

Dr. Shakuntala Misra National Rehabilitation University, Lucknow, UP
Department of Economics
Syllabus
MA Economics (One Year PG)

MA Year 1, Sem-I
Economics of Growth and Development

Programme/Class : Degree/M.A	Year: 1	Semester: I
Subject: Economics		
Course Code: ECO101T	Course Title: Economics of Growth and Development	
Course Learning Outcomes:		
I. Students will have the tools to understand fundamental of economic growth and economic development.		
II. They will also learn the different approaches to economic growth and development and will be able to distinguish one approach from the other.		
III. It is expect of the students to be able to conduct independent research in these areas in the form of dissertation at this level.		
IV. Knowledge about development issues, both from a theoretical as well as empirical perspective.		
Credits: 5		Core Course
Max. Marks: 25 + 75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): 5		
Unit	Topics	No. of Lectures
I	Concept of Economic Growth & Economic Development. Approaches to Economic Development. Core Values of Development. Concept of Underdevelopment & Development Gap. Common Characteristics of Developing Countries.	7
II	Theories of Economic Development: Adam Smith, Ricardo, Marx, Schumpeter, Rostow.	10
III	Models of Economic Growth: Harrod- Domar, Solow, Robinson, Kaldor. Technical Progress: Disembodied & Embodied. Endogenous Growth	16
IV	Concept & Measurement of - Physical Quality of Life Index (PQLI). Human Development Index (HDI). Measuring Income Inequality- Absolute & Relative Income Method, Lorenz Curve and Gini coefficient.	15
V	Dualistic Structure of Underdeveloped economies. Dualistic Models- Boeke, Lewis & Fei-Ranis. Vicious Circle of Poverty. Myrdal's Theory of Cumulative Causation. Dependency Theory.	12
Suggested Readings:		
❖ Ahuja, H.L (2016): Development Economics. S. Chand and Company. ISBN-10-		

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- ❖ Ghatak, S., *An Introduction to Development Economics*. Allen and Unwin London, latest edition.
- ❖ Hayami, Jujiro and Yoshihisa Godo : *Development Economics*. Oxford University Press
- ❖ Hendrik Van Den Berg, *Economic Growth and Development*, McGraw-Hill International Edition, 2005.
- ❖ Meier, G.M., *Leading Issues in Economics Development*, Oxford University Press, New Delhi, Latest Edition.
- ❖ Mukherjee, Aparajita Saumya Chakrabarti : *Development Economics-A Critical Perspective*. PHI Learning.
- ❖ Thirlwall, A.P. and Penélope Pacheco-López (2017): *Economics of Development-Theory and Evidence*
- ❖ Todaro, Michael.P & Smith, Stephen.C (2011): *Economic Development*, Pearson.

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MA Year 1, Sem I
Mathematical Methods for Economic Analysis
(Theory) Core Course

Programme/Class MA Economics	Year: First	Semester: I
Subject: Economics		
Course Code: ECO102T	Course Title: Mathematical Methods for Economic Analysis	
<p>Course Learning Outcomes: The objective of this paper is</p> <ul style="list-style-type: none"> • To develop a mathematical approach in analysis of economic problems. • It mainly focuses on those mathematical techniques which are directly useful in economic analysis. • All the techniques are explained with examples of economics. 		
Credits: 5		Core Course
Max. Marks:25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Static Analysis: Economic Models, Concept of Matrix- their types, Simple Operations and Matrices, Determinants and their Basic Properties, Solution of Simultaneous Equation through Cramer's Rule, Matrix Inversion and Transpose, Rank of Matrix.	15
II	Elementary Trigonometry and Coordinate Geometry: Elements of Trigonometry and Coordinate Geometry; Trigonometric functions and identities. Two – dimensional coordinates; Plotting of curves; Straight line; Parabola and Hyperbola.	12
III	Differential Calculus : First order derivative and its application in Economics; Slope and elasticity of demand, Determination of Marginal revenue, marginal cost and marginal product; Second order derivative and its application in Economics; Point of inflexion, concavity and convexity of curve	12
IV	Partial and Total Differentiation: Determination of Partial Derivatives of first and higher order, Young's Theorem, Application of Partial Differentiation in Economics, Constrained Optimization, Determination of Total Derivatives and its Application in Economics	12
V	Dynamic Analysis: Dynamics and Integration, Definite and Indefinite Integration, Applications – Measuring Consumer and Producer Surplus, Difference and Differential Equations.	12

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VI	Optimization Problems: Unconstrained Optimization, Constrained Optimization with Equality Constraints, Lagrangian Methods; Application-Utility Maximization, Cost Minimization, Profit-Output Maximization; Linear Programming Problems – Constrained Optimization with Inequality and Non-Negativity Constraints; Input and Output Analysis.	12
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Suggested Readings:

- ❖ Allen, R.G.D. (1967): Mathematical Analysis for Economists, Macmillan.
- ❖ Baumol, W.J. (1970): Economic Dynamics, Macmillan, London.
- ❖ Baumol, W.J. (1984), Economic Theory and Operational Analysis, Prentice Hall.
- ❖ Black, J and J.K. Bradley (1973), Essential Mathematics for Economists, John Wiley and McGraw Hill, NY
- ❖ Budnick, F.S.(1993): Applied Mathematics for Business, Economics and Social Sciences.
- ❖ Chiang, A.C. (1986), Fundamental Methods of Mathematical Economic, Megraw Hill, New York.
- ❖ Dorfman, Samuelson and Solow (1958): Linear Programming and Economic Analysis, Englewood Cliffs, New Jersey.
- ❖ Hadley, GC. (1962), Linear Programming, Addison Wesley Publishing Co. Massachusetts.
- ❖ Handry, A.T.(1999); Operation Research, Prentice Hall, ND. □ Henderson (2003): Microeconomic Theory- A Mathematical Approach (3a), McGraw Hill.
- ❖ Hoy, Livernois, Mckenna, Rees and Stengos (2004): Mathematics for Economics, Prentice Hall, ND.
- ❖ Kothari, C.R. (1992) An Introduction to Mathematical Finance, Cambridge University
- ❖ Nicholson, R.H.(1986): Mathematics for Business and Economics, McGraw Hill, NY.
- ❖ Samuelson, P.A.(2005): Micro Economics (18e), McGraw Hill, International Edition.
- ❖ Simon C.P. and Blunie, L (1994) Mathematics for Economists, W.W. Norton & Company Sons.
- ❖ Sydsaeter, Knut and Hammond, Peter J.(1995) Mathematics for Economic Analysis, Pearson Education Asia.
- ❖ Taha, H.A. (1998): Operational Research: An Introduction (7e), Prentice Hall, ND
- ❖ Takayama, A. (1974): Mathematical Economics, Dryden Press, Hinsdale, III.
- ❖ Vygodsky, G.S.(1971), Mathematical Handbook (Higher Mathematics), Mir Publishers
- ❖ Yamane Taro, (1975), Mathematics for Economists, Prentice Hall of India, New Delhi

