



**PROF. RAJENDRA SINGH (RAJJU BHAIYA)  
UNIVERSITY, PRAYAGRAJ  
(Formerly: Allahabad State University)**

**CBCS Syllabus of Master of Arts**

# **ECONOMICS**

*(Semester-wise Syllabus as per CBCS, 2024-25 Onward)*



**Department of Applied Economics,**

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## Programme Structure:

### **UG SEMESTER-VII/PG SEMESTER-I**

| Course Code |   | Course Name                       | Maximum Credits (20) |
|-------------|---|-----------------------------------|----------------------|
| A080701T    | Core  | Micro Economics I                 | 4Credits             |
| A080702T    | Core  | Macro-Economic Analysis           | 4 Credits            |
| A080703T    | Core  | Monetary Economics                | 4 Credits            |
| A080704T    | Core  | Research Methodology in Economics | 4 Credits            |
| A080705T    | Discipline Centric Elective<br>(Select any one) | Agricultural Economics            | 4 Credits            |
| A080706T    |   | Industrial Economics              |                      |

### **UG SEMESTER-VIII**

#### **(For Four Year Undergraduate Programme)**

| Course Code |                  | Course Name             | Maximum Credits (20) |
|-------------|------------------|-------------------------|----------------------|
| A080801T    | Core             | Micro Economics II      | 4 Credits            |
| A080802T    | Core             | International Economics | 4 Credits            |
| A080803P    | Research Project | Research Project        | 12 Credits           |

### **PG SEMESTER-II (For Two Year Post Graduate Programmed- Lateral Entry)**

| Course Code |   | Course Name                         | Maximum Credits(20) |
|-------------|---|-------------------------------------|---------------------|
| A080801T    | Core  | Micro Economics II                  | 4 Credits           |
| A080802T    | Core  | International Economics             | 4 Credits           |
| A080803T    | Discipline Centric Elective<br>(select any one) | Demography                          | 4 Credits           |
| A080804T    |   | Infrastructure Development of India |                     |
| A080805T    | Discipline Centric Elective<br>(select any one) | History of Economic Thought         | 4 Credits           |
| A080806T    |   | Rural Development                   |                     |
| A080807T    | Ability Enhancement Course<br>(select any one)  | Environmental Economics             | 4 Credits           |
| A080808T    |   | Mathematical Economics              |                     |

**PG SEMESTER-III/PG SEMESTER-I (One Year PG Programme-Lateral Entry)**

| Course Code |   | Course Name  | Maximum Credits(20) |
|-------------|---|--|---------------------|
| A080901T    | Core  | Statistical Methods  | 4 Credits           |
| A080902T    | Core  | Economics of Growth and Development                                | 4 Credits           |
| A080903T    | Discipline Centric Elective<br>(select any one) | India's Foreign Trade and International Institutions               | 4 Credits           |
| A080904T    |   | Economics of Human Resource Development                            |                     |
| A080905T    | Discipline Centric Elective<br>(select any one) | Public Economics   | 4 Credits           |
| A080906T    |   | Economic Development Of Uttar Pradesh                              |                     |
| A080907R    | Ability Enhancement Course<br>(select any one)  | Project Presentation, on Problems of Economic Development in India | 4 Credits           |
| A080908R    |   | Seminar Presentation on Macro Economic Problems in India           |                     |

**PG SEMESTER-IV/PG SEMESTER-II (One Year PG Programme)**

| Course Code |     | Course Name         | Maximum Credits (20) |
|-------------|-----|---------------------|----------------------|
| A0801001R   | MRP | MASTER DISSERTATION | 20 Credits           |

## **Programme Outcome: ECONOMICS**

**After competition of this programme students will be able to-**

**PO-1** Identify global economic institutions and their roles, such as the International Monetary Fund (IMF), World Bank, and World Trade Organization (WTO).

**PO-2** Understand and Apply the economic theories, principles, and models of real-world economic issues and problems, including supply and demand market structures, economic growth, and international trade.

**PO-3** Analyze economic development processes, including factors influencing economic growth, income distribution, poverty, inequality, and explore strategies for promoting inclusive and sustainable economic development.

**PO-4** Evaluate the economic impacts of various factors, such as technological advancements, demographic changes, environmental policies, global economic trends, and the policy implications of these impacts.

**PO-5** Assess the impact of regional policies on economic growth, investment, regional integration, and regional economic challenges, such as migration, urbanization, and environmental sustainability.

**PO-6** Construct the impact of the National economic policies on Gender-inclusive industrialization for growth and development, local policies on employment, markets, and regional disparities.

**PO-7** Revise the skills in economic forecasting and modeling, using tools such as econometric models, time series analysis, and scenario analysis to predict and assess future economic trends and outcomes.

**PO-8** Produce the proficiency in conducting economic analysis and research using appropriate quantitative and qualitative methods, including data collection, statistical analysis, econometric modeling, and interpreting economic data.

**PO-9** Develop effective communication skills to present economic analysis and research findings, both orally and in writing, using appropriate economic terminology and engaging with diverse audiences.

**PO-10** Explain economic research on local industries role of local government in economic planning and development including fiscal policy, monetary policy, and regulatory frameworks.

**PO-11** Demonstrate comprehensive knowledge, skills, and Employability in areas related to economics, applied economics and quantitative economics.

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|--|---------------------------------------|----------------------------|
| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: FIRST</b>                    | <b>Semester:<br/>FIRST</b> |
| <b>Core Course/ Paper</b>  |                                       |                            |
| <b>Course Code:<br/>A080701T</b>   | <b>Course Title: Micro Economic I</b> | <b>Credits: 4</b>          |
| <b>Course Outcome:</b> On completion of this course, students will be able to:   |                                       |                            |
| <b>CO-1)</b> Identify the optimizing behavior of a consumer in international and National market conditions.   |                                       |                            |
| <b>CO-2)</b> Select the optimizing behavior of a producer and theories of production related to skill development.   |                                       |                            |
| <b>CO-3)</b> Compare the theories of consumption, production, cost and market structures in empirical observations at International, National, Regional and Local level. |                                       |                            |
| <b>CO-4)</b> Explain various production functions and their applications which defines ethical & human values.   |                                       |                            |
| <b>CO-5)</b> Critique the difference between perfect competition and imperfect competition markets.  |                                       |                            |
| <b>CO-6)</b> Evaluate the Micro economic tools for sustainability & environment.   |                                       |                            |

| <b>UNIT</b> | <b>TOPICS</b>   |
|-------------|---|
| <b>I</b>    | <b>Consumer behaviour:</b> Utility Analysis, Indifference Curve Analysis, Applications and uses of Indifference Curve (subsidies, direct vs indirect tax Rationing and Food Security in India) Income Effect, Substitution Effect and Price Effect, Theory of revealed preference, Consumer Surplus (Evaluating gain from subsidy)  |
| <b>II</b>   | <b>Production function:</b> Law of variable proportion, Returns to scale, Cobb Douglas production function (Mathematical derivation), Skill of Optimum Factor Combination. Iso-quants- producer equilibrium. Production under Uncertainty;  |
| <b>III</b>  | <b>Theory of Cost and Revenue:</b> Concepts of Costs: Traditional Cost Theories: Short-run and Long-run Costs, Envelope curve; Modern theory of Costs: Short-run and Long-run, L-shaped scale curve. Cost Benefit analysis and Environment, Revenue and Determination of Revenue Curves.  |
| <b>IV</b>   | <b>Theory of pricing:</b> Perfect Competition: Short-run and Long-run Equilibrium; Supply curves of the Firm and Industry; Dynamic Changes and Industry Equilibrium. Monopoly: Short-run and Long-run Equilibrium; Price Discrimination in Regional Market. Monopolistic Competitive Market: Product differentiation and Demand curve; Industry and Group; Chamberlin's model: with entry and price competitions and equilibrium of firms; Concept of Excess capacity. Non- collusive Oligopoly: Cournot's model, Edgeworth's Model Bertrand's model, Chamberlin's model, Stackelberg's model and Kinked demand Model of oligopoly. |

## **References:**

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2. Mankiw, N. G., Kneebone, R. D., & McKenzie, K. J. (2023). *Principles of microeconomics*. Cengage Canada.
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27. Henderson, J. and Quandt, R.E. (1980). *Micro Economic Theory: A Mathematics Approach*, Tata McGraw Hill, New Delhi
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30. Stonier, A. W. (1964). *A textbook of economic theory*. John Willey & Sons Inc.

