



BACHELORS OF ARTS
(ECONOMICS)

Syllabus with effect from the Academic Year 2026-27

B.A. (Economics) Semester -VII

Course Code	UA07HMAECO01	Title of the Course	Statistical Techniques for Economics
Total Credits of the Course	4	Hours per Week	4
Course Objectives:	1. To explain the measures of descriptive statistics 2. To explain the relationship between various types of variables. 3. To aware the students about various indexation methods and construction of the various types of indices		

Course Content		
Unit	Description	Weightage (%)
1.	Descriptive Statistics 1.1 Method of Data Collection and Presentation of Data 1.2 Frequency Distribution 1.3 Measures of Central Tendency and their Application in Economics Analysis 1.4 Measures of Dispersion and their Application in Economics Analysis	25%
2.	Simple Correlation 2.1 Concept and Types of Correlation 2.2 Scatter Diagrams 2.3 Coefficient of Correlation – Product Moment Method and Rank Correlation Method 2.4 Application of correlation in Economics	25%
3.	Regression 3.1 Concepts and measurement 3.2 Methods for deriving the regression coefficients, regression equations, regression lines 3.3 Application of regression analysis in Economic Analysis. Association of Attributes 3.4 Concept and type of association of attributes 3.5 Consistency of data 3.6 Methods for measuring the association of Attributes	25%
4.	Index Numbers 4.1 Concept and types of indices 4.2 Importance and Utilisation of Index Numbers in Economic Analysis 4.3 Methods of Construction of various type of Index Numbers 4.4 Problems in Construction of Index Numbers	25%

Teaching-Learning Methodology	The course would be taught/learnt through various means like lectures, discussions, writing assignments, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities and self-learning.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	25%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	25%
3.	University Examination	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Solve the real-world problems in decision-making, quality control and risk analysis using probability
2.	Analysis and understand the implications of economic inequality and evaluate the effectiveness of social policies using visual data.
3.	Determine the linear relationship between economic variables.
4.	Utilize various index numbers to analyse economic trends, formulate policies, and measure inflation or deflationary tendencies.
5.	Use price indices as “deflators” to convert nominal values into real terms for more accurate economic comparisons.

Suggested References:

Sr. No.	Title	Author(s)	Edition/Year	Publisher
1	Fundamentals of Applied Statistics	Gupta S. C. & Kapoor V.K.	2007	S. Chand & Sons, New Delhi.
2	Numerical Methods of Statistical Analysis	Grewal P S	1987	S P Pvt. Ltd., New Delhi
3	Fundamentals of Mathematical Statistics	Gupta S. C. & Kapoor V.K.	10th edition 2002	S. Chand & Sons, New Delhi.
4	An Introduction to Statistical Methods	Gupta C.B.& Gupta Vijay	23 rd edition 2004	Vikas Publishing House Pvt. Ltd., Noida
5	Quantitative Methods of Economics	Dave M.B & Pandya K	2012	Popular, Surat (Gujarati)
6	Business Statistic	Patel R.K. & Patel L.B.	2011	C. Jamanadas Co. Ahmedabad.
7	Dhandhakiya Ankadashastra	Patel Balubhai	2015	University Granthnirman Board, Ahmedabad.
8	Arthshastrama Ganitshastra	Zala M.L.	1995	Purbiti Prakashan, Vallabh Vidyanagar.
9	Arthvishayak Ankadashastra	Dr. Jaiswal M.C.	1992	University Granthnirman Board, Ahmedabad.



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B.A. (Economics) Semester - VII

Course Code	UA07HMAECO02	Title of the Course	Basics of Research Methodology for Economics
Total Credits of the Course	4	Hours per Week	4

Course Objectives:	1. To make the students aware about various kinds of research. 2. To make the student able to identify the research problem. 3. To inculcate skills and knowledge to undertake the survey.
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Course Content		
Unit	Description	Weightage (%)
1.	Meaning & Significance of Research 1.1 Definition, Characteristics, Classification 1.2 Social Research- Types, Motivations, Factors, Basic Assumptions; Importance of Social Research 1.3 Problems encountered by Researcher 1.1 Phases of Social Research: Selection of a Research Problem, Precautions to be undertaken, Formulation of a Research Problem: Statement of a Research Problem, Objectives, Review of Literature	25%
2.	Review of Literature and Research gap 2.1 Meaning of literature review 2.2 Sources 2.3 Types 2.4 Process 2.5 Find the research gap	25%
3.	Data Collection - I 3.1 Nature and Sources of Data- Primary and Secondary Data; Census and Sample Methods 3.2 Data for Research: Methods of Primary and Secondary Data Collection, Precautions to be Taken while Collecting Data, Limitations 3.3 Meaning and scope of socio-economic survey - types of survey - objective and importance of socio - economic survey in India, 3.4 Planning of socio-economic survey - the main planning problems - pilot survey documentary sources, secondary and primary data	25%
4.	Data Collection-II 4.1 Coverage of survey - universe, idea and advantage of sampling - census and sample survey - accuracy, bias and precision - sampling distribution and standard error - confidence interval, - measure of efficiency of sampling design. Types of sampling design 4.2 Interviewing technique - meaning and types of interviewing - necessary condition for successful interview- formal and informal interviewing- interviewer's task - selection and training, Processing of data - classification - tabulation - interpretation of table and relationship	25%