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MA Year 1, Sem I
Monetary Economics
(Theory) Elective Course

Programme/Class MA Economics	Year: 1	Semester: I
Subject: Economics		
Course Code: ECO103T	Course Title: Monetary Economics	
Course Outcomes: <ul style="list-style-type: none"> ● Taking in to account to the fast development of Indian financial sector and increasing role of monetary policy, ● This paper aims to generate theoretical and applied understanding of monetary economics. ● This paper will enable the students to learn the role and functions of Commercial banks and Central Banks. ● The students will learn about the NBFIs and cooperative banks. ● The students will be able to know about the financial markets and their role. 		
Credits: 5	Elective Course	
Max. Marks:25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Measures of Money Supply: Old Compilation, new compilation, Theories of the money demand – Portfolio demand for money, Theories of the money supply – H theory; Money Multiplier Process, Factors affecting H, Adjusted H Transmission mechanism of monetary policy – interest rate, exchange rate, price and output	12
II	Theories of inflation determination –Concept, CPI and WPI, Analysis of structural rigidities and monetary factors, Inflation targeting , Theories of interest rate determination– Classical, Neo-Classical, Keynesian , Modern Theory, assessment of real vs monetary factors,	12
III	Commercial Banks – structure, classification, and evaluation, Process of Credit Creation, Leakages of Credit Creation Cooperative banks – structure, classification and evaluation, PACs, PCBs Development banks: All Indian Development Banks, State Level Industrial Development Banks, EXIM Bank, NABARD, Land Development Banks Non-Bank Financial Intermediaries - Definition and types of non-bank financial institutions: LIC, GIC, Provident/Pension Funds,	12

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IV	Central Bank – Structure and Functions; Role of Central Bank in controlling credit: Quantitative and Qualitative Measures, Reserve Bank of India: Controller of money Supply and Credit, Exchange Management and Control, RBIs Promotional role, The Aims and objectives of monetary policy in developed and developing countries, Instruments of Monetary policy – Credit creation and the control; Monetary- credit policy of the Reserve Bank of India	12
V	Financial markets – Role and structure of money and capital market, money market- call money market, Treasury bill market, commercial bill market; Government securities market – development of primary and secondary market; Markets for derivatives - futures and option, SEBI; The impact on the working capital market in India, Foreign Exchange Market.	12

Suggested Readings:

- Bhole, L.M. (2000), Indian Financial System – Chung Publications, Allahabad.
- Goldsmith, R.W. (1969) Financial Structure and Development, Yale, London.
- Alan A. Rabin(2006), Monetary Theory, Edward Elgar, UK 4. Gupta, S.B. (2002), Monetary Economics, S.Chand& Company, New Delhi.
- Gupta, S.B. (2002), Monetary Economics, S.Chand & Company, New Delhi.
- Sayers,R.J.(1962) Modern Banking, OUP, New Delhi.
- Verma, J.S. (1989); A Manual of Merchant Banking, Bharat Law House, New Delhi.
- Bhatt, R.S.(1996), UTI and Mutual Funds: A study UTI Institute of Capital Market, Mumbai.
- Sahadevan, K.G. and M.T. Thiripalaraju (1997), Mutual Funds, PHI, New Delhi.
- Fisher, D.E. and R.J. Jordan (1992), Security Analysis and Portfolio Management, Estern Economy Edition, New Delhi.
- Wellia, P. (1992), The Theory of Future Markets, Blackwell, Oxford.
- Gupta, L.C.(1999 Ed.), India’s Financial Markets and Institution, Society for Capital Research and Development, Delhi.
- Levi, Maurice D (1996) International Finance: The Markets and Financial Management of Multinational Business Services.

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MA Year 1, Sem I
Ethics & Economics
(Theory) Elective Course

Programme/Class MA Economics	Year: First	Semester: I
Subject: Economics		
Course Code: ECO104T	Course Title: Ethics & Economics	
<p>Course Learning Outcomes: Through this course students should be able to:</p> <ul style="list-style-type: none"> ● Acquire the knowledge about the Economic Philosophic schools and their central doctrines. ● To identify the connection between ethical and economic concepts. ● Know the importance of ethical standards for the market. ● Get an insight of Ethics, market and government regulations. ● Understand the Social Norms Culture and development. ● Attain the knowledge of classical approaches. ● Get an Insight of human behavior and know about happiness and subjective well-being. 		
Credits: 5	Elective Course	
Max. Marks:25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Ethics or moral philosophy, Defining Ethics, Ethical concepts vs. Economic Concepts, Economic Philosophic school and central doctrines: Indian Knowledge System: Kautilya's Arthashastra: a treatise on Statecraft and some other related issues.	12
II	Western Philosophy: Adam Smith as moral philosopher, Utilitarianism: Bentham, John Stuart Mill. The Markets and Smith's invisible hands. Self-Interest vs. greed. Rationalist Morality by Emanuel Kant. Ethical issues and market System.	12
III	Self Interest and welfare economics: Amartya Sen, Welfare, Efficiency and Ethics, Welfare Economics and externalities, What is economic justice, Theories of Justice: Aristotle, John Rawls	12
IV	Self Interest vs. Social Goods Nassal William Senior: Theory of Abstinence and capital formation, Ethics, market and government regulations: Corporate Social Responsibility, Indian Knowledge related to Corporate Governance values and ethics.	12

