



**Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore**  
**Shri Vaishnav Institute of Social Sciences, Humanities and Arts**  
**Choice Based Credit System (CBCS) in Light of NEP-2020**  
**B.A. Economics Honors**  
**Semester VII (2022- 2026)**

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BAHNECO701	CC	Introductory Econometrics	60	20	20	0	0	3	0	0	3

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C – Credit.

\***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives:**

- CEO1:** Introduce fundamental econometric concepts.
- CEO2:** Explain simple and multiple regression models.
- CEO3:** Teach hypothesis testing in econometrics.
- CEO4:** Identify econometric issues like multicollinearity and heteroscedasticity.
- CEO5:** Develop basic data analysis skills.

**Course Outcomes:** Students will be able to:

- CO1:** Define basic econometric concepts.
- CO2:** Apply simple and multiple regression models to real world situations.
- CO3:** Conduct hypothesis testing in regression.
- CO4:** Detect the gaps in data with respect to application of econometric models.
- CO5:** Comprehend the techniques used in autocorrelation.

**Contents:**


**UNIT I: Fundamentals of Econometric Theory**


Introduction to econometrics: Definition, scope, and importance; Review of statistical concepts: Probability distributions, expectation, variance; Hypothesis testing: Null and alternative hypotheses, Type I and Type II errors.

**UNIT II: Simple Linear Regression**

Two-variable regression model: Assumptions and estimation; Ordinary Least Squares (OLS) method: Derivation and properties; Interpretation of regression coefficients

  
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**UNIT III: Multiple Regression Analysis**

Extension to multiple regressors: Assumptions and estimation; Goodness-of-fit measures: R- squared and adjusted R-squared; Hypothesis testing in multiple regression: F-test and t-tests.

**UNIT IV: Violations of Classical Assumptions I**

Multicollinearity: Detection, consequences, and remedies; Heteroscedasticity: Detection methods (e.g., graphical analysis, Breusch-Pagan test); Consequences of heteroscedasticity on OLS estimators


**UNIT V: Violations of Classical Assumptions II**


Autocorrelation: Nature, detection (e.g., Durbin-Watson test), and consequences; Remedial measures for autocorrelation; Model specification errors: Omitted variable bias and inclusion of irrelevant variables

**Suggested Readings:**

1. Gujarati, D.N., & Porter, D.C. (2017). *Basic Econometrics* (5th Edition). McGraw-Hill.
2. Wooldridge, J.M. (2019). *Introductory Econometrics: A Modern Approach* (7th Edition). Cengage Learning.
3. Stock, J.H., & Watson, M.W. (2015). *Introduction to Econometrics* (3rd Edition). Pearson.

  
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BAHNECO702	CC	Indian Economy I	60	20	20	0	0	3	0	0	3

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C – Credit.

**\*Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives:**

CEO1: Provide an overview of India's economic development and challenges.

CEO2: Analyze major economic sectors and their contributions.

CEO3: Explain demographic trends and their impact on economic growth.

CEO4: Examine government policies for development.

CEO5: Explain structural reforms in the Indian economy.

**Course Outcomes:**

Students will be able to:

CO1: Describe India's economic structure and growth trends.

CO2: Assess the role of agriculture, industry, and services in economic development.

CO3: Analyze population trends and human development indicators.

CO4: Evaluate government policies on poverty, unemployment, and inequality.


CO5: Comprehend the impact of economic reforms on different sectors.


**Contents:**

**UNIT I : Introduction to the Indian Economy**

Features of the Indian Economy, Growth Trends in National Income and Per Capita Income, Sectoral Composition of the Indian Economy, Challenges in Economic Development

  
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**UNIT II : Agriculture and Rural Development**

Role of Agriculture in the Indian Economy, Land Reforms and Agricultural Productivity, Green Revolution and its Impact, Rural Credit and NABARD Agricultural Price Policy and Food Security.

