal Utility 2.3 Applicability of Indifference curve Analysis, Consumers Equilibrium, Income Substitution and Price effects.	15L
3	Consumer Behavior and Elasticity of Demand 3.1 Elasticity of Demand -Concepts of Demand Elasticity, types and Measurements. 3.2 Revealed Preference theory of demand 3.3 Consumer Surplus	15L
4	Theories of Production 4.1 Technical progress and Production Function, ISO- quants Curve. 4.2 Law of Variable Proportion, Law of Return to Scale. 4.3 Economies and diseconomies of scale - Internal and External	15L
5	Cost and Revenue 5.1 Concept of cost, various types of cost, Modern theory of cost learning curve- L-Shaped 5.2 Concept of Revenue, Various types of Revenue 5.3 Revenue curves and cost curves	15L
	Total	75

Reference Books:

1. Ahuja H. L. Advanced Economic Theory: Micro Economic Analysis, 13th Edition, S. Chand and co. Ltd., New Delhi
2. Baumol W. J., Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi 3) Dewett K.K., Modern Economic Theory, S. Chand and Co. Ltd., Revised Edition 2005
3. Jhingan M.L., Micro Economic Analysis, Vrinda Publications, New Delhi
4. Koutsoyiannis A., Modern Economics, 2nd Edition, Macmillan Press London
5. Kreps David M., A course in Micro Economics Theory, Princeton University Press, Princeton
6. Sen, A Micro Economics: Theory and Applications, Oxford University Press, New Delhi

7. Stigler, G. Theory of Price, 4th Edition, Prentice Hall Of India, New Delhi 9) Seth M.L., Micro Economics
8. Varian, H. Micro Economic Analysis, W.W. Norton, New York. –
9. झिंगन एम. एल., उच्च आर्थिक सिध्दांत, वृंदा पब्लिकेशन्स प्रा. लि. दिल्ली.
10. पिंपरकर ग.प्र.- मुल्य व वितरण सैध्दांतिक विवेचन, मराठी अर्थशास्त्र परिषद.
11. पाटील कृ.ए.उच्चतर आर्थिक सिध्दांत, श्री मंगेश प्रकाशन, नागपूर.
12. खांदेवाले श्रीनिवास – किंमत सिध्दांत पिंपळापुरे प्रकाशन, नागपूर.
13. तिवारी एच. आर. सुक्ष्म अर्थशास्त्र मुल्य सिध्दांत अद्वैत प्रकाशन, अकोला.
14. माहोरे रामदास, माहोरे समित, अर्थशास्त्राचे सिध्दांत, साईज्योती पब्लिकेशन, नागपूर.

**M.A. I (Economics) Semester-I
DSC-II.1 (Major)**

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 12	Advanced Macro Economics -I	05	75

University Exam. : 70 Marks.

Internal Assessment : 30 Marks.

Course Outcomes

After the completion of this course the student will be able to:

1. Explain the evolution of money and know the concept of money and its functions.
2. To understand the national income concept.
3. Know about the supply of money and high-powered money.
4. To gives the idea of Keynesian theory of employment.
5. To understand the theories of the consumption function.
6. To gives an idea about how to make a saving and investment.
7. Evaluate the working and effects of monetary and fiscal policy.

Module	Course Contents	Total Hours / Lectures (L)
1	National Income Analysis – 1.1 National income - Definition, Basic Concepts, Elements, Measurement of National Income (Methods to calculate national income), Difficulties in the Calculation of National Income, National Income and economics welfare. 1.2 Circular flow of income in two, three and four sector of economy. 1.3 National income accounting – Social Accounting, flow of fund accounting, balance of payment National Income.	15L
2	Theory of Income employment and consumption function – 2.1 Classical Theory of income and employment- Say’s law of market, Pigous version, Keynes’s Criticisms of classical theory of employments. 2.2 Keynes’s theory of employments, the equilibrium level of employment and income, evaluation, practical importance and failures of Keynesian theory. 2.3 The consumption function -The propensity to consume, Keynes’s Psychological law of consumption. Short run and long run Consumption function. Factors affecting consumption function, Income consumption relationship - Absolute Income, relative income, lifecycle and permanent income hypotheses	15L
3	Multiplier and Investment Function 3.1 Meaning and types of investment, marginal efficiency of capital, marginal efficiency of capital and rate of interest, relationship between saving and investment. Factors influencing the marginal efficiency of capital.	15L

	3.2 Meaning of multiplier, types of multiplier, working and reverse operation of multiplier. Limitation, importance, criticism and leakages of multiplier static and dynamic multiplier. 3.3 Principle of acceleration, operation of acceleration, limitation or criticisms of acceleration, Samuelson's interaction between the multiplier and acceleration.	
4	Demand for Money 4.1 The Classical approach to Demand for Money. 4.2 Fisher's quantity theory of demand for money. Criticisms on Fisher's theory. 4.3 Modern approach to demand for money- Cambridge equations, Comparison between Fisher's and Cambridge equation.	15L
5	Supply for Money 5.1 Concept of money supply- Determinants of Money supply. Changes in the money supply. 5.2 High powered money and money multiplier. Derivation of money multiplier. Measures of money supply in India. Different approaches regarding measure of money supply. 5.3 RBI approach to money supply.	15L
	Total	75

Reference Books:

- 1) Ahuja H.L. : Macro Economics for Business and Management, S. Chand and co. Ltd., New Delhi
- 2) Blackhouse, R. and A. Salansi, Macro Economics and The Real World (2nd Volume) Oxford University Press, London
- 3) D'Souza, Errol, Macro Economics, Pearson Education, Delhi
- 4) Gupta R.D. and Rana A.S.: Post- Keynesian Economics, Kalyani Publishers, Ludhiana
- 5) Heijdra, B.J. and V.P. Frederick, Foundations of Modern Macro Economics, Oxford University Press, New Delhi
- 6) Jha, R., Contemporary Macro Economic Theory and Policy, Wiley Eastern Ltd., New Delhi
- 7) Jhingan M.L., : Macro Economics, Vrunda Publication Delhi.
- 8) Keynes J. M. : General Theory Of Employment and interest and Money
- 9) Mithani D.M. , Money, Banking, International Trade and Public Finance, Himalaya Publications
- 10) Rakshit , M., Studies in the Macro Economics Of Developing countries, Oxford University Press, New Delhi
- 11) Reddy Y.V., A Review Of Monetary and Financial Sector Reforms In India, UBSTD, New Delhi
- 15) Shukla D.K.: Business Cycle Analysis
- 13) Turnovsky, Methods of Macro-Economic Dynamics
- 14) Seth M.L.- Macro Economics Laxmi Narayan Agrawal Prakashan, Agra,
- 15) झिंगन एम. एल. , समष्टी अर्थशास्त्र, वृन्दा पब्लिकेशन प्रा. लि. दिल्ली.
- 16) माहोरे रा. य. , समष्टी अर्थशास्त्र, हिमालया पब्लिशिंग हाऊस, नागपूर.
- 17) झामरे जी. एन. स्थूल अर्थशास्त्र, पिंपळापुरे अॅंड कं.पब्लिशर्स, नागपूर.

Sant Gadge baba Amravati University Amravati.

**Two Year Master's Degree Programme (NEP)
Syllabus For Two Year Master's Degree Programme (NEP)
(Implemented from 2023 - 2024 session)**

**M.A. I (Economics) Semester-I
DSC-III.1 (Major)**

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 13	Agriculture Economics	04	60

Course Outcomes :

After the completion of this course the student will be able to:

- 1 :** To demonstrate knowledge and Understand important reforms in agriculture and analyze how the agricultural sector contributes to the economy and sustainable development in India.
- 2 :** To train the students in production economics tools for agricultural decision making and to know the various types of farming and its importance in today's scenario .
- 3 :** To evaluate the various aspects of agricultural policies of pricing and marketing of agricultural products and the students acquire the knowledge of technological changes in agricultural sector.
- 4 :** To impart adequate knowledge and analytical skills in the field of agricultural finance and agricultural credit policies and its issues.
- 5:** To understand the role of WTO, Globalization and MNCs and its impact on agricultural development in India.

Module	Course Contents	Total Hours / Lectures (L)
1	<p>Agriculture and Economic Development</p> <p>1.1 Meaning, Definitions, Nature, Scope & Importance of Agricultural Economics. Role of agricultural in economic development. Interdependence between agriculture & Industry.</p> <p>1.2 Agricultural Reforms in India. Green Revolution, White Revolution</p> <p>1.3 Live Stock: Resources & Productivity.</p> <p>1.4 Irrigation : Sources and status of irrigation in India. Irrigation and its importance in agricultural development.</p>	12L
2	<p>Agriculture Production</p> <p>2.1 Impact of Technological and Biotechnological changes in Agricultural Production, Causes of low agricultural productivity in India and its remedies.</p> <p>2.2 Farm Organization: Subsistence farming, commercial</p>	12L

	<p>farming, cooperative farming, organic farming and Contract farming.</p> <p>2.3 Cropping Pattern: Meaning, importance and recent Changes in the cropping pattern.</p>	
3	<p>Agriculture Marketing and Agriculture Prices</p> <p>3.1 Agriculture Marketing: Meaning, Definitions, nature, scope and functions of Agriculture Marketing, Role of information technology and telecommunication in Agriculture Marketing.</p> <p>3.2 APMC: Regulated Markets, Structure and Functions of APMC.</p> <p>3.3 Agriculture Prices and Terms of Trade, Agriculture Prices Policies in India. National Agriculture Policy 2000, National Commission on farmers. Report of Swaminathan Ayog.</p>	12L
4	<p>Agriculture Finance</p> <p>4.1 Agriculture Finance: Objectives, importance and problems of Agriculture Finance. Innovations in agricultural finance: micro-finance, Kisan Credit Cards, Credit inclusion, e-banking, Crop Loan Scheme, Crop Insurance.</p> <p>4.2 Agriculture Credit: Role, classification and sources of Agriculture Credit, reforms in Agricultural Credit Policy.</p> <p>4.3 NABARD: Role and functions of NABARD.</p>	12L
5	<p>Agriculture and External Sector</p> <p>5.1 Role of MNCs in Agricultural sector,</p> <p>5.2 Globalization and its impact of Indian Agriculture, Impact of WTO on Indian Agriculture</p> <p>5.3 Food Security in India and public distribution system.</p>	12L
Total		60

Reference Books:

- 1) Bhaduri A. – The Economic Structure of Backward Agriculture, Macmillan, Delhi.
- 2) Dilgrami S.A.- Agricultural Economics, Himalaya Publishing House, Delhi.
- 3) Dantawala M.L.- Indian Agricultural Development ,Oxford, New Delhi.
- 4) Govt. of India, Economic Survey (Annual), New Delhi.
- 5) Kahlon A.S.and Tyagi D.S., Agricultural Price Policy in India, Allied Publisher, New Delhi.
- 6) Bilgami S.A.R.,Introduction to Agricultural Economics.
- 7) Desai - Agricultural Economics.
- 8) Mammoria C.B., Agricultural Problems of India.
- ९)कविमंडन विजय-कृषी व ग्रामीण अर्थशास्त्र,श्री .मंगेश प्रकाशन,नागपूर.
- १०)शांता पाटीलआणि लिला पाटील-कृषी अर्थशास्त्राची मुलतत्त्वे
- ११) गुप्ता पी.के.,- कृषी अर्थशास्त्र,वृंदा पब्लिकेशन्स,प्रा.लि.नईदिल्ली.
- १२)कटमुसरेएस.बी.,-महाराष्ट्राचाकृषीविकास पिंपळापुरे बुक्स डिस्ट्रीब्युटर्स, नागपूर.
- १३)ठिकरे एम. बी.,कृषी अर्थशास्त्र, स्वस्तिक पब्लिकेशन, दिल्ली.
- १४)गंगणे वर्षा, भारतीय कृषी क्षेत्र, साईज्योती पब्लिकेशन, नागपूर.
- १५)कायंदे पाटील गंगाधर,- शेतीचे अर्थशास्त्र-सिद्धांत व धोरण,चैतन्य पब्लिकेशन्स,नासिक.
- १६)पुरोहित वसुधा,- कृषीअर्थशास्त्र, विद्या बुक्स पब्लिशर्स,औरंगाबाद.
- १७)कोळंबे रंजन,-कृषी शास्त्रआणि कृषी विकास,भगीरथ प्रकाशन,पुणे.