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Teaching-Learning Methodology	The course would be taught/learnt through various means like lectures, discussions, writing assignments, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities and self-learning.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	25%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	25%
3.	University Examination	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Define the core characteristics of social research and distinguish between various classifications to understand how scientific inquiry applies to societal issues.
2.	Demonstrate the ability to identify, state, and formulate a research problem while establishing clear objectives and testable hypotheses.
3.	Conduct a comprehensive review of literature to identify research gaps and provide a theoretical framework for their study.
4.	Differentiate between primary and secondary data sources and select appropriate census or sampling methods for their specific research goals.
5.	Acquire the skills to edit, code, and classify raw data into organized series ready for statistical analysis.
6.	Apply measures of central tendency, dispersion, and regression to interpret data patterns and relationships effectively.

Suggested References:	
1.	Kothari C.R. (2009), "Research Methodology- Methods and Techniques", New Age International Publishers, New Delhi
2.	Joshi K. (1984), "Econometrics", Viral Prakashan, Ahmedabad
3.	Raiyani J. R. (2012), "Research Methodology- Theory and Techniques", New Century Publications, New Delhi
4.	Verma R. K. & Verma G. (1989), "Research Methodology", Commonwealth Publishers, New Delhi
5.	Rajaraman (2003), "Fundamentals of Computers", PHI Publication, New Delhi
6.	Gupta S C; Fundamental of Applied Statistics. S. Chand & Sons, New Delhi.
7.	Grewal P S; Numerical Methods of Statistical Analysis, S P Pvt. Ltd., New Delhi.
8.	Bose D.; An Introduction to Mathematical Economics, H P H. Bombay, Delhi.
9.	Gupta C.B.; An Introduction to Statistical Methods, Delhi.
10.	Gupta C.B.; An Introduction to Statistical Methods, Delhi.



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11.	Patel R.K. & Patel L.B.; Business Statistic, C. Jamanadas Co. Ahmedabad.
12.	Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmedabad.
13.	Zala M.L.; Arthshastrama Ganitshastra, Purbiti Prakashan, Vallabh Vidyanagar.
14	Dr. Jaiswal M.C.; Arthvishayak Ankadashastra, Uni. Granthnirman Board, Ahmedabad.



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B.A. (Economics) Semester - VII

Course Code	UA07HMAECO03	Title of the Course	Micro Economic Theories
Total Credits of the Course	4	Hours per Week	4
Course Objectives:	1. To explain basic concepts of different Economic Systems 2. To be able to distinguish between the operations of different economic systems and its consequences on an economy 3. To appreciate the characteristics of the Indian economy as a mixed economy		

Course Content		
Unit	Description	Weightage (%)
1.	Micro and Macro Economics: 1.1 Static and dynamic Analysis 1.2 Methodology of Economics – Deductive and Inductive Methods 1.3 Equilibrium Analysis- Meaning and Kinds of Equilibrium – Stable, Unstable and Neutral	25%
2.	Demand Analysis: 2.1 Utility Approach-Diminishing Marginal Utility and Equi- marginal utility, Indifference curve approach –characteristics 2.2 Consumer's equilibrium, Hicks and Slutsky Theorems 2.3 Inferior and Giffen Goods 2.4 Price Elasticity of demand –Percentage method, Total outlay method, Point method and Arc method, 2.5 Consumer's surplus – Marshall and Hicks	25%
3.	Theory of Production: 3.1 Law of Variable proportions 3.2 Iso-quants- characteristics 3.3 Producer's equilibrium 3.4 Laws of Returns – The law of diminishing returns, the law of constant return, the law of increasing returns	25%
4.	Distribution Theory(Theory of factor pricing): - 4.1 General view 4.2 Marginal productivity theory 4.3 Theories of rent- Concepts, Ricardian and modern approaches 4.4 Theories of profit – Risk, Uncertainty, Innovation	25%

Teaching-Learning Methodology	The course would be taught/learnt through various means like lectures, discussions, writing assignments, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities and self-learning.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	25%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	25%
3.	University Examination	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Differentiate economic methodologies and apply static and dynamic analysis to explain various economic phenomena.
2.	Evaluate equilibrium states and analyze stable, unstable and neutral equilibrium.
3.	Analyze consumer choice models with differentiating between income and substitution effects.
4.	Calculate price elasticity of demand using multiple techniques and measure consumer surplus.
5.	Synthesize production and returns and identify producer's equilibrium using marginal rate of technical substitution.
6.	Assess factor pricing and distribution and critically examine various theories of distribution.