## **E-Journals / e-Links:**

- <https://www.aeaweb.org/journals/mic>

- <https://www.journals.uchicago.edu/journals/jpe/micro>
- <https://www.imf.org/en/Publications/fandd/issues/Series/Back-to-Basics/Micro-and-Macro>
- <https://www.springer.com/journal/712>
- [https://www.bu.edu/eci/files/2019/06/Microeconomics\\_and\\_the\\_Environment\\_Feb2019.pdf](https://www.bu.edu/eci/files/2019/06/Microeconomics_and_the_Environment_Feb2019.pdf)
- <https://onlinelibrary.wiley.com/journal/10991468>
- <https://en.wikipedia.org/wiki/Microeconomics>

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| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: FIRST</b>                               | <b>Semester:<br/>FIRST</b> |
| <b>Core Course/ Paper</b>  |  |                            |
| <b>Course Code:<br/>A080702T</b>   | <b>Course Title: Macro Economic<br/>Analysis</b> | <b>Credits: 4</b>          |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:  |  |                            |
| <b>CO-1)</b> Identify the basic concepts and various approaches at international and National theories of macroeconomics.  |  |                            |
| <b>CO-2)</b> Select the different concepts relating to national income including gross domestic product, gross national income, net national product, personal income and disposable income. |  |                            |
| <b>CO-3)</b> Explain the systematic facts and latest Skill development models for empirical analysis at regions.   |  |                            |
| <b>CO-4)</b> Analyze a logical and consistent framework for Employability by the main macroeconomic facts and events.  |  |                            |
| <b>CO-5)</b> Evaluate economic models and their validity, relevance of various economic Policies regarding Gender & human Values.  |  |                            |
| <b>CO-6)</b> Produce expertise to policy advocacy for sustainable economic development of India at micro and macro levels.   |  |                            |

| <b>UNIT</b> | <b>TOPICS</b>   |
|-------------|---|
| <b>I</b>    | <b>National Income and Accounting:</b> Circular flow of income in two. Three and four sector economy, Different forms of national income accounting, social accounting, Input output accounting, flow of funds. National Income and Economic Welfare.                     |
| <b>II</b>   | <b>Income and Employment Determination:</b> Classical theory of Employment. Keynesian Theory of Employment. Consumption function, Keynes psychological law of consumption, Relative Theory of Consumption. Life Cycle Theory of Consumption, Permanent Income Hypothesis. |
| <b>III</b>  | <b>Investment Function:</b> Investment Function: Marginal efficiency of investment, marginal efficiency of capital and investment short run and long run. Theory of Multiplier and Accelerator.   |
| <b>IV</b>   | <b>Theory of Inflation and Trade Cycles:</b> Classical, Keynesian and modern approaches to inflation, theory of inflation, Phillips curve, policies to control inflation. Theories of trade cycle: Schumpeter, Kaldor and Hicks, Control of Trade Cycles. IS-LM analysis. |

**References:**

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3. da Silva Souza, R., & de Mattos, L. B. (2023). Macroeconomic effects of oil price shocks on an emerging market economy. *Economic Change and Restructuring*, 56(2), 803-824.
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5. McCONNELL, C. *et al.* (2021). *Macroeconomics(SIE)*, 22e, Special Indian Edition, McGraw Hill.
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York

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30. Keynes, J.M.(1936). *The General Theory of Employment, Interest and Money*, Macmillan, London

**E-Journals / e-Links:**

- <https://www.aeaweb.org/journals/mac>
- <https://www.investopedia.com/insights/macroeconomic-analysis/>
- <https://www.jstor.org/stable/1912017>
- <https://www.oecd.org/economy/outlook/OECD-Economic-Outlook-June-2016-general-assessment-of-the-macroeconomic-situation.pdf>
- [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=294533](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=294533)
- <https://www.oxfordeconomics.com>

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| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: FIRST</b>                      | <b>Semester:<br/>FIRST</b> |
| <b>Core Course/ Paper</b>  |   |                            |
| <b>Course Code:<br/>A080703T</b>   | <b>Course Title: MONETARY ECONOMICS</b> | <b>Credits: 4</b>          |
| <b>Course Outcome:</b> On completion of this course, students will be able to:   |   |                            |
| <b>CO-1)</b> List the theories of money supply, demand for money, money multiplier money stocks in India.  |   |                            |
| <b>CO-2)</b> Prepare the knowledge and understanding of current macroeconomic monetary problems by applying theories to concrete case.                                 |   |                            |
| <b>CO-3)</b> Explain the process of credit creation of a commercial bank, balance sheet of a commercial bank, functions of commercial bank, functions of central bank. |   |                            |
| <b>CO-4)</b> Analyze job opportunities in money market, capital market and stock market at regional and local level.   |   |                            |
| <b>CO-5)</b> Assess the relation between income, rate of interest and their impacts on the demand and supply of money.   |   |                            |
| <b>CO-6)</b> Evaluate the functioning of a financial system, and Evaluate the effectiveness of monetary policy in a country.   |   |                            |

| <b>UNIT</b> | <b>TOPICS</b>   |
|-------------|---|
| <b>I</b>    | <b>Concept of Money:</b> Nature, Scope and Significance of Monetary Economics, Neutrality and Non- Neutrality of money, Legal tender money, Functions of Money, Value of Money and its approaches,  |
| <b>II</b>   | <b>Supply of Money:</b> Concepts of money supply, Different money stocks in India (Mo, M1, M3, M4), RBI Approach to money supply, High Powered Money and Money Multiplier.  |
| <b>III</b>  | <b>Demand for Money:</b> Classical and Keynesian Approach to Demand for money, Post- Keynesian Approach (Friedman, Baumol, Tobin), Keynesianism and Monetarism.   |
| <b>IV</b>   | <b>Monetary Policy:</b> Objectives, role and instruments- open market operations, changes in bank rate, changes in cash reserve ratio & selective credit controls, Monetary Policy and growth, banking, sector reforms in India, Functions of Central Bank. |

**References:**

1. Wray, L. R., Armstrong, P., Holland, S., Jackson-Prior, C., Plumridge, P., & Wilson, N. (Eds.). (2023). *Modern Monetary Theory: Key Insights, Leading Thinkers*. Edward Elgar Publishing.
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Pvt. Ltd.

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### **E-Journals / e-Links:**

- <https://www.inderscience.com/jhome.php?jcode=ijmef>
- [https://en.wikipedia.org/wiki/Journal\\_of\\_Monetary\\_Economics](https://en.wikipedia.org/wiki/Journal_of_Monetary_Economics)
- <https://www.scimagojr.com/journalsearch.php?q=21100200807&tip=sid>
- <https://jme.mbri.ac.ir/>
- <https://ideas.repec.org/s/eee/moneco.html>

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| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: FIRST</b>   | <b>Semester:<br/>FIRST</b> |
| <b>Core Course/ Paper</b>  |  |                            |
| <b>Course Code:<br/>A080704T</b>   | <b>Course Title: Research Methodology In<br/>Economics</b> | <b>Credits: 4</b>          |
| <b>Course Outcome:</b> On completion of this course, students will be able to:   |  |                            |
| <b>CO-1)</b> Develop and understanding about the various kinds of research, objectives of doing research, research processes, research designs and sampling. |  |                            |
| <b>CO-2)</b> Search for and prepare a literature and research questions.   |  |                            |
| <b>CO-3)</b> Understand the ethical dimensions of conducting research.   |  |                            |
| <b>CO-4)</b> Choose appropriate methods for the research objectives and data collection.   |  |                            |
| <b>CO-5)</b> Apply knowledge to formulate and choose appropriate research hypothesis.  |  |                            |
| <b>CO-6)</b> Develop skills to organize and analyses data and writing research reports.  |  |                            |

| <b>UNIT</b> | <b>TOPICS</b>  |
|-------------|--|
| <b>I</b>    | <b>Introduction:</b> Nature, scope and purpose of social research; Types of research: Quantitative and Qualitative research; Steps of research proposal; Review of literature: Sources and importance; Research problem: Identification and formulation of research problem, Conceptualization and operationalization of research problem, Sources of research problem, Criteria of a good research problem; Research objectives; Research design: Definition, concepts, and types- Exploratory, descriptive and diagnostic; Experimental and analytical research designs. |
| <b>II</b>   | <b>Data Collection and Processing Types of data:</b> Time series, Cross sectional, Panel and cohort; Methods of collection of primary data: Direct personal investigation, Indirect oral investigation, Information received through local agents and correspondents, Mailed questionnaire, Schedule, Observation and focus group discussion; Differences between questionnaire and schedule; Drafting and design of questionnaire; Secondary data: Sources, Limitations of secondary data, Precautions in the use of secondary data.                                      |
| <b>III</b>  | <b>Population and sample:</b> Sampling techniques: Probability and non-probability sampling techniques; Hypothesis: Meaning, types and formulation of hypothesis; Types of errors in testing of hypothesis, Level of significance.   |
| <b>IV</b>   | <b>Report Writing:</b> Writing of A Research Report and Research Ethics, Editing, Coding, Classification and tabulation of data; Research report: Meaning and significance; Layout of a research report: Preliminary part, Main part and complementary part; Principles of writing the research report: Organization and style; Citation and referencing: Footnotes and end notes; APA style of referencing; Format of appendices and bibliography; Ethical issues relating to research: Falsification, Fabrication and plagiarism.  |

## **References:**

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- 20) Preston D: Research Methodology and Quantitative Techniques, Kaufman Press, USA, 2022.