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V	Values and Economics, ethics and integrity, Moral, Social Norms Culture and development, Indian Culture and Economic interface, Code of Conduct, Defining corruption, causes of Corruption, Approaches to reducing Corruption.	12
VI	“The character of Individual so far affects his own happiness.” by Adam Smith. The evidence of happiness, from happiness to subjective well-being. Gross National Happiness Index. Indian Knowledge system in relation to acquiring a state of happiness, Some practical aspects.	15

Suggested Readings:

- Teaching the Ethical Foundations in Economics; National Council on Economic Education, New York
- Smith, Adam (2008) The Theory of Moral Sentiments, B.N Publishing.net.
- Arthshastra Kautilya (2000), India Penguin Classics. ISBN: 9780140446036
- Hirata, Johannes (2011), Happiness, Ethics and Economics, Routledge Canada and USA
- Williams, Roan & Elliott Larry (2010), Crisis And Recovery Ethics Economics and Justice, Palgrave Macmillan.
- Jain, V.K & Biyani Omprakash (2008), Business Ethics and Communication, S Chand, New Delhi.
- Vasisht, Neeru & Rajput, Namita (2010) Corporate Governance Values & Ethics, Taxmann, New Delhi.
- Samuelson, Paul.A & Nordhaus, William D. (2012) Tata McGraw Hill Education Private Limited, New Delhi.
- Sen, Amartya (2001) : On Ethics And Economics, Oxford University Press. *Sen, Amartya (2001) : On Ethics And Economics, Oxford University Press.*
- Dutt, Amitava Krishna & Wilber, Charles.K (2013) : *Economics and Ethics: An Introduction, Palgrave MacMillan.*
- Backerman, Wilfred (2011) : *Economics as Applied Ethics: Value Judgements in Welfare Economics, Palgrave MacMillan.*
- Graafland, Johan.J (2009) : *Economics, Ethics and the Market: Introduction and Applications, Routledge.*
- Sen, A.K & Williams, B (1982) : *Utilitarianism And Beyond, Cambridge University Press.*
- Rawls, John (1971) : *Theory Of Justice, Harward University Press.*
- Roemer, John (1982) : *Free To Lose, Harward University Press.*
- Sen, Amartya (1999) : *Aarthik Vikas Aur Swatantra (Hindi), Neha Publishers & Distributors.*

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MA Year 1, Sem I
Labour Economics
(Theory) Elective Course

Programme/Class MA Economics	Year: First	Semester: I
Subject: Economics		
Course Code: ECO105T	Course Title: Labour Economics	
Course Learning Outcomes:		
<ul style="list-style-type: none"> ● The objective is to obtain an appreciation of the theory and reach of labour Economics. ● The Students will understand how the labour market can be analyzed from a different economic perspective. ● Students will become familiar with the wage and employment determination. ● Students will understand the role of the state and unions in the labour market. ● To understand how the labour market works from both a microeconomic and a macroeconomic standpoint. 		
Credits: 5	Elective Course	
Max. Marks: 25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 4-0-0		
Unit	Topics	No. of Lectures
I	Labour Economics- Nature, scope and importance of labour Economics, Demand and supply of labour, characteristics of labour, labour migration, labour productivity.	12
II	The labour market- Definition of the labour market, Difference between labour market and commodity market, characteristics of labour market in India, Labour market reforms- exit policy, safety retirement, National commission of labour, Globalization and labour market.	12
III	Industrial and agricultural labour- Theories of labour movement, Growth pattern and structure of labour unions in India, Industrial disputes and their settlement, trend in collective bargaining. Agricultural labour market- Rural labour supply, Nature and trend in rural employment, Agricultural wage in India.	12
IV	Wage Determination- Classical, Neo-classical and Modern Theory of Wage determination, Concepts of Minimum wage, Living Wage and fair wage in theory and practice. Wage determination in Various Sectors; Rural, Urban, Organized, Unorganized and informal sector, Analysis of rigidity in labour market, National Wage policy in India. Discrimination in the Labour Market.	12

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V	Poverty and Unemployment in developing countries. Unemployment - Concept, Types, and Measurement particularly in India. Employment Policies in India. Technological change – Artificial Intelligence and Automation, Algorithmic management, Digital labour market & Gig economy, Labour market and Data Analytics.	12
VI	Inequality in labour market, Social Security and Reforms- Social Security in India; Need of social security, social insurance and social assistance, workmen compensation act, maternity benefit and employees state insurance scheme, women and child labour.	15

Suggested Readings:

- ❖ Hajela, P.D, Labour Restructuring in India: A Critique of the New Economic policies, Commonwealth publishers (1988)
- ❖ Solos, R: The labour market as an institution, Blackwell publisher (1990).
- ❖ Paola, T.S and A.N Sharma, Labour, employment and industrial relations in India (1993)
- ❖ Dart, G, Bargaining power wages and Employment: An Analysis of Agricultural labour market in India, Saga publication New Delhi(1996)
- ❖ Gupta, P.K, Labour Economics, New Delhi Vrinda publication (P)ltd
- ❖ Basu, kausik: Analytical Development Economics , Oxford university press, Delhi (1997)
- ❖ Agarwal, A.N. Indian Economy, Wiley Eastern Ltd .New Delhi 1999
- ❖ Sharma, A.k, labour Economics,ISBN:9788126128471,Anmol publication Pvt Ltd
- ❖ Jhabvala, R and R. k subrahmanya-The unorganized sector: work security and social protection, Sage publication New Delhi (2000)
- ❖ Dhingra, C. Indian Economy Resource Planning Development and problems. Sultan Chand publication New Delhi (2001)
- ❖ Agarwal, Ramgopal, Reforms labour Market and social security OUP New Delhi(2004)
- ❖ Kapila, Uma: Indian Economy since independence, Academic foundation New Delhi (2004)
- ❖ Sharma, A.N and A. Kundu, informal sector in India: Emerging perspective , institute for Human Development, New Delhi (2001)
- ❖ Paola, T.S and sharma, A.N ,Gender and Employment in India, Vikas publication House -New Delhi (1993)
- ❖ Sen, ratan Industrial relations in India, Macmillan India 2008)
- ❖ Mamoria, C.B & Mamoria, S, Dynamics of Industrial Relations, Himalaya publishing House Mumbai (2008)
- ❖ Government of India : Reports on The National Commission of Labour
- ❖ Government of India, Economic survey. Annual Ministry of Finance ,New Delhi
- ❖ Ruddar dutt & K.P. M. sundaram, Indian Economy. S. Chand & Co New Delhi 2006
- ❖ Sivarethina Mohan, R. Industrial Relations and Labour Welfare, PHI Learning. New Delhi(2010)
- ❖ Mishra, S.K and Puri, V.k, Indian Economy Himalayan pub. Housing (2016)

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MA Year 1, Sem I
Computer Application in Economics
(Theory) Elective Course

Programme/Class MA Economics	Year: First	Semester: I
Subject: Economics		
Course Code: ECO106T	Course Title: Computer Application in Economics	
<p>Course outcomes:</p> <ul style="list-style-type: none"> ● The students are equipped with the understanding of the computer fundamentals, application of the storage devices and the factors that affect the computer performance. ● The students learn and understand the various facets of modern information technology, AI, Internet and Email services and how to protect the data on the Internet. ● The students get a prior understanding of various Operating Systems and will be able to learn the basics of Microsoft Word, make PowerPoint presentations application of Microsoft Excel in preparing spreadsheet with entering and tabulating data for research work. ● The students become well versed with the Basic Functions of Excel in using Descriptive Statistics, Analyzing Data and Obtaining Results. ● To comprehend the various Software Operations and Orientation with different softwares used in statistics and undergo a comparative Study of all softwares. ● The students learn the basic ethical Issues in computing and Research- privacy, use of Intellectual Property rights; understand the use of digital technology in education and employment, governance and social development. 		
Credits:5		Elective Course
Max. Marks:25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 4-0-2		
Unit	Topics	No. of Lectures
I	Computer Fundamentals: Characteristics and components of computer (hardware and software both); Storage Devices; Other peripherals used with PC; Factors influencing PC Performance	12
II	Modern Information Technology: Basic ideas of LAN, MAN, WAN, PAN, CAN, WWW, Internet and Email services; Internet technologies; Data protection on Internet, Cyber Security	12

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III	Introduction to Operating System: Microsoft Word; creating, editing, formatting a document. PowerPoint presentation, Converting a word Document into various Formats	12
IV	Microsoft Excel; Preparing spreadsheet with entering and tabulating data in MS Excel; Basic Functions of Excel; Descriptive Statistics, Analysing Data and Obtaining Results, Regression statistics	12
V	Software Operations: Orientation with different softwares used in statistics like SPSS, Strata, R, Eviews, Mat lab etc. their characteristics, uses, advantages, weaknesses; Comparative Study of all software	12
VI	Ethical Issues in computing and Research- privacy, use of Intellectual Property rights, Artificial Intelligence, use of digital technology in education and employment, governance and social development.	15
<p>Suggested Readings:</p> <ul style="list-style-type: none"> ❖ Field, Andey. (2024). Discovering Statistics Using IBM SPSS. ❖ Dhanasekaran, k. Computer Applications in Economics, Vrinda Publications, New Delhi. ❖ Sinha, P. K. Computer Fundamentals, BPB Publications, New Delhi. ❖ Parameswaran, R. Computer Applications in Business, S. Chand & Company Ltd. New Delhi. ❖ Rajaraman, V. Fundamentals of Computers, Prentice Hall of India, New Delhi. ❖ Sanders, D.H. Computers Today, McGraw Hill. 		

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MA Year 1, Sem II
Research Methodology
Core Course

Programme/Class MA Economics	Year: 1	Semester: II
Subject: Economics		
Course Code: ECO201T	Course Title: Research Methodology	
Course Outcomes: <ul style="list-style-type: none"> ● The students should be familiar with basic concepts of research and research methodology. ● To acquaint students with the tools of research methodology. ● To enable the students to develop a questionnaire/interview schedule. ● To inculcate among students ability to comprehend the concept research question and hypothesis. ● To gain an appreciation for the value of economic reasoning and research, but to also recognize the limitations of its application. ● To apply economic theory to real world situations and to utilize economic theory to frame analysis of research questions. 		
Credits: 5	Core Course	
Max. Marks:25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Research - Concept, meaning, definition and objectives. Steps in Research Process. Types of Research. Characteristics & criteria of a good research. Introduction to Seminar, Conference, Workshop, Symposium, etc.	10
II	Research Problem: Concept and need, Identification of Research problem, defining and delimiting Research problem. Review of Literature: Meaning, objectives, sources and process of Review of Literature, Research Gap	10
III	Research Questions and Hypothesis: Variables and their linkages, characteristics of good Hypothesis. Research question and formulation of hypotheses - directional and non-directional hypotheses, Basis for hypothesis. Types of Errors.	10
IV	Research Design: Concepts, meaning, types, need and features. Sampling-Types of samples, Steps in Sampling process, Data types, Tools of Data Collection- Questionnaire & Interview Schedule, Observation, etc.	10