Suggested References:	
Sr. No.	References
1.	Ahuja, H. L. Advanced economic theory-Microeconomic Analysis. New Delhi: S. Chand & Co.
2.	Jhingan M.L.; Advanced Economic Theory, Vrinda Publications, Delhi
3.	Deweet K.K., Modern economic theory, S.Chand and Company, New Delhi.
4.	Hirshleifr J. and Glazer A., Price theory and applications, Prentice Hall, New Delhi.
5.	Koutsoyiannis A., Modern Microeconomics, Macmillan press, London.
6.	Lipsey and Chrystal, Economics, Oxford University Press, New Delhi.
7.	Prasad K.N., Lectures on micro-economic theory, Himalaya publishing house.
8.	Sen Anindya., Microeconomics-Theory and applications, Oxford Uni. press, Delhi.
9.	Seth M.L., Principles of Economics (Micro and Macroeconomics) Lakshmi Narain Agrawal, Agra.
10.	Stigler., Theory of price, Prentice hall, New Delhi.
11.	Stonier A and Hague D., A Textbook of Economic theory, Longman group, London.
12.	Sundharam K.P.M. and Sundharam E.N., Economic Analysis, S. Chand and sons, Delhi.
13.	Samuelson, Economics, Tata McGraw Hill, New Delhi



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BACHELORS OF ARTS
(ECONOMICS) Semester - VII

Course Code	UA07HMIECO01	Title of the Course	Basics of Environmental Economics
Total Credits of the Course	4	Hours per Week	4
Course Objectives:	1. To explain the meaning of environment and clarify the relationship between the ecology and the economy 2. To define the types of goods and their characteristics 3. To explain the fundamental theorems of Welfare economics 4. To examine the concept and dimensions of sustainable development environmental pollution 5. To analyze various methods of valuation of the environment 6. To demonstrate the integration of environmental and economic accounting		

Course Content		
Unit	Description	Weightage (%)
1.	Fundamental Concepts: 1.1 Concepts of environment, Rationale of Environmental Economics, components of the ecological system, two-way environment-economy linkages 1.2 Characteristics of the environment as an economic good, Market inefficiencies-externalities, absence of property rights, missing markets 1.3 Open Access Resource, public goods, common property resources, transaction costs	25%
2.	Fundamental Definitions: 2.1 Concepts of Welfare economics: Pareto optimality, compensation principle 2.2 Trade-off between environment and development, Kuznets curve 2.3 Concept, definition, dimensions of sustainable development	25%
3.	Measurement of Environmental Values: 3.1 Methods based on observed market behavior 3.2 Objective methods: cost of illness method, human capital approach, statistical value of life approach, marginal abatement cost method 3.3 Subjective methods: travel cost method, hedonic property price method, net price (cost of extraction) method etc. 3.4 Methods based on response to hypothetical markets: Contingent Valuation Method	25%
4.	Environmental Accounting: 4.1 Accounting and the Environment 4.2 Integrated environmental and economic accounting and measurement of environmentally corrected GDP	25%



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Teaching-Learning Methodology	The course would be taught/learnt through various means like lectures, discussions, writing assignments, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities and self-learning.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	25%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance	25%
3.	University Examination	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Illustrate the various components of the environment and identify the relationship between the ecology and the economy
2.	Identify the types of goods according to their characteristics
3.	Apply the fundamental theorems of Welfare economics to environmental issues
4.	Differentiate between the various dimensions of sustainable development
5.	Analyze various methods of valuation of the environment
6.	Demonstrate the integration of environmental values into economic accounting

Suggested References:	
Sr. No.	References
1.	Baumol, W.J. and W.E. Oates (1988). The Theory of Environmental Policy, Cambridge University Press.
2.	Bhattacharya, R.N. (Ed.) (2001). Environmental Economics: An Indian Perspective, Oxford University Press.
3.	Brandon, C., K. Hommann and N.M. Kishor (1995). The Cost of Inaction: Valuing the Economy-wide Costs of Environmental Degradation in India. Paper presented at the UNU Conference on the 'Sustainable Future of the Global System', organised by the United Nations University/Institute of Advanced Studies, National Institute for Environmental Studies, Tokyo, Japan, Oct. 16-18.
4.	Bromley, Daniel W. (Ed.) (1995). Handbook of Environmental Economics, Blackwell Publishers.
5.	Callan, S.J. and J.M. Thomas (2000). Environmental Economics and Management: Theory, Policy and Applications.
6.	Dixon, J.A. et al. (1994). Economic Analysis of Environmental Impacts. Earthscan Publications Ltd., London.
7.	Field, Barry C. and Martha Field (2002). Environmental Economics: An Introduction (3rd ed.). McGraw-Hill Irwin.
8.	Hanley, N. et al. (2001). Introduction to Environmental Economics, Oxford University Press, New York.
9.	Kerr, John M. et al (1997). Natural Resource Economics: Theory and Applications in India, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.