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- <https://www.researchgate.net>
- <https://libguides.usc.edu>
- <https://us.sagepub.com>
- <https://ebooks.inflibnet.ac.in>
- <https://www.phdguidance.org>
- <https://www.igi-global.com>
- <https://www.resources.nu.edu>

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|---|--|----------------------------|
| <b>Programme:<br/>ECONOMICS</b>   | <b>Year: FIRST</b>                         | <b>Semester:<br/>FIRST</b> |
| <b>Discipline Centric Elective</b>  |  |                            |
| <b>Course Code:<br/>A080705T</b>  | <b>Course Title: AGRICULTURE ECONOMICS</b> | <b>Credits: 4</b>          |
| <b>Course outcome</b> - On completion of this course, students will be able to:   |  |                            |
| <b>CO-1)</b> Identify the role of agriculture in the economic structure of the country and the world.   |  |                            |
| <b>CO-2)</b> Prepare the knowledge and analytical skills in addressing the Employability issues of systems of farming, agricultural production and marketing.                     |  |                            |
| <b>CO-3)</b> Explain the concept of NABARD, Rural Credit System, land reform policies and Local problems in Agriculture sector for healthy Environment in India.                  |  |                            |
| <b>CO-4)</b> Utilize and discuss about the basic concepts, components and processes of agriculture development in India as well as in Regions.                                    |  |                            |
| <b>CO-5)</b> Evaluate the efficiency of public distribution system in India, and Guide farmers in linking them with new market situations regarding Entrepreneurship development. |  |                            |
| <b>CO-6)</b> Produce the facilities to gain Sustainable Development Goals in Agriculture Economy at National As well as Regional Level.   |  |                            |

| <b>UNIT</b> | <b>TOPICS</b>   |
|-------------|---|
| <b>I</b>    | <b>Introduction:</b> Nature and Scope of Agriculture economics, Role of Agriculture in Economic Development, Interdependence between agriculture and industry. New Agricultural Strategy and Green Revolution.              |
| <b>II</b>   | <b>Theories of Agriculture Development:</b> Lewis, Fei-Ranis and Mellor's Theory, agriculture and India's Foreign Trade, WTO and Indian Agriculture.  |
| <b>III</b>  | <b>Land Reforms:</b> Concepts, Progress, Sources of Rural Credit, Role of NABARD, Technical Change in Agriculture, Agriculture Marketing, Agriculture Price Policy, Public Distribution System.                             |
| <b>IV</b>   | Economics of Farm Size, Capital Formation in Agriculture, Production Function in Agriculture, Production Decision, factor- Product Relationship, factor- factor Relationship, Product- Product Relationship, Food Security. |

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- <https://agrifoodecon.springeropen.com/>
- <https://agricecon.agriculturejournals.cz/>
- <https://academic.oup.com/erae>
- <https://www.sciencedirect.com/journal/agriculture-ecosystems-and-environment>
- [https://peerreviewcentral.com/ads/agricultural.html?gclid=EA1aIQobChMIjenZ9PWZ\\_wI](https://peerreviewcentral.com/ads/agricultural.html?gclid=EA1aIQobChMIjenZ9PWZ_wI)
- <https://www.citefactor.org/journal/index/14518/agricultural-and-resource-economics-international-scientific-e-journal>
- <https://agroeconomistjournal.com>

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| <b>Programme:<br/>ECONOMICS</b>   | <b>Year: FIRST</b>                        | <b>Semester:<br/>FIRST</b> |
| <b>Discipline Centric Elective</b>  |   |                            |
| <b>Course Code:<br/>A080706T</b>  | <b>Course Title: INDUSTRIAL ECONOMICS</b> | <b>Credits: 4</b>          |
| <b>Course outcome</b> - On completion of this course, students will be able to:           |   |                            |
| <b>CO-1)</b> Set the goals for business organizations.                                    |   |                            |
| <b>CO-2)</b> Choose appropriate locations of industries.                                  |   |                            |
| <b>CO-3)</b> Assess the profitability of business organizations.                          |   |                            |
| <b>CO-4)</b> Measure the productive capacity of industries.                               |   |                            |
| <b>CO-5)</b> Explain the concept of Industrial structure and economic development.        |   |                            |
| <b>CO-6)</b> Evaluate the product pricing and market structure of small scale industries. |   |                            |

| <b>UNIT</b> | <b>TOPICS</b>  |
|-------------|--|
| <b>I</b>    | <b>Industrial Economics:</b> Meaning, Nature and Scope, Concept and organization of the firm, ownership, control and objectives of the firm, passive and active behavior of the firm.  |
| <b>II</b>   | <b>Market Structure:</b> Seller's concentration, product differentiation, entry conditions, economies of scale, market structure and profitability, and market structure and innovation; Theories of industrial location: Weber and Sargent Florence, factors affecting location; Industrial Finance in India.   |
| <b>III</b>  | <b>Market Conduct:</b> Product pricing – theories and evidence; Investment expenditure- Theories and empirical evidence; and Merger and diversification. Market Performance: Growth, size, and profitability of the firm; and Constraints on firm's growth.  |
| <b>IV</b>   | <b>Industrial Productivity:</b> Concept and measurement, Capacity utilization – concept and measurement; Changes in Industrial structure and economic development; MNC's and transfer of technology; Small Scale Industries; Public policy and industrialization; Privatization – concept, scope and relevance; Trade Union, Social Security and Reforms in India. |

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6. Desai, S.S.M. and N. Bhalerao (2010), *Industrial Economy of India*, Himalaya Publishing House.
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### **E-Journals / e-Links:**

- [Industrial Economics: Issues and Perspectives | SpringerLink](#)
- [Industrial Economics: An Introductory Text Book - R R Barthwal - Google Books](#)
- [An Introduction to Industrial Economics | P.J. Devine, N. Lee, R.M. Jo \(taylorfrancis.com\)](#)
- [Text and Notes in Industrial Economics \(economicsnetwork.ac.uk\)](#)
- [EC3099-Industrial-economics.pdf \(lse.ac.uk\)](#)
- [\[PDF\] Industrial Economics: An Overview | Semantic Scholar](#)
- [Industrial Economics - Studying Economics](#)
- [DSpace at Saintgits: Industrial Economics and Foreign Trade B.Tech Common S5 Feb.2023\(S\)](#)
- [Industrial Economics BSc | University of Nottingham](#)
- [Industrial Economics Definition & Examples - Quickonomics](#)
- [Home | Journal of Industrial and Business Economics \(springer.com\)](#)
- [Industrial Economics \(tu.berlin\)](#)
- [INDUSTRIAL ECONOMICS \(IN HINDI\) - DR. GUPT - Google Books](#)
- [On the Core Concepts of Industrial Economics | SpringerLink](#)
- [economics of industry 2.pdf \(icseonline.org\)](#)

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| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: FIRST</b>                      | <b>Semester:<br/>SECOND</b> |
| <b>Core Course/ Paper</b>  |   |                             |
| <b>Course Code:<br/>A080801T</b>   | <b>Course Title: MICRO ECONOMICS II</b> | <b>Credits: 4</b>           |
| <b>Course Outcome:</b> On completion of this course, students will be able to:   |   |                             |
| <b>CO-1)</b> Identify the optimizing behavior of a consumer in international and National market conditions.   |   |                             |
| <b>CO-2)</b> Select the optimizing behavior of a producer and theories of production related to skill development.   |   |                             |
| <b>CO-3)</b> Compare the theories of consumption, production, cost and market structures in empirical observations at International, National, Regional and Local level. |   |                             |
| <b>CO-4)</b> Explain various production functions and their applications which defines ethical & human values.   |   |                             |
| <b>CO-5)</b> Critique the difference between perfect competition and imperfect competition markets.  |   |                             |
| <b>CO-6)</b> Evaluate the Micro economic tools for sustainability & environment  |   |                             |

| <b>UNIT</b> | <b>TOPICS</b>   |
|-------------|---|
| <b>I</b>    | <b>Collusive Oligopoly:</b> Cartels; Joint Profit Maximization & Market sharing Cartels; Price Leadership; Low Cost price leader, dominant firm price leader, Barometric price leadership. Criticism of Neo- Classical Theory of Firm, Modern Theories of firm- Baumol, Williamson, Marris Models, Bain's Limit Price Theory. |
| <b>II</b>   | <b>Factor Market:</b> Factor pricing under different market condition. Marginal Productivity theory and its limitations. Elasticity of factor substitutions. Technical progress and income distribution, contributions of Kalecki and Kaldor. The 'Adding up' problem. Euler's product exhaustion theorem.                    |
| <b>III</b>  | <b>Theory of distribution:</b> Theory of factor pricing, classical and Modern Theories of Interest. Theories of Rent, Wage and Profit.  |
| <b>IV</b>   | <b>Theory of Welfare Economics:</b> General Equilibrium and Welfare Economics Pigou, Pareto optimality, Kaldor- Hicks Compensation Criteria, Bergson's, Social Welfare Function, Arrow's Impossibility theorem and Theory of second Best.   |