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V	Data Analysis: Processing & classification, tabulation and presentation of data, Software's of Data Analysis (MS Excel, SPSS, R-Studio, STATA, etc.), Hypothesis Testing using statistical tests like; t-test, Z-test, Correlation, Regression, ANOVA, Chi-square test, Time series analysis etc.	10
VI	Role of technology in research- Artificial Intelligence and automation, Ethics in Research, Plagiarism, Bibliography, various referencing styles in research.	10

Suggested Readings:

- ❖ Field, Andey. (2024). Discovering Statistics Using IBM SPSS.
- ❖ Dhanshekhran, Computer Applications in Economics.
- ❖ Ahuja, Ram (2003): Samajik Sarvekshan Avam Anusandhan. Rawat Publication. ISBN-10-817033750X and ISBN-13- 978-8170337508
- ❖ Ahuja, Ram (2001): Research Methods. Rawat Publication. ISBN-10-8170336538
- ❖ Chandra, Vinod S.S & S. Anand Hareendran (2018): Research Methodology. Pearson. ISBN:978-93-528-6351-8
- ❖ Creswell, John W (2012): Research Design: Qualitative, Quantitative and Mixed Methods Approaches. Sage. ISBN:978-321-0748-4(PB)
- ❖ Fadia, B.L (2018): Shodh Paddhati. Sahitya Bhawan Publications. ISBN-10 -9351733114
- ❖ Flick, Uwe (2012): An Introduction to Qualitative Research. Sage. ISBN:978-81-321-0568-8(PB)
- ❖ Greenlaw, S., Doing Economics: A Guide to Understanding and Carrying Out Economics Research, Houghton Mifflin.
- ❖ Koli. L.N (2014): Research Methodology (Hindi) Y K Publishers. ISBN-13-978-8185070919
- ❖ Kothari, C.R: Research Methodology (Methods and Techniques) (Hindi & English), New Age Publisher.
- ❖ Kumar, R. (2011). Research Methodology: a step-by-step guide for beginners (3rd edition). London, UK: TJ International Ltd, Padstow, Cornwall.
- ❖ Lewin, Cathy and Bridget Smekh (2011): Theory and Methods in Social Research. Sage. ISBN: 978-81-321-1000-2(PB)
- ❖ Salvade, Sidram (2012): Research Methodology (Hindi). Raj Publications. ISBN-10-8189471619 and ISBN-13- 978-8189471613
- ❖ Sharma, Virendra Prakash (2015): Research Methodology (Hindi). Panchsheel Prakashan.
- ❖ Singh, Y. K. (2006). Fundamental of Research Methodology and Statistics. New Delhi. New International (P) Limited, Publishers.

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MA Year 1, Sem II
Econometrics
Theory (Core Course)

Programme/Class MA Economics	Year: 1	Semester: II
Subject: Economics		
Course Code: ECO202T	Course Title: Econometrics	
Course Learning Outcomes:		
<ol style="list-style-type: none"> 1. The objective of this paper is to introduce basic econometric techniques that are widely used in empirical work in economics and other related disciplines. 2. It covers the problems faced in estimation and inference in the context of single and multiple equations regression model. 3. The focus is on conceptual understanding and ‘hands on’ applications using economic data drawn from real-world examples. 4. Estimate and interpret the parameters of multiple regression. 5. Work out solutions for violations of classical assumptions 		
Credits: 5	Core Course	
Max. Marks:25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Introduction, nature, scope and objectives of econometrics. Divisions of Econometrics. Basic concepts: population, sampling distribution, statistical inference and sampling distribution. Methodology of Econometrics.	10
II	Data Structure-Cross Sectional Data, Times Series Data, Pooled cross sections and Panel or Longitudinal Data. Causality and the notion of ceteris paribus.	10
III	Error Term. Estimation, Estimator, Properties of Estimator. Estimation-point and interval. Least Square Estimator, Coefficient of Determination. Stochastic and Non-stochastic relation. Linear regression with a single regressor. Linear and non-linear functions	15
IV	Basic functional forms of regression model. Classical Linear Regression Model- Ordinary Least Square Method (OLS) assumptions, estimation & properties. Relaxing Assumptions of Classical Model	15
V	The Assumption of Randomness, Zero Mean, Constant Variance and Normality of the Disturbance variable u .	15
VI	Multicollinearity, Heteroscedasticity and Autocorrelation	10

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Suggested Readings:

- ❖ Agarwal, D.R. (2009): Quantitative Methods, Vrinda Publications, Delhi.
- ❖ Agarwal, D.R. "Parambhik Ganitiya Arthshastra (Hindi)", Vrinda Publications, Delhi.
- ❖ Allen, R.G.D. (2008): Mathematical Analysis for Economics, AITBS.
- ❖ Casella, G. and R.L. Berger: Statistical Inference
- ❖ Elhance, D.N. (1996), Fundamental of Statistics, Kitab Mahal, Allahabad
- ❖ Elhance, D.L. (2010): Sankhiki Ke Siddhant (Hindi), Kitab Mahal
- ❖ Gerald Keller Statistics for management and economics 11th edition, Cengage publication, 2017
- ❖ Gupta, S.C. (1993), Fundamental Of Applied Statistics, Chand & Sons New Delhi
- ❖ Levin, Richard I. & Rubin, David S. (2005), Statistics for Management, Pearson Education, Singapore
- ❖ Mood. A.M., F.A. Graybill and D.C. Boes: Introduction to Theory of Statistics
- ❖ Sharma, B.S. (2006): Quantitative Methods, Anmol Publishers.
- ❖ Sharma, J.K. (2010): Quantitative Methods: Theory and Applications, Macmillan Publishers India LTD.
- ❖ Sharma, J.K. (2011): Business Statistics: Problems and Solutions, Pearson Education.
- ❖ Sharma, J.K. (2007): Business Mathematics, Ane Books Pvt. Ltd.
- ❖ Teresa Bradley, Essential Statistics for Economics, Business and Management, John Wiley Publisher, 2007
- ❖ Veerachamy, R.: Quantitative Methods for Economists. New Age International Publishers. Latest Edition
- ❖ Gujarati D. Basic Econometrics, Tata Mc Graw Hill, New Delhi
- ❖ Gujarati, D. N., "Econometrics by Example", Red Globe Press, 2nd Ed, 2014
- ❖ Johnston and Dinardo, Econometric Methods, McGraw Hill.
- ❖ Koutsoyiannis: Theory of Econometrics.
- ❖ Maddala, GS –Econometrics, McGraw Hill, N.Y.
- ❖ Marno Verbeek, 2017, "A Guide to Modern Econometrics", John Wiley & Sons, Ltd, 5th Edition
- ❖ Stock, James H., and Mark W. Watson (2007), Introduction to Econometrics, 2/E, Pearson
- ❖ Studenmund, A H: Using Econometrics, Pearson
- ❖ Wooldridg, Jeffrey M.: Introductory Econometrics: A Modern. Approach, Cengage Learning
- ❖ मदनानी, जी.एम. के. वकैलाशचन्द्रनायमा: अर्थमिति : अवधारणा एवं विधियों ! कल्याणी पब्लिशर्स !
श्रीवास्तव, बी.एल. व अनिल गुप्ता: गणितात्मक अर्थशास्त्र तथा अर्थमिति के मूल-तत्व ! प्रगति प्रकाशन, मेरठ