**UNIT III: Industrial and Service Sectors**

Role and Growth of Industries in India, Public and Private Sector industries, Industrial Policies and Liberalization, Growth of the Service Sector and its Impact

**UNIT IV: Population and Human Development**

Demographic Trends in India, Population Growth and its Impact on Economic Development, Human Development Index (HDI) and Social Sector Development Education and Health Policies


**UNIT V: Economic Planning and Reforms**


Evolution of Economic Planning in India, Five-Year Plans and Achievements Economic reforms of 1991, Impact of Globalization on the Indian Economy

**Suggested Readings:**

1. Puri, V, K, & Misra, S, K, (2018) *Indian Economy (35<sup>th</sup> revised edition)*, Himalaya Publishing House, New Delhi.
2. D, Gaurav, & M, Ashwini (2016), *Indian Economy (72<sup>nd</sup> edition)*, S. Chand and Company Limited, New Delhi.

  
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3. Kapila, Uma. (2017), *Indian Economy: Performance and Policy*, Academic Foundation, New Delhi.
4. Kapila, Uma. (2017). *Indian Economic Development since 1947*, Academic Foundation, New Delhi.
5. Jalan, Bimal,(2004). *The Indian Economy: Problems and Prospects*, Penguin Books, India
6. Agrawal, A,N,. (2003). *Indian Economy: Problems of Development and Planning*, New Age International Publishers, New Delhi.

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BAHNECO703	DSE	Digital Economy	60	20	20	0	0	4	0	0	4

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Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives:**

- CEO1: To discover the concept of knowledge dimension of economy
- CEO2: To enable students to estimate the digital aspect of delivery in society.
- CEO3: To visualize the aspect of ICT with economic growth.
- CEO4: To elaborate the concept of E commerce.
- CEO5: To appraise the need for digital economy.

**Course Outcomes:**

Students will be able to:

- CO1: Estimate knowledge-based dimensions of the economy.
- CO2: Comprehend the inevitability of a knowledge-based society.
- CO3: Analyze the interlinkages of ICTs and ICTs enabled functions in Economy.
- CO4: Analyze contribution of E commerce and other components of digital economy.
- CO5: Comprehend the growth and potential of digital economy for India.

**Contents**

**UNIT I: Knowledge Dimensions of Economy**

Role of Information and Knowledge in Society & Economy, Information and Knowledge as Factors of Production, Concept of Knowledge Management, Contemporary Practices in Information and Knowledge Management.

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**UNIT II: Knowledge based Society**

Information and Communication Technology and Development, E- Government, E-Business, Policy issues and national policy and regulatory framework, Infrastructural issues and challenges, Media/Digital convergence, Broadband and IP-enabled services

**UNIT III: ICT and Economic Development**


Economic and Social dimensions of ICTs: ICTs and economic growth interlink ages, ICTs and Development interlink ages, IT enabled business and service delivery models, BPO, BPM, National Skill Development Corporation.


**UNIT IV: E- Commerce**


Topology of e-commerce – B2C, B2B and B2G, Prospects, Issues and challenges, Payment mechanisms, Order fulfillment, Payment gateways. India E-Commerce landscape, issues and challenges

**UNIT V: Landscape of Digital Economy in Indian**

IT policy and strategy, Application of ICTs in public and private sector, Level of e-business related activities, prevailing Regulatory instruments, Opportunities/Constraints/ limitations.

  
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BAHNECO703	DSE	Digital Economy	60	20	20	0	0	4	0	0	4

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**\*Teacher Assessment** shall be based on following components: Quiz/Assignment/

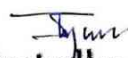
Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Suggested Readings:**

1. Bhattacharya, S.(2022).*Dynamics of Digital Economy*. Mumbai: Dream Book Publishing
2. Overby, H & Audestad J.(2021) *Introduction to Digital Economics*. Second Edition, Springer

  
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BAHNECO704	DSE	Game Theory	60	20	20	0	0	4	0	0	4

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

\*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives:**

CEO1: To explain the basics of game theory.