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10.	Khakhhar, K.K., “ ParyavaraniyaArthashastrana Payana Siddhanto”, (2004), Adarsh Printing Press, Rajkot.
11.	Lesser, J.A. et al. (1997). Environmental Economics and Policy, Addison-Wesley.
12.	Markandya, Anil and J. Richardson (Eds.), The Earthscan Reader in Environmental Economics, Earthscan Publications Ltd., London.
13.	Pearce, D.W. and R. Kerry Turner (1993). Economics of Natural Resources and the Environment, The Johns Hopkins University Press, Baltimore, USA. Singh, Katar (1994). Managing Common Pool Resources: Principles and Case Studies, Oxford University Press.
14.	Tietenberg, Tom (2001). Environmental Economics and Policy, Addison-Wesley.



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B.A. (Economics) Semester - VII

Course Code	UA07HMIECO02	Title of the Course	Ethical Research Practices
Total Credits of the Course	2	Hours per Week	2
Course Objectives:	1. To sensitize the learners towards ethical practices of undertaking research 2. To demonstrate ethical practices in publications 3. To identify and categorically avoid unethical practices in research		

Course Content		
Unit	Description	Weightage (%)
1.	Ethical Research caution during data collection 1.1 Importance of research ethics and impact of failure on stakeholders (through policies and recommendations) 1.2 Not indulging in fabrication of data 1.3 Not indulging in selective reporting of data 1.4 Not indulging in data mining without disclosure 1.5 Informed consent before data collection 1.6 Anonymization for confidentiality and identity protection 1.7 Protection of vulnerable respondents	25%
2.	Post fieldwork responsibilities: 2.1 Ghost authorship, honorary authorship, authorship sequence ethics 2.2 Citation ethics and avoiding plagiarism, 2.3 APA referencing 2.4 Legal implications of violation of plagiarism in India 2.5 Predatory journals-characteristics, identification, impact of publication on career 2.6 Post study responsibilities (towards stakeholders, reviewers and readers)	25%

Teaching-Learning Methodology	The course would be taught/learned through various means like lectures, discussions, writing assignments, seminars presentations, browsing online- resources relevant to the content, participating in co-curricular, extra- curricular activities and self-learning.
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Evaluation Pattern		
Sr.No.	Details of the Evaluation	Weightage
1.	Internal Written Examination	50%
2.	University Examination	50%



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Course Outcomes: Having completed this course, the learner will be able to

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| 1. | Appreciate and practice ethical research practices |
| 2. | Recognize and avoid unethical research practices |
| 3. | Implement ethical publication research practices |

Suggested References:

- | Sr. No. | |
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| 1. | Oliver, Paul (2010). <i>The Student Guide to Research Ethics</i> , 3rd Edition. Open University Press (UK) |
| 2. | Sieber, J. E. (1982). <i>The ethics of research with human subjects</i> . Springer US (part of the Advances in Experimental Social Processes series) |
| 3. | Wager, Elizabeth and Kleinert, Sabine (2011). <i>Publication ethics</i> . Wiley-Blackwell |

Online resources

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| 1. | 'Ethics in research' as provided by egyankosh for IGNOU.
https://egyankosh.ac.in/bitstream/123456789/90740/3/Unit-11.pdf |
| 2. | 'Ethics in social research' as provided by egyankosh for IGNOU
https://www.egyankosh.ac.in/bitstream/123456789/88598/1/Unit-3.pdf |
| 3. | 'Ethics in research' as provided by egyankosh for IGNOU
https://www.egyankosh.ac.in/bitstream/123456789/76514/1/Unit-8.pdf |
| 4. | In a course Research Methodology a module entitled 'research ethics' is offered in epathshala by MHRD
https://www.youtube.com/watch?v=h7lOJmYcxD8#:~:text=Paper%20:%20RESEARCH%20METHODOLOGY%20Module%20:%20Research%20Ethics.%20e%2DPG%20Pathshala%E2%80%A2945%20views%20%C2%B7%2028:07. |
| 5. | A course on SWAYAM entitled Research ethics and plagiarism
https://onlinecourses.swayam2.ac.in/e-learning/preview/nou26_ge26 |
| 6. | Purdue University – OWL Purdue website presenting elaborately the APA publishing methods
https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/index.html |