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Syllabus
MA Economics (One Year PG)

MA Year 1, Sem II
Economics of Agriculture
(Theory) Elective Course

Programme/Class MA Economics	Year: 1	Semester: II
Subject: Economics		
Course Code: ECO203T	Course Title: Economics of Agriculture	
Course Learning Outcomes:		
<ul style="list-style-type: none"> ➤ Provide orientation to the students regarding the concepts and measures of agricultural & rural development in economic development. ➤ Provide orientation on theories of economic growth and relevance of theories of agricultural and rural development of developing/labour surplus economies. ➤ Understand the agricultural policies and its effect on sustainable agricultural development. ➤ Understand the globalization and its impact on agricultural development. ➤ To develop the understanding of production process and the guiding economic principle for agricultural production; to apply the appropriate economic principle under different production scenario to optimize the production process. 		
Credits: 5	Elective Course	
Max. Marks:25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Concept of Agriculture and Rural Development. Indian Economic Thinkers on Agriculture-Kautilya, Dr. B R Ambedkar, M L Dantwala. Physiocrats approach.	5
II	Models of Agricultural Development: W. A. Lewis model, Fei& Ranis Model, Schultz Theory of Agricultural Development, Jorgenson's Dual Economy Model, JW Mellor's Approach, Y Hayamiand V W Ruttan's Model of Agricultural Development	15
III	Farm Size, Returns to Scale and Productivity. Cobweb Theorems. Farm Size and Productivity Debate; Theoretical And Empirical Findings. Agricultural Price Policy in India.	15
IV	Agricultural Marketing in India. Agricultural Markets & Marketing Efficiency- Regulated markets; Role of FPOs in agricultural marketing, Recent policies with respect to agricultural marketing. Issues and Challenges in the Marketing of Agricultural Products in India. Trends, Food Processing Industries in India.	15

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V	Current Issues in Indian Agriculture- Poverty & Food Security in India, Contemporary Relevance of Land Reforms & Green Revolution. Agro-Subsidies in India, Subsidy Vs Public Investment, Terms of Trade in Indian Agriculture. Institutional Credit for Agriculture in India. WTO & Indian Agriculture.	10
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Suggested Readings:

- ❖ Agarwal, M.K. and A.N Agarwal(2014): Indian Economy-Problems of Development and Planning. New Age Internation Privat Limited
- ❖ Amarjit, Singh, A. N .Sandhu & Jasbir Singh (2022): Fundamental of \agricultural Economics. Himalaya Publishing House Pvt. Ltd.
- ❖ Barkley, Andrew and Paul W. Barkley (2020): Principles of Agriculture Economics. Routledge.
- ❖ Dutt, Rudra & Sundaram: Indian Economy
- ❖ Gupta, Sachin (2020): Make in India or Trade in India.
- ❖ Joshi, Pramod & Ramesh Chand, et al.(2022): Indian Agriculture Towards 2030: Pathways for Enhancing Farmers' Income, Nutritional Security and Sustainable Food and Farm Systems (India Studies in Business and Economics). Springer Nature.
- ❖ Kapila, Uma (2022): Indian Economy-Performance and Policies. Academic Foundation.
- ❖ Mahajan, Madhur.M.(2020): Indian Economy. Pearson
- ❖ Puri , V.K & S K Mishra (2022) : India Economy. Himalaya Publishing House.
- ❖ Reddy, S.S (2019): Agricultural Economics. Oxford. ISBN-10-8120415965
- ❖ Roy, Tirthankar (2020): The Economic History of India, 1857-2010. OUP India. ISBN-10-**0190128291**, ISBN-13-**978-0190128296**
- ❖ Shah, C.H (2013): Fundamentals of Agricultural Economics with Perspectives from Indian Agriculture. Kalpaz Publication.
- ❖ Singh, C.B and R K Singh (2011): A Text Book of Agriculture Econmics. Laxmi Publications.
- ❖ Soni, R N (2015): Leading Issues in Agriculture Economics. Vishal Publishing Co.
- ❖ Srirangam, Sriram (2022): Indian Economy. Pearson.
- ❖ Verma, P K (2019): Fundamentals of Agricultural Economics. Jaya Publishing House.