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- <https://www.aeaweb.org/journals/mic>
- <https://www.journals.uchicago.edu/journals/jpe/micro>
- <https://www.imf.org/en/Publications/fandd/issues/Series/Back-to-Basics/Micro-and-Macro>
- <https://www.springer.com/journal/712>
- [https://www.bu.edu/eci/files/2019/06/Microeconomics\\_and\\_the\\_Environment\\_Feb2019.pdf](https://www.bu.edu/eci/files/2019/06/Microeconomics_and_the_Environment_Feb2019.pdf)
- <https://onlinelibrary.wiley.com/journal/10991468>
- <https://en.wikipedia.org/wiki/Microeconomics>

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|---|--|-----------------------------------|
| <b>Programme:</b><br><b>ECONOMICS</b>   | <b>Year: FIRST</b>                               | <b>Semester:</b><br><b>SECOND</b> |
| <b>Core Course/ Paper</b>   |  |                                   |
| <b>Course Code:</b><br><b>A080802T</b>  | <b>Course Title: INTERNATIONAL<br/>ECONOMICS</b> | <b>Credits: 4</b>                 |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:   |  |                                   |
| <b>CO-1)</b> Identify the various theories of Employability (Adam Smith, Ricardo, J.S. Mill) emerged in international trade.  |  |                                   |
| <b>CO-2)</b> Prepare the previous and existing pattern of Globalization.  |  |                                   |
| <b>CO-3)</b> Explain the various concepts and approaches used in international Economics.   |  |                                   |
| <b>CO-4)</b> Understand and Analyze the various approaches in Balance of payments of India.   |  |                                   |
| <b>CO-5)</b> Assess the welfare effects of human Values in trade policy.  |  |                                   |
| <b>CO-6)</b> Construct the role of world trading system, issues related to WTO negotiations (Amber Box, Green Box, Blue Box) and the regional trading arrangements. |  |                                   |

| <b>UNIT</b> | <b>TOPICS</b>  |
|-------------|--|
| <b>I</b>    | Theories of International Trade - An overview of classical and neo-classical theories of trade. Theory of Absolute Advantage (Adam Smith), Theory of Comparative Cost (Ricardo), Haberler Opportunity Costs Theory, Heckscher-Ohlin theory, Leontiff paradox. Stolper-Samuelson. |
| <b>II</b>   | Gains from Trade, Terms of Trade - Concept, Types, Factor Affecting Terms of Trade, Unfavourable Terms of Trade; Trade as engine of growth. Tariffs, Quota, Non-Tariff barriers, Effect of Tariffs under partial and general equilibrium, Free Trade and Protection.             |
| <b>III</b>  | Balance of Payments: Meaning Structure, Equilibrium and disequilibrium, Adjustment Mechanism of Balance of Payments- the Absorption Approach, Causes and Measures to correct Adverse Balance of payments.  |
| <b>IV</b>   | Foreign Exchange rate: Fixed and Flexible Exchange Rate, Exchange Rate Determination, Monetary Approach and Asset Approach to Balance of Payments, Exchange control and Exchange Management.   |

**References:**

1. Salvatore, D. (2023). International Economics, Prentice hall, Upper Saddle River, N.J.; New York.
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**E-Journals / e-Links:**

- <https://www.tandfonline.com/toc/riej20/current>
- <https://www.springer.com/journal/11294>
- <https://www.elsevier.com/journals/international-economics/2110-7017/guide-for-authors>
- <https://www.journalijar.com/>
- <https://ijesc.org/?gclid=EAIaIQobChMI>
- <https://www.ijhssm.org/>

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| <b>Programme:</b><br><b>ECONOMICS</b>   | <b>Year: FIRST</b>              | <b>Semester:</b><br><b>SECOND</b> |
| <b>Discipline Centric Elective</b>  |                                 |                                   |
| <b>Course Code:</b><br><b>A080803T</b>  | <b>Course Title: DEMOGRAPHY</b> | <b>Credits: 4</b>                 |
| <b>Course Outcome:</b> On completion of this course, students will be able to:  |                                 |                                   |
| <b>CO-1)</b> Identify the relation between population growth and Sustainable development which affects the social, economic, cultural and political life of the people India and World. |                                 |                                   |
| <b>CO-2)</b> Present the inter-relationship between theories of Employability and the economic development.   |                                 |                                   |
| <b>CO-3)</b> Analyze the theoretical understanding regarding various demographic changes of population in India and the world.  |                                 |                                   |
| <b>CO-4)</b> Compare the current status and trends in population size, composition and distribution in India.   |                                 |                                   |
| <b>CO-5)</b> Design the appropriate techniques for environmental development of a country to Policy maker.  |                                 |                                   |
| <b>CO-6)</b> Predict the population dynamics and the changes in mortality, fertility and migration in India.  |                                 |                                   |

| <b>UNIT</b> | <b>TOPICS</b>  |
|-------------|--|
| <b>I</b>    | <b>Demography:</b> Meaning Scope and Subject Matter, Demographic data- Methods of data collection, Census, Measurement of Population growth, Structure of population, Population Projection.   |
| <b>II</b>   | <b>Theories of Population:</b> The Malthusian Theory of Population, optimum Theory, Logistic curve Theory, Theory of NET Reproduction, Theory of demographic transition, Migration: Causes, factors, effects and types of Migration, Todaro model of rural urban migration.  |
| <b>III</b>  | <b>Fertility:</b> Total Fertility Rate, Gross Reproduction Rate (GRR), Net Reproduction Rate (NRR), General Fertility Rate (GFR), Child Women Ration (CWR) Role of Women, Factors Affecting Fertility- Socio-economic factors, economic status, health, education, nutrition, Fertility Measurement, Status of Women in Society, Fertility trends in India.  |
| <b>IV</b>   | <b>Mortality and Morbidity:</b> Concepts and Measurement, Life Table- Meaning, types and uses. Demographic trends in developed and developing countries, Population Policy of India, Female Literacy Rates. Problem of Gender Inequality and Women Empowerment: Meaning, approaches, concept and objectives, Problem and causes of Gender Inequality in India, Govt. Efforts to eradicate Gender Inequality. |

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### **E-Journals / e-Links:**

- <https://iopscience.iop.org/article/10.1088/1742-6596/892/1/012013>
- [https://www.demogr.mpg.de/en/publications\\_databases\\_6118/demographic\\_research\\_online\\_journal\\_6675/](https://www.demogr.mpg.de/en/publications_databases_6118/demographic_research_online_journal_6675/)
- <https://ideas.repec.org/p/bis/biswps/722.html>
- <https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2745.12547>
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2568734/>
- [https://www.thelancet.com/article/S0140-6736\(20\)30677-2/fulltext](https://www.thelancet.com/article/S0140-6736(20)30677-2/fulltext)