M.A. I (Economics) Semester-I

DSE-I.A (Elective)

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 14	Statistics for Economics -I	04	60

University Exam. : 70 Marks

Internal Assessment. : 30 Marks

Course Outcomes:

After the completion of this course the student will be able to:

- 1) The students should be able to describe the basic concept of statistics.
- 2) The students should be able to understand the significance of statistics in Economics
- 3) The students should be able to understand the issues regarding the survey, data collection, classification, tabulation & presentation of data.
- 4) The students should be able to understand the role of CSO & NSSO
- 5) The students should be able to calculate & apply the measures of central tendency, dispersion, skewness, correlation & regression.

Module	Course Contents	Total Hours / Lectures (L)
1	Introduction to Statistics 1.1 Meaning & Definition of Statistics 1.2 Subject Matters of Statistics. 1.3 Scope & Functions of Statistics 1.4 Significance & Limitations of Statistics. 1.5 Statistics & Economic Planning.	12L
2	Data Collection & Statistical Survey 2.1 Meaning & Types of statistical data 2.2 Methods of data collection- Primary Data & Secondary Data. 2.3 Classification, Tabulation & Presentation of Data 2.4 Meaning, Planning & Types of Statistical Investigation (Survey) 2.5 Role of CSO & NSSO.	12L

3	Measures of Central tendency 3.1 Meaning & Definition of central tendency. 3.2 Characteristics of good Average. 3.3 Merits & Demerits of central Tendency. 3.4 Types of Statistical Averages. 3.5 Measures, – Arithmetic Mean, Median, Mode & Harmonic Mean.	12L
4	Measures of Dispersion & Skewness 4.1 Meaning & Definition of Dispersion. 4.2 Measures of Dispersion- Range, Quartile deviation, Mean Deviation, Standard Deviation& Coefficient of Variation. 4.3 Meaning & Definition of Skewness. 4.4 Types of Skewness. 4.5 Measures of Skewness- Karl Pearson's &Bowley's coefficient of skewness.	12L
5	Correlation & Regression Analysis 5.1 Meaning, Definition & Uses of Correlation. 5.2 Karl Pearson's co-efficient of correlation. 5.3 co-efficient of concurrent deviation & Spearman's Rank correlation. 5.4 Meaning & Definition of Regression. 5.5 Simple Linear Regression, Least Square Method Course Material/Learning	12L
	Total	60

Reference Book:

- 1.Gupta S.C. and Mrs. Indira Gupta: Business Statistics: Himalaya Publishing House,Delhi
2. Gupta S.C., Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
3. Gupta S.P., Introduction to Statistical Methods, S. Chand and Sons, New Delhi.
4. King W.I., The Elements of Statistical Methods, The Macmillan Co., New York.
5. Monga G.S.:Mathematics and Statistics for Economics, Vikas Publishing House, New Delhi.

6. Nagar A.L. and R.K.Das: Basic Statistics, Oxford University Press, New Delhi.
7. Sachdeva Suresh, STATISTICS, Lakshmi Narayan Agarwal Publication, Agra.
8. देशमुख राम, मुलभूत सांख्यिकी, विद्या प्रकाशन, नागपूर
9. ढोके ग. बा., सांख्यिकीय अर्थशास्त्र नाथे पब्लिकेशन, नागपूर
10. महाजन वाय. आर., सांख्यिकीय, पिंपळापुरेअँड कं. पब्लिशर्स, नागपूर.

M.A. I (Economics) Semester-I

DSE-I.B (Elective)

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 15	Rural and Urban Development	04	60

University Exam. : 70 Marks.

Internal Assessment. : 30 Marks.

Course Outcomes:

After the completion of this course the student will be able to:

1. To understand the concept of urbanization and study urbanization in developing countries.
2. To know the factors related to urbanization and see the picks of urbanization on the economy.
3. To know the meaning of urban planning understand Megha and Smart City planning.
4. To understand the problems of urbanization and to know the relation between factors of urbanization and urban development.
5. To know the government policies about urbanization & rural development.
6. To impart better education from classroom to common man.
7. To understand the development gap between urban and rural areas.
8. To know the understanding and availability of resources for rural development.
9. To understand the employment opportunities and reasons of employment opportunities and reasons of unemployment in rural & urban areas.

Module	Course Contents	Total Hours / Lectures (L)
1	Concept of Rural Development and overview the Rural Resources 1.1 Concept of Rural Development, Importance, Scope and objectives of Rural Development. Nature of cultural Transition in society. 1.2 Land, soil, climate, water and forest overview of production system containing agriculture, horticulture, Sericulture, Social Forestry, Animal Husbandry, Dairy product, Fisheries and non-farm activities. 1.3 Production system and livelihood of rural people	12L