Dr. Shakuntala Misra National Rehabilitation University, Lucknow, UP
Department of Economics
Syllabus
MA Economics (One Year PG)
MA Year 1, Sem II
The Evolution of Economic Thoughts
Theory (Elective Course)

Programme/Class MA Economics	Year: First	Semester: II
Subject: Economics		
Course Code: ECO204T	Course Title: The Evolution of Economic Thoughts	
Course Learning Objectives: <ul style="list-style-type: none"> ● The students would assimilate the knowledge of ancient economic thought, Greek economic thought as well as Western economic thought. ● The students learn and understand the economic thoughts of Classical School. ● The students learn and understand the various theories of Ricardo, Malthus, Mill, and Historical School. ● The students will comprehend German Romantics and Scientific Socialism, economic ideas of Karl Marx- the success and failure of Marxism. ● The students will learn the basic concepts of Subjectivism and Marginalism and the economic ideas of Austrian School, the precursor of Marginalism and the Marginalist Revolution. ● To understand the evolution of Neo-classical economics through Alfred Marshall, the evolution of Keynesian Economics and Post Keynesian Developments. ● To analyze the history and evolution of Indian Economic Thought, Economic Ideas of Mahatma Gandhi and other Indian economic thinkers, Early approaches to Planning and Economic dilemmas and the significance of externalities and environmental sustainability 		
Credits: 5	Elective Course	
Max. Marks:25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Introduction: Ancient Indian economic thought: Kautilya, Valluvar, Greek economic thought: Plato, Aristotle: concept of ideal state. The rise of Western Economic Thought: Mercantilism: Background factors, main characteristics, The analytical contributions of mercantilists to the economic theory, economic ideas of Locke, Hume, Cantillon, and Thomas Munh. Physiocracy- factors responsible for its rise, basic principles: Tableau Economique, Turgot, The idea of production, circulation of wealth, laissez faire	12

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II	Classical School: Introduction and summary of classic school; Adam Smith-naturalism and optimism, invisible hand, division of labour, market as resource allocator and as an institutional order, theory of value, international trade, economic liberalism, David Ricardo- Theory of distribution, ideas on economic development and International Trade; T. R. Malthus- The law of population, theory of Glut (over production due to under consumption); J. S. Mill-fundamental laws, individualistic and socialist reforms; stationary state as a moment for cultural fulfilment; J. B. Say- Say's Law; Historical School-Senior, List	15
III	German Romantics and Scientific Socialism- Sismondi, Karl Marx-Materialistic interpretation, dialectical materialism, value, labour theory of value, surplus value, profit, laws of capital accumulation, surplus-accumulation-profit conflict, fall of capitalism, formation of socialist and communist order; the success and failure of Marxism, contemporary relevance.	12
IV	Subjectivism and Marginalism: The precursor of Marginalism- Cournot, Thunen, Gossen,-Austrian School- subjective base of value, The Marginalist Revolution; introduction of marginal analysis, contribution of Menger, Jevons, Walrus, Wicksteed, Weiser and Bohm Bawark Neo-classical economics: Alfred Marshal: the Neo-Classicism, value, demand, supply, equilibrium; other concepts.	12
V	Indian Economic Thought: Naoroji, Ranade, R C Dutt, and M N Roy, Economic Ideas of Mahatma Gandhi-; B R Ambedkar, Ram Manohar Lohia, Pt. DeenDayalUpadhyay, Amartya Kumar Sen, RaghuramRajan, Krugman, Manmohan Singh. Early approaches to Planning (The National Planning Committee; Gadgil; JagdishBhagwati, J K Mehta- Wantlessness	12
VI	Economic dilemmas: The market and the larger society, inclusion and exclusion, equity and equality, basic needs vs. islands of prosperity, consumer-producer sovereignty, economic wastage, externalities, environmental sustainability.	12
<p>Suggested Readings:</p> <ul style="list-style-type: none"> ❖ Bhatia, H.L : History of Economic Thought ,Vikash Publishing House. ❖ Blackhouse, R (1985) : A History of Modern Economic Analysis, Basil Blackwell, Oxford. ❖ Ganguli, B.N(1977) : Indian Economic Thought : A 19th Century Perspective, Tata Mcgraw Hill. ❖ Hajela, T.N (2011) :AarthikVicharon Ka Itihas , Ane Books. ❖ Hajela, T.N (2011) : History Of Economic Thought , Ane Books. ❖ Hunt, E.K&Lautzenheiser, Mark (2011) : History of Economic Thought: A Critical Perspective , Phi Learning. ❖ Jhingan, M.L (2008): AarthikVicharon Ka Itihas ,Vrinda Publications, New Delhi. ❖ Kautilya (1992): The Arthashastra, Translated And Introduced By L.N.Rangarajan, Penguin Books. ❖ Loknathan,V (2009) : History of Economic Thought , S.Chand& Company. ❖ Roll, Eric : History of Economic Thought, Faber. ❖ Schumpeter, J.A(1954): Historyof Economic Analysis, Oxford University Press, New York. ❖ Sinha, V.C (2011) :AarthikVicharon Ka Itihas , Mayur Publishing ❖ Stanley, Charles.E: "A History of Economic Thought: From Aristole To Arrow", Blackwell Publishing 		

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Syllabus
MA Economics (One Year PG)
MA Year 1, Sem II
Social Sector Economics
Theory (Elective Course)

Programme/Class MA Economics	Year: 1	Semester: II
Subject: Economics		
Course Code: ECO205T	Course Title: Social Sector Economics	
<p>Course Learning Outcomes: Through this course students should be able to:</p> <ul style="list-style-type: none"> ● Acquire the knowledge about the role of government in an organized economy. ● Importance of common goods and provision of public utility. ● Get an insight of social sector development in terms of addressing imbalances of economy. ● Understand the Government interventions in relation to social sector development. ● Attain the knowledge of Social justice and empowerment. ● Get an Insight of activities and schemes for persons with disabilities 		
Credits: 5	Elective Course	
Max. Marks:25+75	Min. Passing Marks: 40	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Role of government in an organized society, common goods and provision of public utility, Satisfaction of Social and Merit want. Government measure to promote economic development: mobilization of economic surplus, provision of economic and social overheads.	12
II	Readdressing imbalances in the economy: social sector development. Growth with Social Justice-Concept and Issues. Size of GDP and Procurement of Social Justice, Ministry of Social Justice and Empowerment and its various social welfare activities, schemes for persons with disabilities.	12
III	Human Development and Human Development Index. Index Sustainable Development Goals -2030, Targets, End Poverty, Zero Hunger, Approach of NITI Ayog in relation to attaining Targets of SDG-2030 Goals. National Nutrition Mission.	12
IV	Health and Well-Being: Health Sector Economics, Schemes related to health and nutrition. Ayushman Bharat. Jan ArogyaYojna. Expenditure on Health sector in India Centre and State. India's Progress on achieving good health and well-being.	12