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| <b>Programme:</b> | <b>Year: SECOND</b> | <b>Semester:</b> |
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| <b>ECONOMICS</b>  |  | <b>FOURTH</b>     |
| <b>Discipline Centric Elective</b>  |  |                   |
| <b>Course Code:<br/>A080804T</b>  | <b>Course Title: INFRASTRUCTURE<br/>DEVELOPMENT OF INDIA</b> | <b>Credits: 4</b> |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:   |  |                   |
| <b>CO-1)</b> Understand the meaning, concepts, types of infrastructure in growth and development of the Nation.   |  |                   |
| <b>CO-2)</b> Identify the structure of demand and supply of transport, structure of transport cost, Rationale of Government Intervention in Management of Transport etc. in Indian Economy. |  |                   |
| <b>CO-3)</b> Explain the Skilling, Employability and Entrepreneurship overview and policy interventions in PPP Model.   |  |                   |
| <b>CO-4)</b> Analyze the ability to integrate technical, economic, social and regulatory frameworks for Infrastructure sector planning and resource management.                             |  |                   |
| <b>CO-4)</b> Asses the primacy of energy, shortage of energy, importance of Energy sources for environment and suggest the appropriate policy to overcome the crisis of energy in India.    |  |                   |
| <b>CO-6)</b> Evaluate the role of public health care and policy in Covid-19 pandemic management.  |  |                   |

| <b>UNIT</b> | <b>TOPICS</b>  |
|-------------|--|
| <b>I</b>    | <b>Infrastructure:</b> Meaning and Types, Infrastructure and Economic Development, Challenges of Infrastructure Development, Infrastructure As a Public Good, Peak Load and Offload Problem, Marginal Cost Pricing and Other Pricing Methods of Public Utilities.  |
| <b>II</b>   | <b>Social Infrastructure:</b> Significance of Education to Economic Development, Expenditure on Education, Private Investment in Education, Health and Economic Development: Linkages and Impact, Education, Health and Human Resource Development, Role of Government and Private Sector in Health care in India, Public Private Partnership in Health Sector: Current Scenario and Problems. |
| <b>III</b>  | <b>Transportation:</b> Role of Transport in Economic Development, Growth of Road Network in India, Transport Policy of India, Rationale of Government Intervention in Management of Transport, Need for Privatization in Transport Infrastructure, Public Private Participation, Limitations of Privatization Policy   |
| <b>IV</b>   | <b>Energy:</b> A brief introduction and Development of Energy Sector and Telecommunication Sector, Importance of non Conventional Energy Sources, Energy crisis in India, Rural Infrastructure Development, Problems of Infrastructure Development in India.   |

**References:**

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29. Five Year Plans India Infrastructure Report, Annual Issues, Govt. of India
30. Government of India, Economic Survey (For Different Years)

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- <https://journals.sagepub.com/home/joi>
- <https://ideas.repec.org/s/sae/jouinf.html>
- <https://journals.scholarsportal.info/browse/09749306/v10i1-2>
- <https://www.ibef.org/industry/infrastructure-sector-india>
- <https://www.niti.gov.in/verticals/infrastructure>

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| <b>Programme:</b> | <b>Year: FIRST</b> | <b>Semester:</b> |
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| <b>ECONOMICS</b>   |  | <b>FIRST</b>      |
| <b>Discipline Centric Elective</b>   |  |                   |
| <b>Course Code:</b><br><b>A080805T</b>   | <b>Course Title: HISTORY OF ECONOMIC<br/>THOUGHT</b> | <b>Credits: 4</b> |
| <b>Course outcome</b> - On completion of this course, students will be able to:  |  |                   |
| <b>CO-1)</b> Identify the contributions of main school of economics, classical economic thought (Adam Smith, David Ricardo, J.B. Say etc).                           |  |                   |
| <b>CO-2)</b> Outline the need to study the theories related to Human Values & Gender Sensitization in history of economic thought.                                   |  |                   |
| <b>CO-3)</b> Analyze the importance of National Security thoughts for economic development in India.   |  |                   |
| <b>CO-4)</b> Compare the historical school of thought with Neo Classical School of economic thought regarding Sustainable development and Environment.               |  |                   |
| <b>CO-5)</b> Evaluate economics of welfare approach by Indian economist –B.R. Ambedkar, Jagdish Bhagwati, Dada Bhai Narauji, Gandhi, Ram Manohar Lohia, A.K.Sen etc. |  |                   |
| <b>CO-6)</b> Asses the theory of Employability by Keynesian and Post Keynesian development Approach.   |  |                   |

| <b>UNIT</b> | <b>TOPICS</b>  |
|-------------|--|
| <b>I</b>    | <b>Pre Classical Thoughts:</b> Mercantilism, Physiocrats, Classical Thoughts, Adam Smith, David Ricardo, T.R. Malthus, J.B. Say- The Law of Market Economic Ideas of J .S. Mill, N.W.Senior.   |
| <b>II</b>   | <b>The Socialistic Tradition:</b> Sismondi, St. Simon, Karl Marx, the Historical School, American School of Thought, Institutionalism.   |
| <b>III</b>  | <b>Marginalism:</b> Marshall, Leon Walras, W. S. Jevons, Carl Menger, Wiser, J. M. Keynes and his theories, Post Keynesian and Neo Keynesian Approaches.   |
| <b>IV</b>   | <b>Modern Thought:</b> Friedman, Tobin, Schultz. Solow, V. Pareto. Indian Economic Thought: Dada Bhai Naoroji, Gandhi - Swadeshi and Khadi, Self-sufficient Village System , B.R. Ambedkar Labour Reform, Federal Finance, Value of Money, Rammanohar Lohia - Gender Difference, Decentralization of Economic and Political Powers , J.K. Mehta- Theory of Want- lessens , A. K. Sen. Theory of welfare Economics and ethics, Jagdish N.Bhagwati- trade and development, Regional trade. |

**References:**

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- 29.Ricardo, D. (1817& 3 rd edition 1821), Principles of the Political Economy and Taxation, Everymans Library, London
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- <https://www.tandfonline.com/journals/rejh20>
- <https://books.emeraldinsight.com/page/series-detail/research-in-the-history-of->

[economic-thought-and-methodology/](#)

- <https://ideas.repec.org/s/cup/jhisec.html>
- <https://www.jstor.org/stable/3486010>
- <https://www.scimagojr.com/journalsearch.php?q=21100840135&tip=sid&clean=0>
- <https://www.ineteconomics.org/education/materials/history-of-economic-thought-website>

**Programme:**

**Year: FIRST**

**Semester:**

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| <b>ECONOMICS</b>  |   | <b>SECOND</b>     |
| <b>Discipline Centric Elective</b>  |   |                   |
| <b>Course Code:<br/>A080806T</b>  | <b>Course Title: RURAL DEVELOPMENT</b>  | <b>Credits: 4</b> |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:   |   |                   |
| <b>CO-1)</b> Select the basic concept, scope, objectives, regional approach of rural economics in India.  |   |                   |
| <b>CO-2)</b> Identify the importance of principles and laws of economics in understanding the problems related with unemployment, poverty, inequality, employability and gender discrimination in rural areas.  |   |                   |
| <b>CO-3)</b> Analyze the importance of agriculture, industry and service sectors in rural areas of India.   |   |                   |
| <b>CO-4)</b> Explain the Women Entrepreneurship and consisting of leadership qualities of a successful Entrepreneur of rural economy that can be helpful Sustainable development.   |   |                   |
| <b>CO-5)</b> Design the expertise in planning and management of rural development programmes with focus on participatory development in Environment.  |   |                   |
| <b>CO-6)</b> Evaluate the Land Policy, Technology Policy, Agricultural Policy, Employment Policy, Education and Extension Policy, Rural Institutions Policy, Price Policy, Women Education policy, Rural Educational programmes.  |   |                   |
| <b>UNIT</b>   | <b>TOPICS</b>   |                   |
| <b>I</b>  | Rural Economics; Concept, Scope Objectives and Importance of Rural Economics. Characteristics of Rural Economy; Rural-Urban Linkages. Rural Economy of India; Size and Structure of Rural Economy. Approaches to Rural Development; Regional approach, PURA and PRIs.             |                   |
| <b>II</b>   | Natural Resources and their importance in Rural Development. Diversification of Rural Economy; Rural Industrialization. Problems of Rural Economy; Poverty, Unemployment, Inequality, Rural Indebtedness and Farmers Suicide, Infrastructure and Rural Development.               |                   |
| <b>III</b>  | Strategies of Rural Development; Growth oriented strategy, Welfare strategy, Responsive strategy, Holistic strategy, Right-based strategy. Rural Development Programmes; Objectives and Appraisal (SJGSY and MGNREGS). Rural Economy; Diversification as strategy of Development. |                   |
| <b><u>References:</u></b>   |   |                   |
| <ol style="list-style-type: none"> <li>1. Marsden, T., Lowe, P., &amp; Whatmore, S. (Eds.). (2023). <i>Rural restructuring: global processes and their responses</i> (Vol. 1). Taylor &amp; Francis.</li> <li>2. Vercher, N. (2022). The role of actors in social innovation in rural areas. <i>Land</i>, 11(5), 710.</li> <li>3. Rietmann, C. (2022). Corporate responsibility and place leadership in rural digitalization: the case of Hidden Champions. <i>European Planning Studies</i>, 1-21.</li> <li>4. Adams, D. W. (2021). <i>Undermining rural development with cheap credit</i>.</li> </ol> |   |                   |

Routledge.