2	<p>Cooperative Movement, Rural Labour and Rural Development Scheme</p> <p>2.1 Managing Cooperative emergence, endurance and growth of cooperatives, Principle issues in establishing agriculture cooperatives</p> <p>2.2 Rural labour supply, Interlocking of factor market, Mobility of labours and segmentation in the labour market.Migration of rural labour</p> <p>2.3 Role of Institutions in rural development. Schemes of rural development (MNREGA, PMGSY,SGRY)</p>	12L
3	<p>Introduction of Urbanization &Urbanization in India</p> <p>3.1 Meaning, Characteristics and concept of Urbanization, Factors Page 12 of 26 affecting urban growth</p> <p>3.2 Factors and trends of urbanization, urbanization and urban growth, effects of urbanization.</p> <p>3.3 Concept of Migration, active and passive migration.</p>	12L
4	<p>Urban Problems and Urban Planning in India</p> <p>4.1 Immigration, the problem of urbanization, Urban transportation, slums, Housing and urban renewal, urban water supply, crime and public health, transport and communication problems</p> <p>4.2 Concept of urban and Town planning, principles of urban planning in India</p> <p>4.3 Planning of Megacity and smart city, 21st Century Urbanization in India</p>	12L
5	<p>Urban Finance Management</p> <p>5.1 Financing of Urban Infrastructure. Municipal administration.</p> <p>5.2 Private sector participation in Financing.</p> <p>5.3 73rd and 74th constitutional amendments and local finance, Finance commission and local finance.</p>	12L
	Total	60

Reference Book:

- 1) Abraham M.F. – Modern Sociological Theory, OUP, New Delhi.
- 2) AmartyaSen – Resources, Value and Development, Basil Blackwell.
- 3) B. C. Mehata, Rural Poverty in India, Concept Publication.
- 4) Datta And Vasant Fundamentals of Rural Development, New Delhi, Rawat Publications.

- 5) Desai Vasant- Rural Development in India, New Delhi, Himalaya.
- 6) Bose A. N.- Urban Economics: A Trend Report in Indian Council of Social Publisher.
- 7) Dube K.K. and A.K.Singh, Urban Environmental in India, Inter India, New Delhi.
- 8) Report of The Task Forces on Housing and Urban Development -I, Planning of Urban Development Planning Commission.
- 9) Harris Tondon, Introduction Urban Economic Analysis and Policy, New York.
- १०) पांगुळ बाराहाते नंदा, भारतीय ग्रामीण समुदाय विकास, आर.बी. प्रकाशन, नागपूर.
- ११)जोगी कुमुदिनी, ग्रामीण विकासाची वाटचाल,सेंटर फॉर इकॉनॉमिक्स अॅंड सोशल स्टडीज, अमरावती.
- १२)कानेटकर मेघा, रुईकर वैशाली, सहकार आणि ग्रामीण विकास, श्री साईनाथ प्रकाशन, नागपूर.
- १३) गायकवाड जे. व्ही., नागरीकरणाचे स्वरूप, सेंटर फॉर इकॉनॉमिक्स अॅंड सोशल स्टडीज, अमरावती.

M.A. I (Economics) Semester-I

DSE-I.C (Elective)

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 16	Health and Environment Economics	04	60

University Exam. : 70 Marks.
Internal Assessment : 30 Marks

Course Outcomes:

After the completion of this course the student will be able to:

- 1) Create understanding about health problems, awareness and health services
- 2) To understand gender issues and remedies on the problem
- 3) It is useful to know the Governments approach against health care
- 4) It is useful to know the relation between environmental issues and various variables in the economy
- 5) Creating Knowledge about various rural and urban environmental problems and Government environment Policies
- 6) It gives information about agriculture and Industrial sector environmental problems.

Module	Course Content	Total Hours / Lectures (L)
1	Demand, Supply for Health and Women Demographic Aspects 1.1 Definition, characteristics, benefits, Nature of demand and supply of Health. Determinants of demand and good Health, Health care services. 1.2 National Health Policy, National Health Mission, Planning and Health Committees. 1.3 Importance of women Studies- age structure, Mortality rate sex ratio. Women Health- Nutrition, Education economics status.	12L
2	Financing of Health Care 2.1 Financing of Health Care and Resource constrains. PHC- Health Status indicators. 2.2 WHO – Role and Need for social health Insurance for the poor community, Health insurance policy in India. Cost of Health care, Budgeting for health care, Gender budgeting. 2.3 Health insurance policy in India- Definition, Nature, characteristics, functions, Types, Importance and Advantages.	12L
3	Elements of Environmental Economics 3.1 Meaning, Scope and nature of environmental economics, need for environmental awareness. Economics development and environment, Population and environment linkages, poverty and environmental	12L

	<p>development.</p> <p>3.2 Concepts of sustainable environmental development, Renewable and non-renewable, Natural resources and Economics and environmental development.</p> <p>3.3 Environmental policies in India.</p>	
4	<p>Environmental problems and Agricultural Development</p> <p>4.1 Environmental problems and Agricultural Development, Salinity, waterlogging, desertification of land, excess use of water, fertilizers and pesticides.</p> <p>4.2 Approaches to sustainable management. Nature and importance of cropping patterns.</p> <p>4.3 Forest policy in India – impact and importance, rural environmental problems, climate change and agriculture.</p>	12L
5	<p>Industrial Development and Environmental problems</p> <p>5.1 Industrial Development and Environmental problems- Water pollution , Air pollution, Noise pollution.</p> <p>5.2 Special Economic Zones and Environmental Issues, Concepts of green marketing, environmental audit and carbon trading.</p> <p>5.3 Urban environmental problems, Concepts and impact of Global warming</p>	12L
	Total	60

Reference Book:

1. Banerjee D. Poverty, Class and Health Culture in India, Prachi Prakashan, New Delhi.
2. Berman P. and M.E. Khan- Paying for Indians Health Care, Sage Publication, New Delhi.
3. Krishnakumar T. Rao R.N. – Financing of Health Services In India Perspectives and Issues, Dept. of Economics , University of Hyderabad.
4. Panchmukhi P. R. – Economics of Health: A Trend Report in ICSSR, A Survey of research in Economics.
5. Ali S.A.: Resources for Future Economic Growth, Vikas Publishing House New Delhi.
6. Boumol W.J. and W.E.Otes ,: The Theory of Environmental Policy, 2nd Edition, Cambridge University Cambridge.
7. Bhattacharya Aryan, Environmental Economics and Indian Perspective, Oxford University Press, New Delhi.
8. Chopra K., Kadekodi G.K., M.N. Murthy, The Management of Common Property Resources, Sage, New Delhi.
9. Hanley N., J.F. Shogern and B.White: Environment Economics in Theory and Practice, MacMaillan. 6) Lodha S.L., Economics of Environment, RBSA, Publishers, Jaipur.
10. Mehta S.S., Mundle and U.Sankar Controlling Population: Incentive and Regulation, Sage, New Delhi. 8) Garg M.R.: Environment Pollution and Protection, Deep and Deep Publication, New Delhi.
11. Murthy M.N., A.James and Misra : The Economics of Water Pollution in India. Oxford University Press, New Delhi.
12. Rathore M.S.: Environment and Development, Rawat Publication, Jaipur.