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V	Education Sector Economics: Expenditure on Education sector in India, Government initiative to improve the quality education and lifelong learning. Inclusive and Equitable quality education. India's Progress on Achieving Quality education.	12
<p>Suggested Readings:</p> <ul style="list-style-type: none"> ● Prabhu, K.Seeta(2001) : Economic Reforms and Social Sector Development, Sage Publications, New Delhi. ● Sen,Raj Kumar (2005) : Social Sector Development in India, Deep & Deep Publications, New Delhi ● Lal & Lal ,Shubham Publication, Prayagraj. ● Chaturvedi, Chinmayee (2012): Economic Reforms and Social Sector With Special Reference to Primary Education in Uttar Pradesh, Pragun Publications. ● Mathur, Vibha (2004): India- Economic Reforms and Social Sector, New Century Publications. ● Schultz,T.W (1971) : Investment In Human Capital, Free Press, New York. ● Klarman,H.E (1965) : The Economics Of Health, Columbia University Press, New York. ● Blaug,M (1972) : Introduction To Economics of Education, Penguin, London. ● Tilak, J.B.G (1994): Education for Development in Asia, Sage Publications, Delhi. ● .nipfp.org.in ● nhm.gov.in ● wcd.nic.in ● niti.gov.in ● india.gov.in 		

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MA Year 1, Sem II
Economy of Uttar Pradesh
Theory (Elective Course)

Programme/Class MA Economics	Year: First	Semester: II
Subject: Economics		
Course Code: ECO206T	Course Title: Economy of Uttar Pradesh	
Course Learning Outcomes:		
<ul style="list-style-type: none"> ● The objective of this course is to develop the knowledge and understanding of basic principles and practice of up Economy. ● The course also aims at equipping the student with the knowledge and understanding of the structure of up Economy. ● To familiarize students with the contemporary issues in up Economy. ● Get an Insight into recent trends in Uttar Pradesh. 		
Credits: 5		Elective Course
Max. Marks:25+75		Min. Passing Marks: 40
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-0-0		
Unit	Topics	No. of Lectures
I	Structure of Uttar Pradesh's Economy. Basic features of Economy in Uttar Pradesh, Economic and Non Economic indicators of Economic Development, Economic Growth in Uttar Pradesh – GSDP, GVA; Pattern and structure, Inter-state comparison of the Income & Growth.	12
II	Agriculture in Uttar Pradesh - Structure of Agriculture in up, Growth, Productivity, Green revolution progress, Performance and implementation, Agricultural Diversification, Agricultural Credit, Agricultural marketing and Land Reforms in Uttar Pradesh.	12
III	Industry, Pattern, Performance, Constraints and Challenges, Small Scale Industries-Role, Problem and future prospects, Agro based industries, Industrial policy in Uttar Pradesh, ODOP.	12
IV	Service Sector in UP-Nature, Growth, Problem and prospects. Policies. Current Economic Scenario in Uttar Pradesh. UP Economy@75. Investors Summit 2023.	12

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V	Social Sector In UP- Education, Health, Sanitation and Water Supply, Social Security Employment ,welfare schemes. Demographic Profile of UP-Sources of Demographic data, Census 2011, Growth and distribution of population in UP.	12
<p>Suggested Readings:</p> <ul style="list-style-type: none"> ❖ Kaur, Puneet: Location of Indian industries :An interstate Analysis.ISBN:9788184846973 ❖ Sunder,V: India:Study in growth , structure and Location. ❖ Economic surveys (various issues) Ministry of Finance, Government of India. ❖ Agarwal,Manoj Kumar, Agricultural industry in the Economy of Uttar Pradesh.ISBN-10-81721110685, Northern Book Centre(1996). ❖ Richardson ,Harvey: Elements of Regional Economics , penguin. ❖ Goyal, Alok Kumar, Agricultural performance in Uttar Pradesh.ISBN-10-3659622745,LAP Lambert Academic publishing (2014). ❖ Agarwal,M.k:Uttar Pradesh ki Arthvyavastha,New Royal Book Depot Lucknow. ❖ Copeelo,Roberta-Regional Economics ISBN-13-9781138855878 Routledge pub(2015). ❖ Kapila, Uma-Indian Economy Performance and policies, ISBN 13-9789332701670, Academic Foundation (2014-15). ❖ Candler, VM:Handbook of small scale industries,ISBN-978-93539-4063-8. ❖ Puri,VK & Mishra Indian Economy Indian Economy , Himalaya Publication ISBN-10-97893-53676266(2019). ❖ M Jajan ,M .Madhur,Indian Economy ISBN-978-93539-4063-8. ❖ Mishra ,ArvindNarayan,T,The Economy of Uttar Pradesh Reading Room (Publication (2018). ❖ Singania,IndianEconomy,ISBN:978939011301, McGraw Hill Education India (2020). 		
<p>Source for Update information:</p> <ul style="list-style-type: none"> ● niti.gov.in ● agriculture.gov.in ● mospi.nic.in ● startupindia.gov.in ● rbi.org.in ● nabard.orgfinmin.nic.in ● commerce.gov.in ● makeinindia.com ● Agarwal, M.K. (2022): Development Issues in Uttar Pradesh, Northern Book Centre, New Delhi ● Agarwal M.K. (2022): Modi Empowers Development, Sultan Chand and Sons, New Delhi 		