5. DeKeseredy, W. S. (2020). *Woman abuse in rural places*. Routledge.
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**E-Journals / e-Links:**

- <https://nirdprojms.in/index.php/jrd>
- <https://www.rural21.com/english/>
- <https://rural.nic.in/en>
- [https://www.researchgate.net/publication/228295663\\_Innovative\\_E-Learning\\_in\\_Rural\\_Areas\\_A\\_Review](https://www.researchgate.net/publication/228295663_Innovative_E-Learning_in_Rural_Areas_A_Review)
- <https://journals.openedition.org/netcom/144>
- <https://rural.gov.in/>
- <https://www.niti.gov.in/verticals/rural-development>
- <https://www.india.gov.in/topics/rural>
- <http://nirdpr.org.in/>
- <https://www.worldbank.org/en/programs/knowledge-for-change/brief/agriculture-and-rural-development>
- <https://data.worldbank.org/topic/agriculture-and-rural-development>
- <https://sdgs.un.org/topics/rural-development>

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| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: FIRST</b>   | <b>Semester:<br/>SECOND</b> |
| <b>Ability Enhancement Course</b>  |  |                             |
| <b>Course Code:<br/>A080807T</b>   | <b>Course Title: ENVIRONMENTAL<br/>ECONOMICS</b>   | <b>Credits: 4</b>           |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:  |  |                             |
| <b>CO-1)</b> Identify the situations of market failure in case of environmental goods.   |  |                             |
| <b>CO-2)</b> Outline the economic techniques for environmental problems, environmental policies through which environmental degradation can be controlled.   |  |                             |
| <b>CO-3)</b> Analyze the basics of environment, techniques used for valuation of environmental quality at Global.  |  |                             |
| <b>CO-3)</b> Explain the environmental issues: pollution, recourse management, Emission Standards, Pollution Tax and related theories with inter linkage model.                                    |  |                             |
| <b>CO-5)</b> Produce research skills in the field of environmental economics that create new alternatives to combat current environmental crisis.  |  |                             |
| <b>CO-6)</b> Evaluate the sustainability aspect associated with natural resources and policies.  |  |                             |
| <b>UNIT</b>  | <b>TOPICS</b>  |                             |
| <b>I</b>   | <b>Environmental Economics:</b> Meaning and Scope, Environment and Economy: Neo-classical and Ecological Economics Perspectives, Interlink ages, Material Balance Model, environment and Development Trade-off, Functions of Environment.                  |                             |
| <b>II</b>  | Deviation from economic efficiency, Pollution as Externality, Environmental Quality as Public Good, Case of Market failure, Social Optimum Level of Pollution and changes in it.   |                             |
| <b>III</b>   | <b>Economics of Environmental Regulations:</b> Liability Laws, Allocation of Property rights, Emission Standards, Pollution Tax and Transferable Pollution Permit.   |                             |
| <b>IV</b>  | <b>Limits to Growth:</b> Malthusian Neo – classical and Ecological Economics Perspectives, Sustainable Development: Concept, Rules Approaches to sustainability and indicator, Common Property Resources: Problem and Management, Issue of Climate Change. |                             |
| <b>References:</b>   |  |                             |
| 1. Villamayor-Tomas, S., & Muradian, R. (2023). <i>The Barcelona School of Ecological Economics and Political Ecology: A Companion in Honour of Joan Martinez-Alier</i> (p. 400). Springer Nature. |  |                             |
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**E-Journals / E-links:**

- <https://www.sciencedirect.com/journal/journal-of-environmental-economics-and-management>
- <https://www.businessperspectives.org/index.php/journals/environmentaleconomics>
- <https://www.journals.uchicago.edu/toc/jaere/current>
- <https://www.elsevier.com/journals/journal-of-environmental-economics-and>
- <https://www.cambridge.org/core/journals/environment-and-development-economics>

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|--|--|-----------------------------|
| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: FIRST</b>   | <b>Semester:<br/>SECOND</b> |
| <b>Ability Enhancement Course</b>  |  |                             |
| <b>Course Code:<br/>A080808T</b>   | <b>Course Title: MATHEMATICAL<br/>ECONOMICS</b>  | <b>Credits: 4</b>           |
| <b>Course Outcome:</b> On completion of this course, students will be able to:   |  |                             |
| <b>CO-1)</b> Present the economic functions, economic variables, equations and identities for human welfare in India.  |  |                             |
| <b>CO-2)</b> Identify the role of various equations and functions in supply and demand models, total cost, total revenue, and total profit etc.  |  |                             |
| <b>CO-3)</b> Apply the economic variables in larger dimensions, and linear programming for best allocation of economic resources for sustainable development.                                      |  |                             |
| <b>CO-4)</b> Use the ability to accurately translate complex economic problems into mathematical models and hone the skills to solve the problems through a wide array of mathematical techniques. |  |                             |
| <b>CO-5)</b> Access the macroeconomic environment with a specific knowledge on India Economy to sharpen their understanding of some of these macro concepts and models, and policy instruments.    |  |                             |
| <b>CO-6)</b> Evaluate consumers and producers behavior for optimize their buying and selling decisions in Global & National Market.  |  |                             |
| <b>UNIT</b>  | <b>TOPICS</b>  |                             |
| <b>I</b>   | <b>Differentiation and Integration:</b> Set Theory, Relation and Function, Limit, Continuity, Differentiation of algebraic, exponential, logarithmic, trigonometric, and implicit functions; Partial Differentiations, Euler's theorem and total differentials; Maxima and minima with and without constraints; Indefinite and definite integrals, Applications of static optimization techniques; Economic applications of differentiation and integration. |                             |
| <b>II</b>  | <b>Differential and Difference Equations:</b> Differential and difference equations of first and second order; Applications for determining Market Equilibrium and other economic applications.  |                             |
| <b>III</b>   | <b>Linear Algebra:</b> Concept of Vector; Matrix: Types, properties of determinants, rank and inverse of matrix; System of linear equations, Solution by Cramer's rule and matrix inverse method, Linear independence and dependence of vectors, characteristic roots and vectors, quadratic forms.  |                             |
| <b>IV</b>  | <b>Linear Programming:</b> Formulation and solution of linear programming problem; simplex and graphical methods, Concept of Duality; Input-Output Analysis – Open and Closed Models; Game Theory & its Applications.  |                             |
| <b><u>References:</u></b>  |  |                             |
| 1. Mohajan, D., & Mohajan, H. K. (2023). Utility Maximization Analysis of an   |  |                             |

- Organization: A Mathematical Economic Procedure. *Law and Economy*, 2(1), 1-15.
2. Ahmad Mala, F. (2023). *Mathematical Analysis and Optimization for Economists*: by Michael J. Panik, Chapman & Hall, 2021, 345 pp., \$52.49 (HB), ISBN: 9780367759018.
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**E-Journals / e-Links:**

- <https://www.sciencedirect.com/journal/journal-of-mathematical-economics>
- <https://www.elsevier.com/journals/journal-of-mathematical-economics/0304-4068/guide-for-authors>
- <https://www.scimagojr.com/journalsearch.php?q=28999&tip=si>
- [https://www.mdpi.com/journal/mathematics/special\\_issues/Mathematical\\_Economics](https://www.mdpi.com/journal/mathematics/special_issues/Mathematical_Economics)
- <https://www.ijhssm.org/>
- <https://www.aimspress.com/journal/qfe>

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| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: SECOND</b>   | <b>Semester:<br/>THIRD</b> |
| <b>Core Course( Paper I)</b>   |   |                            |
| <b>Course Code:<br/>A080901T</b>   | <b>Course Title: STATISTICAL METHODS</b>  | <b>Credits: 4</b>          |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:  |   |                            |
| <b>CO-1)</b> Identify the basic statistical tools for employment in various sector of international, national, regional and local market.  |   |                            |
| <b>CO-2)</b> Select the data collection techniques and data analysis in Environmental Economics.   |   |                            |
| <b>CO-3)</b> Analyze statistical tools in business, economical and commercial areas with the help of time series, index numbers, etc. to make better decisions for future in their fields.   |   |                            |
| <b>CO-4)</b> Compare the critical thinking in the theory of probability and its applications in real life problems.  |   |                            |
| <b>CO-5)</b> Construct the use of various techniques of correlation, regression, Statistical Packages (STATA and SPSS).  |   |                            |
| <b>CO-6)</b> Design the statistical tools in various economic problems & economic theories like Labor force, Women Employment, Working Population etc.   |   |                            |
| <b>UNIT</b>  | <b>TOPICS</b>   |                            |
| <b>I</b>   | <b>Descriptive Statistics:</b> Collection, Organization and Presentation of Data, Measurement of central tendency and dispersion-mean, median, mode, mean deviation, standard deviation, correlation coefficients, Correlation and regression analysis. Measures of Skewness and Kurtosis.  |                            |
| <b>II</b>  | <b>Theory of Probability:</b> Probability, distribution, events spaces, Joint marginal and conditional probability under conditions of certainty and uncertainty.   |                            |
| <b>III</b>   | <b>Random variable:</b> Expectation and Distribution. Addition and Multiplication Theorems, distributions: Binomial, Poisson, Normal, Chi-square, test. T-test and F-test.  |                            |
| <b>IV</b>  | <b>Statistical Estimation and Testing of Hypothesis:</b> Types of estimators and their properties, Sampling distribution for sample mean and proportion. Time Series: Nature and decomposition of a time series trends, Cyclical, seasonal and random components. Measurement of trends: Moving averages, least squares method, Index Numbers: Importance, Types, Whole Sale price Index. |                            |
| <b>References:</b>   |   |                            |
| <ol style="list-style-type: none"> <li>1. Snijkers, G., Bavdaž, M., Bender, S., Jones, J., MacFeely, S., Sakshaug, J. W., ... &amp; van Delden, A. (2023). Advances in business statistics, methods and data collection: introduction. <i>Advances in Business Statistics, Methods and Data Collection</i>, 1-22.</li> <li>2. Reinsel, G. C., Velu, R. P., &amp; Chen, K. (2022). <i>Multivariate Reduced-Rank Regression: Theory, Methods and Applications</i> (Vol. 225). Springer Nature.</li> <li>3. Keller, G. (2022). <i>Statistics for management and economics</i>. Cengage Learning.</li> <li>4. Bandyopadhyay, A. (2022). <i>Basic Statistics for Risk Management in Banks and Financial Institutions</i>. Oxford University Press.</li> </ol> |   |                            |