13. World Bank Report – Environment and Development, Oxford University Press, New Delhi.
14. Mulani M.U. Indian and Global Economics, SuccessesPublication, Pune.
15. GawhaleR.R.;AarthikVikasvaParyavarnacheArthashatra, Jyotichandra Publication, Latur.

Sant Gadge Baba Amravati University, Amravati
FACULTY: HUMANITIES
Session: 2023-24
Two Years- Four Semesters Master's Degree Programme- NEPv23
Program: M.A. (Economics)

Semester – II

Subject	Code of the Course Subject	Title of the Course Subject	Total Number of Periods	No of Credits
Discipline Specific Core: DSC				
DSC-I.2	Eco - 21	Advanced Micro Economics -II	75	05
DSC-II.2	Eco - 22	Advanced Macro Economics-II	75	05
DSC-III 2	Eco - 23	Public Economics	60	04
DSE-I /MOOC (Select any One) Discipline Specific Elective				
DSE-II.A	Eco - 24	Statistics for Economics – II	60	04
OR				
DSE-II.B	Eco - 25	Co-operation	60	04
OR				
DSE-II.C	Eco - 26	Human Development	60	04
Total Credits - 14 (DSC) + 04 (DSE) + 04 (Project field work) = 22				

Sant Gadge baba Amravati University Amravati.
Faculty : Humanities
Syllabus For Two Years Master's Degree (PG) in Economics Programme (NEP v 23)

M.A. I (Economics) Semester-II
DSC-I.2 (Major)

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 21	Advanced Micro Economics - II	05	75

University Exam. : 70 Marks

Internal Assessment. : 30 Marks.

Course Outcomes: After Completing the course, the students will be able -

- 1 :** To equip students with the knowledge and analytical skills to understand how prices and quantities are determined in different market structures. This understanding is valuable for economists, business managers, policymakers, and entrepreneurs to make informed decisions and develop effective strategies in a competitive market environment.
- 2 :** To equip students with the knowledge and analytical skills to understand the behavior of firms in these markets and the strategic interactions that influence market outcomes.
- 3 :** To provide students with a comprehensive understanding of the principles and theories that explain the distribution of income in different economic systems.
- 4 :** To equip students with the knowledge and analytical skills to assess and design economic policies that contribute to overall societal welfare and well-being.

Unit	Contents	Periods
Unit I	Price and Output Determination-I 1.1 Pricing Under perfect Competition Short and Long Term Equilibrium. 1.2 Monopoly Price output Equilibrium under Monopoly 1.3 Price Discrimination, Measurement of the degree of Monopoly Power	15L
Unit II	Price and output Determination-II 2.1 Concepts of Monopolistic and Imperfect Competitions 2.2 Price and non-price competition, Group Equilibrium, Product Differentiation, Excess Capacity, Selling costs	15L

	2.3 Short and Long Term Equilibrium under Monopolistic Competition, Theory of Excess Capacity Chamberlin approaches	
Unit III	Duopoly and Oligopoly 3.1 Duopoly Models. Cournot's Model, Bernard Model and Edgeworth's Model 3.2 Price Leadership Model, Kinked Demand Curve 3.3 Baumol's Sales Revenue Maximization Model, Game Theory	15L
Unit IV	Theory of Distribution 4.1 Marginal Productivity Theory- (Marshall, Hicks) 4.2 Ricardian Theory of Rent, Scarcity Rent, Quasi Rent 4.3 Theories of Interest (Neoclassical, Keynes & Modern), Theories of Profit (Schumpeter, Clark) Marginal Theories of Wages.	15L
Unit V	Welfare Economics 5.1 Individual and Social Welfare, Parato's Criterion of Social Welfare 5.2 Kaldor - Hicks Welfare Criteria, Arrow's theory of Social choice 5.3 Rawls's theory of Justice, Amartya Sen's Social choice theory	15L

Books Recommended:

1. Ahuja H. L. Advanced Economic Theory: Micro Economic Analysis, 13th Edition, S. Chand and co. Ltd., New Delhi
2. Baumol W. J., Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi 3) Dewett K.K., Modern Economic Theory, S. Chand and Co. Ltd., Revised Edition 2005
3. Jhingan M.L., Micro Economic Analysis, Vrinda Publications, New Delhi
4. Koutsoyiannis A., Modern Economics, 2nd Edition, Macmillan Press London
5. Kreps David M., A course in Micro Economics Theory, Princeton University Press, Princeton
6. Sen, A Micro Economics: Theory and Applications, Oxford University Press, New Delhi
7. Stigler, G. Theory of Price, 4th Edition, Prentice Hall Of India, New Delhi 9) Seth M.L., Micro Economics
8. Varian, H. Micro Economic Analysis, W.W. Norton, New York. –
9. झिंगन एम. एल., उच्च आर्थिक सिद्धांत, वृंदा पब्लिकेशन्स प्रा. लि. दिल्ली.
10. पिंपरकर ग.प्र.- मुल्य व वितरण सैध्दांतिक विवेचन, मराठी अर्थशास्त्र परिषद.
11. पाटील कृ.ए.उच्चतर आर्थिक सिद्धांत, श्री मंगेश प्रकाशन, नागपूर. – सुक्ष्म अर्थशास्त्र मुल्य सिद्धांत अद्वैत प्रकाशन, अकोला.

12. खांदेवाले श्रीनिवास – किंमत सिद्धांत पिंपळापुरे प्रकाशन, नागपूर.
13. तिवारी एच. आर. सुक्ष्म अर्थशास्त्र मुल्य सिद्धांत अद्वैत प्रकाशन, अकोला.
14. माहोरे रामदास, माहोरे समित, अर्थशास्त्राचे सिद्धांत, साईज्योती पब्लिकेशन, नागपूर.

M.A. I (Economics) Semester-II

DSC-II.2 (Major)

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 22	Advanced Macro Economics-II	05	75

University Exam. : 70 Marks.

Internal Assessment : 30 Marks .

Course Outcomes:

After the completion of this course the student will be able to:

- 1) It will enable students to handle macroeconomics theories and related macroeconomics issues.
- 2) It will enable students to understand the effects of macroeconomic decisions taken by Governments.
- 3) This study will enable students to collect the data on macroeconomics level and analyze it and draw the suggestions, over macroeconomic problems.
- 4) This study shall enable to compare economic conditions of various countries and also of various regions among the country.
- 5) Theory of interest rate will be useful to guide saving and investment.
- 6) This course is useful for understanding various real economic issues and evaluating them.
- 7) Policy outcomes.

Module	Course Contents	Total Hours / Lectures (L)
1	Unit: I Theories of Interest Rates 1.1 Rate of Interest – Classical, Neoclassical, Liquidity Preference theory of Interest, Modern Theory of Interest (IS-LM Model) 1.2 Relative effectiveness of Monetary and Fiscal Policies. 1.3 Interest rates and price expectations – Nominal and real interest rates.	15L
2	Unit: II Theory of Inflation	

	<p>2.1 Inflation – Meaning and types, Effects of Inflation, Inflation in Developing Economies.</p> <p>2.2 Keynesian Theory – Demand Pull, Cost Push and mixed inflation, Concept of Inflationary Gap.</p> <p>2.3 Schultze’s Demand Shift Inflation Theory</p>	15L
3	<p>Unit: III Inflation of Developing Economies</p> <p>3.1 Meaning of Stagflation, measure to control Stagflation, deflation-meaning and effects, concept of deflationary gap.</p> <p>3.2 Philips Curve Analysis – Meaning, Tobin’s modified Philips Curve.</p> <p>3.3 Milton Friedman’s (Long Run) & Friedman’s Expectation Model.</p>	15L
4	<p>Unit: IV Post-Keynesian Demand for Money</p> <p>4.1 Classical Approach</p> <p>4.2 Keynesian Approach</p> <p>4.3 Post Keynesian Approach (Modern Approach)- Baumol (Inventory Approach), Tobin's model, Milton Friedman’s, Patinkin's Monetary Model (Real Balance Effect).</p>	15L
5	<p>Unit: V Trade Cycle and Financial Markets</p> <p>5.1 Trade Cycle – Nature, Definitions and Phases.</p> <p>5.2 Theory of Trade Cycle- Hawtrey, Hicks, and Schumpeter’s Innovation Theory.</p> <p>5.3 Money and Capital Markets : Meaning and Characteristics, Control of Business Cycles.</p>	15L
Total		75

Reference Books:

- 1) Ahuja H.L., : Macro Economics for Business and Management, S. Chand and co. Ltd., New Delhi.
- 2) Blackhouse, R. and A. Salansi, Macro Economics and The Real World (2nd Volume) Oxford University Press, London.
- 3) D'Souza, Errol, Macro Economics, Pearson Education , Delhi.
- 4) Gupta R.D. and Rana A.S.:Post- Keynesian Economics, Kalyani Publishers, Ludhiana.
- 5) Heijdra, B.J. and V.P. Frederick, Foundations of Modern Macro Economics, Oxford University Press, New Delhi.
- 6) Jha, R., Contemporary Macro Economic Theory and Policy, Wiley Eastern Ltd., New Delhi.
- 7) Jhingan M.L., : Macro Economics.
- 8) Keynes J. M. : General Theory Of Employment and interest and Money.
- 9) Mithani D.M. , Money, Banking, International Trade andPublic Finance, Himalaya Publications.
- 10) Rakshit , M., Studies in the Macro Economics Of Developing countries, Oxford University Press, New Delhi.
- 11) Reddy Y.V., A Review Of Monetary and Financial Sector Reforms In India, UBSTD, New Delhi.
- 15) Shukla D.K.:Business Cycle Analysis.
- 13) Turnovsky, Methods of Macro Economic Dynamics.
- 14) प्रा.राम देशमुख, आधुनिक अर्थशास्त्र.
- 15) डॉ. माहोरे रामदास, व्यापार चक्राचे सिद्धांत, साईज्योती प्रकाशन, नागपूर.

**M.A. I (Economics) Semester-II
DSC-III.2 (Major)**

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 23	Public Economics	04	60

University Exam. : 70 Marks.

Internal Assessment.: 30 Marks.

Course Outcomes:

After the completion of this course the student will be able to:

- 1:** To develop an understanding of various aspects of Public Finance and the sources both public and private and principles of Maximum Social Advantage.
- 2 :** To understand the familiarity with micro and macro aspects of Public Expenditure and the causes of growing public expenditure.
- 3 :** To understand the public debt and its impact on common people.
- 4 :**To understand the various taxes among various classes of people and to know the general trend and impact of tax burden.
- 5 :**To understand the mechanics of government budget and fiscal policy of India and to deliver the preparation of budget and how they are passed in the house.