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- <https://www.springer.com/journal/10260>
- <https://academicworldresearch.org/journals>.

- <https://jbds.isdsa.org/index.php/jbds>
- <https://www.scimagojr.com/journalsearch.php?q=19700182104&tip=sid>
- <https://ssca.org.in/journalvolumes/1/>
- <https://pages.stern.nyu.edu/~jss2/statjournals.html>

**Programme:**

**Year: SECOND**

**Semester:**



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| <b>ECONOMICS</b>   |   | <b>THIRD</b>      |
| <b>Core Course/ Paper</b>  |   |                   |
| <b>Course Code:<br/>A080902T</b>   | <b>Course Title: ECONOMICS OF<br/>GROWTH AND DEVELOPMENT</b>  | <b>Credits: 4</b> |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:  |   |                   |
| <b>CO-1)</b> Outline the Indian Economic Problems related with women Empowerment, Employability, Gender Index, Wage Rate, Poverty and inequality . |   |                   |
| <b>CO-2)</b> Analyze the Regional variations and theories of policy implication by Schumpeter, Rostov, Harrod- Domar etc.                          |   |                   |
| <b>CO-3)</b> Compute the role of agriculture and industry in the era of globalization.   |   |                   |
| <b>CO-4)</b> Compare the social, political and economic environment influencing policy decisions.  |   |                   |
| <b>CO-5)</b> Evaluate the theories and models of Sustainable development for Economic growth.  |   |                   |
| <b>CO-6)</b> Construct the conceptual clarity, strengthens theoretical foundations and develops critical thinking skills                           |   |                   |
| <b>UNIT</b>  | <b>TOPICS</b>   |                   |
| <b>I</b>   | <b>Basic Issues:</b> Economic Growth and Economic Development- Meaning, concept, Measurement and Development, Economic Growth and Social Justice: Kuznet's hypothesis, growth-Distribution Trade off. Basic needs approach, Hunger, Entitlement and capability, Human Development- HDI, HPI, Poverty Indices, Gender Index. Human Resources & Human Values. |                   |
| <b>II</b>  | <b>General Theories:</b> Classical Theories: Adam Smith, Ricardo, Marx's theory of development, Theories of Schumpeter, Rostow, Harrod- Domar growth Models, Solow and Model of Joan Robinson   |                   |
| <b>III</b>   | <b>Partial Theories:</b> Theory of Big Push, Balanced and Unbalanced growth, social and Technological dualism, Lewis Model, Fie and Ranis Model, Trade and Development: Trade as engine of growth, static and dynamic gains from trade, Prebisch, Singer and Myrdal Thesis.   |                   |
| <b>IV</b>  | <b>Problem and Policy:</b> Population and Development, Poverty and Developments, Environment and Development Capital formation and development Globalization and development of less developed countries. Investment Criteria, WTO and developing countries.  |                   |
| <b>References:</b>   |   |                   |
| 1. Hanushek, Eric A., and Ludger Woessmann. <i>The knowledge capital of nations: Education and the economics of growth</i> . MIT press, 2023.      |   |                   |
| 2. Van den Berg, H. (2016). <i>Economic growth and development</i> . World Scientific Publishing Company.  |   |                   |



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22. Kahkonon, S and M. Olson (2000), *A New Institutional Approach to Economic development*, vistaar.
23. Todaro, M.P. (1996), (6 th Edition), *economic Development*, Longman, London.
24. Thirwal, A.P. (1999), (6 th Edition), *growth and development*, Macmillan, U.K.
25. Von Tunzelmann, G. N. (1995). *Technology and industrial progress: the foundations of economic growth*. Edward Elgar Publishing.
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27. Gillis, M., Perkins, D. H., Roemer, M., & Snodgrass, D. R. (1992). *Economics of Development* (3 rd).
28. Thirlwall, A. P. (1989). *Growth and development: with special reference to developing economies*. Springer.
29. Chenery, H. B., Schultz, T. P., Srinivasan, T. N., Strauss, J., & Behrman, J. R. (Eds.). (1988). *Handbook of development economics* (Vol. 4). Elsevier.
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**E-Journals / e-Links:**

- <https://www.springer.com/journal/40847>
- <https://onlinelibrary.wiley.com/journal/14679361>
- <https://www.journals.uchicago.edu/toc/edcc/current>
- <https://jseg.ro/index.php/jseg>
- [https://populationmatters.org/the-facts-development/?gclid=EAiaIQobChMIIn-3mpreV\\_wIVtppmAh2b1gnUEAMYASAAEgJFGfD\\_Bw](https://populationmatters.org/the-facts-development/?gclid=EAiaIQobChMIIn-3mpreV_wIVtppmAh2b1gnUEAMYASAAEgJFGfD_Bw)
- <https://www.sciencepublishinggroup.com/journal/index?journalid=297>

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|---|--|-------------------|
| <b>Discipline Centric Elective</b>  |  |                   |
| <b>Course Code:</b><br>A080903T   | <b>Course Title: INDIA'S FOREIGN TRADE &amp; INTERNATIONAL INSTITUTIONS</b>  | <b>Credits: 4</b> |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:   |  |                   |
| <b>CO-1)</b> Identify the, role of International Institutions: WTO, World Bank, IMF and Asian Development Banks for Environment & Sustainable development in India. |  |                   |
| <b>CO-2)</b> Select the prospects of a systematic exposition of models that try to explain composition, direction and consequences of international trade.          |  |                   |
| <b>CO-3)</b> Compare the different theories of Employability by Hecksher- Ohlin, Stolper-Samuelson and Rybsznski.   |  |                   |
| <b>CO-4)</b> Explain the effects of trade policy, regional trading blocks, BOPs and its adjustments in India.   |  |                   |
| <b>CO-5)</b> Predict the role of international investment, impact of economics and regional integration on international trade.                                     |  |                   |
| <b>CO-6)</b> Evaluate suitable trade policy for a country can formulate to manage trade relations with other countries.   |  |                   |
| <b>UNIT</b>   | <b>TOPICS</b>  |                   |
| <b>I</b>  | India's Foreign Trade: Value, Composition and Direction. Foreign Trade Policy in India. Foreign Trade Policy (2015-2020) and Foreign Trade Policy (2023). Special Economic Zone (SEZ). |                   |
| <b>II</b>   | Economic Integration: The theory of Custom Union, Effects of Custom Union- Static effect, Lipsey Model, Vanek Model.   |                   |
| <b>III</b>  | Trade Blocks and Regional Economic Cooperation, SAARC, ASIAN, NAFTA, EU. Multinational Corporations, FERA and FEMA   |                   |
| <b>IV</b>   | Globalization and New International Economic Order – Evolution and objects. International Institution - W.T.O., I.M.F., World Bank, and Asian Development Bank.                        |                   |

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- <https://www.ijtsrd.com/economics/international-economics/30785/an-analysis-on-india%E2%80%99s-foreign-trade/dr-s-senthi>
- [https://en.wikipedia.org/wiki/Indian\\_Institute\\_of\\_Foreign\\_Trade](https://en.wikipedia.org/wiki/Indian_Institute_of_Foreign_Trade)