Module	Course Contents	Total Hours / Lectures (L)
1	<p>Introduction</p> <p>1.1 Meaning, Definitions, Nature, Scope and importance of Public Economics.</p> <p>1.2 Distinction between public & private finance- public goods vs. private goods, Social goods, Merits & Mixed goods.</p> <p>1.3 Principle of Maximum Social Advantage.</p>	12L
2	<p>Public Expenditure</p> <p>2.1 Meaning & Nature of Public Expenditure.</p> <p>2.2 Classification of Public Expenditure.</p> <p>2.3 Major areas of public expenditure in India.</p> <p>2.4 Causes and Effects of increasing Public Expenditure in India.</p>	12L
3	<p>Public Debt</p> <p>3.1 Meaning, nature & importance of Public Debt.</p> <p>3.2 Classification of Public Debt.</p> <p>3.3 Causes and Effects of increasing Public Debt.</p> <p>3.4 Public Debt in India.</p>	12L

4	Public Revenue 4.1 Meaning, types and other sources of Public Revenue. 4.2 Taxation: meaning and base of tax system effects of Taxation, An ideal tax system. 4.3 Direct and Indirect Tax. 4.4 Goods & Service Tax (GST):Forms of GST, impact of GST	12L
5	Public Budget & Fiscal Policy 5.1 Budget: Meaning, Types of Budget, Central Budget of India. 5.2 Fiscal Policy: Meaning & Objectives of Fiscal policy. 5.3 Finance Commission & its recommendations in India. 5.4 NITI Aayog :Objectives and features, functions of NITI Aayog.	12L
Total		60

Reference Books:

- 1) Bhatia R.L., Public Finance
 - 2) Chelliah Raja,- Fiscal Policy in Underdeveloped Countries.
 - 3) Daltan H.,-Principles of Public Finance.
 - 4) Hicks Ursula,-Development Finance.
 - 5) Misra B.,- Economics of Public Finance.
 - 6) Saxena and Mathur ,- Public Finance.
 - 7) Singh S.K., - Public Finance in Theory and Practice.
 - 8) Tyagi B.P.,- Public Finance.
 - 9) Government of India,Reports of the Finance Commission.
 - 10) Bhadane Jaywant,(2020),GST : Smart Taxation System, International Publication, New Delhi.
- ११)ओसरकर एस.आर.,- राजस्व.
१२) देव व झामरे - राजस्व.

**M. A. I (Economics) Semester-II
DSE-II.A (Elective)**

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 24	Statistics for Economics – II	04	60

Universitu Exam. : 70 Marks.

Internal Assessment. : 30 Marks.

Course Outcomes:

After the completion of this course the student will be able to:

- 1) The students should be able to understand the concept of Sampling & Estimation.
- 2) The students should be able to use of sample survey on various issues.
- 3) The students should be able to test of Hypothesis by using various statistical test.
- 4) The students should be able to understand time-series trends & calculate it for forecasting.
- 5) The students should be able to understand & Uses of Probability.
- 6) The student should be able to calculate Index Number

Module	Course Contents	Total Hours / Lectures (L)
1	Sampling and Estimation 1.1 Basic concepts and importance of sampling 1.2 Types & Methods of sampling(Random & Non Random) 1.3 Advantage of sample survey 1.4 Agriculture & Industrial Statistics , Recent Population Census. 1.5 Estimation –Meaning , charecteristics ,types & importance	12L
2	Statistical Test 2.1 Test of significance (Confidence intervals and level of Significance) 2.2 F – Test- Uses & Measures 2.3 T-Test –Uses & Measures 2.4 Chi- Square – Uses & Measures 2.5 ANOVA	12L
3	Time Series Analysis 3.1 Meaning & components of time series 3.2 Types of components & Trends	12L

	3.3 Method of semi average 3.4 Least Square Method 3.5 Method of moving average	
4	Probability 4.1 Meaning & Definition of Probability 4.2 Classical & Empirical Definition of Probability 4.3 Deterministic and Non-deterministic experiments 4.4 Types of Events 4.5 Laws of Addition and Multiplication Theory of Probability	12L
5	Index Numbers 5.1 Meaning & Scope of Index Number 5.2 Characteristics, Uses, limitations & Types of Index Numbers 5.3 Simple Aggregative & Simple Average of Price Relative Method 5.4 Weighted Aggregative Method & Price Relative Method 5.5 Test of Adequacy - Time & Factor Reversal Test. 5.6 Cost of Living Index Number- Meaning ,importance & types.	12L
Total		60

Reference Book:

1. Gupta S.C. and Mrs. Indira Gupta: Business Statistics: Himalaya Publishing House, Delhi
2. Gupta S.C., Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
3. Gupta S.P., Introduction to Statistical Methods, S. Chand and Sons, New Delhi.
4. King W.I., The Elements of Statistical Methods, The Macmillan Co., New York.
5. Monga G.S.: Mathematics and Statistics for Economics, Vikas Publishing House, New Delhi.
6. Nagar A.L. and R.K. Das: Basic Statistics, Oxford University Press, New Delhi.
7. Sachdeva Suresh, STATISTICS, Lakshmi Narayan Agarwal Publication, Agra.
8. देशमुख राम, मुलभूत सांख्यिकी, विद्या प्रकाशन, नागपूर
9. ढोके ग. बा., सांख्यिकीय अर्थशास्त्र नाथे पब्लिकेशन, नागपूर
10. महाजन वाय. आर., सांख्यिकीय, पिपळापुणे अँड कं. पब्लिशर्स, नागपूर

**M. A. I (Economics) Semester-II
DSE-II.B (Major)**

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 25	Co-operation	04	60

University Exam. : 70 Marks.

Internal Assessment.: 30 Marks

Course Outcomes:

After the completion of this course the student will be able to:

1. To understand the principle of cooperation and the values of cooperative institutions.
2. To understand the origin and development of the Cooperative movement.
3. To know the role of NAFED & Co-operative agro-based industries.
4. Examine the various types of co-operative society.
5. Create awareness about the working of cooperative organizations in rural and urban areas.
6. To know the role of the financial institute framework.
7. Will be developing the accounting, audit & role of the cooperative auditor.

Module	Course Contents	Total Hours / Lectures (L)
1	<p>Introduction</p> <p>1.1 Co-operation – Meaning, Definition, Principle of Co-operation 1.2 Characteristics, Importance and Need of Co-operation 1.3 Origin and development of Co-operative Movement in India. 1.4 International Co-operative Alliance (ICA)- Organization and function</p>	12L
2	<p>Work and Function</p> <p>2.1 Structure of Co-operative society 2.2 Marketing Co-operative societies, Consumer's Co-operative societies - Present position, Problems and Remedies 2.3 Sugar Factories, Cotton (Soot) Mills of Maharashtra- Present position, problems and remedies, Cooperative Agro-based industries 2.4 Role of NAFED, Role of Co-operative in a mixed economy</p>	12L
3	<p>Financial Institute</p> <p>3.1 Cooperative banks- Meaning and Structure 3.2 Cooperative banks- State co-operative, Dist. Central Cooperatives bank- importance and function 3.3 National Bank for Agriculture and Rural Development (NABARD)- Objective, Importance and Function</p>	12L

	3.4 National Cooperative Development Corporation (NCDC) - objective, importance and function	
4	Account and Audit 4.1 Book Keeping- Meaning, Importance and Advantages 4.2 Format of trading account, profit and loss account 4.3 Finance sheet-meaning and definition, objectives and importance of audit, various types of audit 4.4 Role of cooperative auditor	12L
5	Cooperative Legislation in India 5.1 Formation of M.S. Cooperative act – 1960: Registration, Bylaws, Membership, Capital. Meeting, Meeting notice, Minutes and method of Resolution 5.2 97th constitutional amendment and main changes in Maharashtra cooperative societies act 5.3 National Co-operative Union of India (NCUI)- Objectives and Function, Role of NCUI in development 5.4 NITI Aayog :Objectives and features, functions of NITI Aayog.	12L
Total		60

Reference Book:

1. Gavale Rajendra R. – Principles of Cooperation (Marathi), Jyotichandra Publications, Latur.
2. Jadhav T.S. – Structure and Function Of Cooperative Institute (Marathi).
3. Joseph Clayton- Co-operation, Franklin Classics Publisher, United States of America.
4. Kulkarni R.K. – Theory and Practice cooperation in India and Abroad Volume – I,II,III.
5. Mammoria C.B. and Saxena R.D. -Cooperation In India.
6. Martyn Caroline E D- Co-operation, Classic Reprint Series, Forgotten Books Publisher, India.
7. Mathur B S – Co-operative in India, Rajeev’s SahityaBhawan, SBPD Publication, Agra, Uttar Pradesh.
8. Raikhalkar A.R. and Dange Ashok – Cooperation: Principles and Practice (Marathi).
9. Shah Rupa and Damji B.H. – Cooperation (Marathi), FadkePrakashan, Kolhapur

M.A. I (Economics) Semester-II
DSE-II.C (Elective)

Code of the Course	Title of the Course	Credit	Total No. of Periods
Eco - 26	Human Development	04	60

University Exam. : 70 Marks.

Internal Assessment. : 30 Marks.

Course Outcomes:

After the completion of this course the student will be able to:

1. To know about the concept of human development and gender equality.
2. To analyses the human development index of various countries.
3. To compare the human development in Indian states.
4. To know about the investment and expenditure of government for the creation of human capital.
5. To aware about the overall development and human development.
6. To know about the New Education Policy 2020 for Higher Education.

Module	Course Contents	Total Hours / Lectures (L)
1	<p>Nature of Human Development</p> <p>1.1 Human Development - Definitions, Characteristics, Need and Components of Human Development.</p> <p>1.2 Human Development and Economic Development, Human Resource Development; Usefulness of concept.</p> <p>1.3 Human Development and Gender-Sex Ratio, Women Empowerment measure of Women Empowerment and Gender Equity Index.</p>	12L
2	<p>Measurement of Human Development</p> <p>2.1 Human Development Index – Concept, Indicators, Measurement and Limitations of Human Development Measure.</p> <p>2.2 Political Freedom – Index of Economic Freedom.</p> <p>2.3 Human Development and Poverty- Human Development Factors of Poverty, Human Poverty Indx and Multidimensional Poverty Index.</p>	12L
3	<p>Human Development In India</p> <p>3.1 Human Development and Economic Growth with Indian Context, India : Trends of HDI</p>	12L

	3.2 Status of Human Development in India and inter State Comparison. 3.3 Human Development and Poverty-concept and Measurement of poverty.	
4	Expenditure on Human Development in India 4.1 Importance and Role of Education in Human Development. 4.2 Human Development Expenditure in India and States (Public Spending) Primary Education, New Education Policy & Higher Education. 4.3 Human Development and India's disadvantaged Group.	12L
5	Social Capital and Human Rights 5.1 Social Capital – Economic Attainments and Well-being. 5.2 Millennium Development Goals and Sustainable development. 5.3 Human Development and Human Rights, Human Development and Backward classes.	12L
Total		60

Reference Book :

- 1) Baru : Private Health Care In India, Social Characteristics and Trends. Sage Publications, New Delhi
- 2) Dwivedi R. S.: Human Relations and Organizational Behaviour - Global Perspectives, MacMillan India
- 3) Human Development In South Asia, 2001 – Published for the Mahbubul Haq, Human Development Center, Oxford
- 4) Michael V.P., Human Resources Management and Human relations, Himalaya Publishing House, Mumbai
- 5) National Human Development Report, Govt. Of India, 2002
- 6) Subbarao P.: Essentials Human Resources Management and Industrial Relations, Himalaya Publishing House, Mumbai
- 7) Tilak J.B.G.: Education for Development in Asia, Sage Publications, New Delhi.
- 8) Nannaware M. K. : Human Development (मानवीविकास), Pritam Publications, Jalgaon.
- 9) Datta Ruddar, Human Development and Economic Development, Deep and Deep Publications, New Delhi
- 10) Mulani M.U., Indian And Global Economics, Success Publications, Pune.
- 11) UNDP – Human Development Reports, Annual Reports
- 12) नन्नावरे एम. के. : मानवी विकासाचे अर्थशास्त्र, अथर्व पब्लिकेशन्स, जळगाव.