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|--|--|----------------------------|
| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: SECOND</b>  | <b>Semester:<br/>THIRD</b> |
| <b>Discipline Centric Elective</b>   |  |                            |
| <b>Course Code:<br/>A080904T</b>   | <b>Course Title ECONOMICS OF HUMAN<br/>RESOURCE DEVELOPMENT</b>  | <b>Credits: 4</b>          |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:  |  |                            |
| <b>CO-1)</b> Outline the basic concepts of economics of human resource development at local level in India.                                  |  |                            |
| <b>CO-2)</b> Identify the reasoning skills to find ways to improve human resource Development.   |  |                            |
| <b>CO-3)</b> Apply various theories of education, health, Gender, Infrastructure, Human Values to enhance human resource Development.        |  |                            |
| <b>CO-4)</b> Plan the Structures and Functions of Multi level Planning and Decision Making for Sustainable Development.                      |  |                            |
| <b>CO-5)</b> Evaluate the effectiveness of Skill development theories in education and health policies for improving human capital.          |  |                            |
| <b>CO-6)</b> Predict the growth and structure of Skilled labor through various theories of wage determination in different regions of India. |  |                            |
| <b>UNIT</b>  | <b>TOPICS</b>  |                            |
| <b>I</b>   | Human capital and signaling theories of education, Education facilities Rural-Urban divide; Brain drain in India: Causes and solutions, Significance of vocational education, FDI in Education Industry, New Education Policy.   |                            |
| <b>II</b>  | Human Development Index, India's educational system-Problems and suggestions, Problems and suggestions; Human capital in India; Supply and Demand and the Role of Government in Higher Education in India, Structure and Functions of Multilevel Planning and Decision Making for Sustainable Development. |                            |
| <b>III</b>   | Economics of Health-Concept, dimensions and indicators; Determinants of health status, Key health economics concepts; Food and nutrition in India; Affordability and access to health care facilities; Burden of disease;  |                            |
| <b>IV</b>  | <b>Sectoral composition of Indian Economy:</b> Issues in Agriculture sector in India, Agriculture policies of India, Industrial development, small scale and cottage industries, industrial Policy, Public sector in India, service sector in India.   |                            |
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- <https://onlinelibrary.wiley.com/journal/15321096>
- <https://www.tandfonline.com/toc/rhrd20/current>
- <https://ideas.repec.org/s/ids/ijhrdm.html>
- <https://www.humanresourcejournal.com/>
- <https://guides.libraries.psu.edu/human-resources/journals>
- <https://www.jhrm.eu/>
- <https://www.emerald.com/insight/publication/issn/0967-0734>
- <https://www.ijterm.org/index.php/jehrd>
- <https://www.google.com/search?q=human+resource+development+related+e+journals&ei>
- <https://sajhrm.co.za/index.php/sajhrm>



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|--|---|----------------------------|
| <b>Programme:<br/>ECONOMICS</b>  | <b>Year: SECOND</b>   | <b>Semester:<br/>THIRD</b> |
| <b>Core Course/ Paper</b>  |   |                            |
| <b>Course Code:<br/>A080905T</b>   | <b>Course Title: PUBLIC ECONOMICS</b>   | <b>Credits: 4</b>          |
| <b>Course outcomes:</b> On completion of this course, students will be able to:  |   |                            |
| <b>CO-1)</b> Identify the policy issues and relevant analytical and empirical tools for sustainable development at regional level.   |   |                            |
| <b>CO-2)</b> Prepare the efficiency in resource allocation and role of the state in public finance at local level.   |   |                            |
| <b>CO-3)</b> Analyze the taxation, public expenditure, budget process, structure, rational choice prospects and progress of GST in India.  |   |                            |
| <b>CO-4)</b> Explain the structure and growth of public expenditure for human values in India.   |   |                            |
| <b>CO-5)</b> Predict the analytical aspects of fiscal policy, public welfare policies as well as fiscal federalism.  |   |                            |
| <b>CO-6)</b> Evaluate public spending policies for Employment and classification of public expenditures.   |   |                            |
| <b>UNIT</b>  | <b>TOPICS</b>   |                            |
| <b>I</b>   | <b>Introduction:</b> Nature and Scope of Public Finance, role of Government in organized society, role in mixed economy, Public and Private Sector, Principle of Maximum Social Advantage.  |                            |
| <b>II</b>  | <b>Public Expenditure:</b> Pure theory of Public expenditure, Structure and Growth of Public expenditure, Wagner's law of increasing state activities, Wiseman peacock hypothesis, Zero base budgetary, classification of public expenditure.   |                            |
| <b>III</b>   | <b>Taxation:</b> Sources of Public revenue, canons of taxation, Direct and Indirect tax, Theories of incidence, nature and concept of incidence. Benefit and Ability to pay theories, Goods and service tax.  |                            |
| <b>IV</b>  | <b>Public debt:</b> Classical view, sources of public debt, types burden of public debt, types of budget deficits, Fiscal deficits, Deficits Financing: concept, need, effects on economy, Fiscal Policy: Objectives, importance, and tools of fiscal policy, Fiscal policy in India. |                            |
| <b>References:</b>   |   |                            |
| <ol style="list-style-type: none"> <li>1. Tresch, R. W. (2022). <i>Public finance: A normative theory</i>. Academic Press.</li> <li>2. Fisher, R. C. (2022). <i>State and local public finance</i>. Routledge.</li> <li>3. Garrett, T. A., &amp; Leatherman, J. C. (2020). <i>An introduction to state and local public finance</i>.</li> <li>4. Shoup, C. (2017). <i>Public finance</i>. Routledge.</li> <li>5. Atkinson, A. B., &amp; Stiglitz, J. E. (2015). <i>Lectures on public economics: Updated edition</i>. Princeton University Press.</li> <li>6. Peterson, S. (2015). <i>Public finance and economic growth in developing countries:</i></li> </ol> |   |                            |

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- <https://jife-journal.org/JIFE-JOURNAL/Default.aspx>

**Programme:  
ECONOMICS**

**Year: SECOND**

**Semester:  
THIRD**

| <b>Core Course/ Paper</b>   |   |                   |
|---|---|-------------------|
| <b>Course Code:</b><br>A080906T   | <b>Course Title: ECONOMIC<br/>DEVELOPMENT OF UTTAR PRADESH</b>  | <b>Credits: 4</b> |
| <b>Course Outcomes:</b> On completion of this course, students will be able to:   |   |                   |
| <b>CO-1)</b> Identify the pattern of change in industrial development enabling holistic sustainable economic growth across all regions and generate employment under One district One Product.  |   |                   |
| <b>CO-2)</b> Outline the causes and victims of environmental pollution like poverty, population explosion, and over-use of resources, careless or unscientific dump/management of wastes in Economy of Uttar Pradesh.                 |   |                   |
| <b>CO-3)</b> Analyze the characteristics and issues for development, Demographic features, and Agricultural development in the Economy of Uttar Pradesh.  |   |                   |
| <b>CO-4)</b> Explain the sustainable use of resources so that scarce resources will be available for future generations.  |   |                   |
| <b>CO-5)</b> Asses the opportunities of Employment available in those flourishing sectors such as horticulture, fishing, floriculture and forestry in Uttar Pradesh.  |   |                   |
| <b>CO-6)</b> Evaluate the causes of regional variations in productivity and production, social and economic inequality, size of land holdings and lack of quality inputs etc. and suggest appropriate measures for the whole economy. |   |                   |
| UNIT  | TOPICS  |                   |
| <b>I</b>  | Basic features of economy of U.P., characteristics and issues for development, Demographic features, Agricultural Development in Uttar Pradesh, Pattern of Industrial Development of UP. Small scale and cottage Industries in U.P.   |                   |
| <b>II</b>   | Nature, Features, Demographic Profile, Status of Natural Resources, Major Factors affecting growth and development in Uttar Pradesh. Economic and non-economic factors in economic development of Uttar Pradesh.  |                   |
| <b>III</b>  | Sectoral growth pattern in; Economic growth in Uttar Pradesh and Indian economy: A comparison; Infrastructural development of Uttar Pradesh.  |                   |
| <b>IV</b>   | Foreign Trade Policy in India. India's Foreign Trade Composition and Direction. International Institution, W.T.O, I. M.F., World Bank , and Asian Development Bank.   |                   |
| <b>V</b>  | Problems and Policies. Major industries in Uttar Pradesh, Pattern of Industrial Development in Uttar Pradesh, Industrial Policy in Uttar Pradesh, Growth pattern of Services sector and Its linkages of other sectors of UP Economy. Micro, Small, Medium Enterprises (MSMEs) in Uttar Pradesh. One Product One District (OPOD) |                   |
| <b><u>References:</u></b>   |   |                   |
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2. Misra, B. S. (2022). *Development and Economic Growth in India: Drivers for Indian States*. Taylor & Francis.
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district of Uttar Pradesh. *Yojana*, 34(6), 25-27.

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- <https://journals.sagepub.com/home/edq>
- <https://www.journals.uchicago.edu/toc/edcc/current>
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- [https://www.gids.org.in/Journal\\_Articles.html](https://www.gids.org.in/Journal_Articles.html)