CEO2: To estimate problems related to strategic games and Nash equilibrium.

CEO3: To illustrate various applications of game theory in economics.

CEO4: To design extensive games.

CEO5: To evaluate auction processes and mechanisms.

**Course Outcomes:**

Students will be able to:

CO1: Define basic concepts related to game theory.

CO2: Interpret strategic games and Nash equilibrium.

CO3: Interpret various economic theories using mixed strategies.


CO4: Develop extensive games, and strategies.


CO5: Compare various auction processes and mechanisms.


**Contents**

**UNIT I: Introduction**

Basic Concepts of Game Theory, Theory of Rational Choice, Interacting Decision Making

  
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**UNIT II: Strategic Games and Nash Equilibrium**

Basics of Strategic Games, Nash Equilibrium: Concepts and Examples, Best Response Functions, Dominated Actions, Symmetric Games and Symmetric Equilibrium

**UNIT III: Mixed Strategy**


Illustrations of Nash Equilibrium: Cournot's Model of Duopoly Market and Bertrand's Model of Duopoly Market, Electoral Competition, Dominated Actions, Formation of Player's Beliefs


**UNIT IV: Extensive Games**


Introduction to Extensive Games, Strategies and Outcomes, Sub-Game Perfect Nash Equilibrium, Backward Induction

**UNIT V: Auction and Mechanism Design**

Efficient Mechanism: Vickrey-Clarke-Groves Auction, Dynamic Spectrum Auction in Cognitive Radio Networks, Mechanisms in Economics

  
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BAHNECO704	DSE	Game Theory	60	20	20	0	0	4	0	0	4


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**\*Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Suggested Readings:**

1. Osborne, M. J. (2004). *An Introduction to Game Theory*. Oxford University Press
2. Mas-Colell, and Whinston (1995). *Green Microeconomic Theory*. Oxford University Press
3. Gibbons, R. A. (1992). *Primer in Game Theory*. Pearson Education

  
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BAHNECO705	DSE	Urban Economics	60	20	20	0	0	4	0	0	4

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

**\*Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives:**

**CEO1:** To discuss the concepts, scope and nature of urban economics.

**CEO2:** To classify the structure and models of urban growth.

**CEO3:** To develop an understanding of land use planning in India.

**CEO4:** To identify various problems and policies of resources and urbanization.

**CEO5:** To relate environmental problems with urbanization.

**Course Outcomes:**

Students will be able to:

**CO1:** Outline the nature and scope of urban economics.

**CO2:** Suggest the solutions to the problems of urban growth.

**CO3:** Present the contemporary issues of land use planning in India.

**CO4:** Distinguish various problems and policies of resources and urbanization.


**CO5:** Test for the impact of changes in environment due to urbanization.


**Contents**

**UNIT I: Introduction to Urban Economics**

Introduction to Urban Economics - Scope and Dimensions; The Urban Economy and Development Strategy.

  
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BAHNECO705	DSE	Urban Economics	60	20	20	0	0	4	0	0	4

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**UNIT II: The Economics of Urban Growth**

The Economics of Urban Growth - Models of Urban Growth - The Frontiers of Urban Growth.

**UNIT III: Land Use Planning**

Land Use Planning- General Urban Land-Use Models- The Determinants of Specific Land Uses, Changes in Land Uses- Land Use Policy- Land Reservation- Public Amenities

**UNIT IV: Resources and Urbanization**


Resource problems in urbanization - transportation, waste management and water - traffic Congestion - Traffic management and Policies- Public transport Surveillances- Route Mapping Signal system


**UNIT V: The Urban Environment**

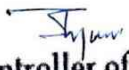
Environmental Pollution- Types of pollution and Management- Types of wastes: degradable and non-degradable - Garbage, Plastic, Biomedical Waste Management – Sustainable development Policies.

**Suggested Readings:**

1. Hartwick, John M. (2015) *Urban Economics*, Routledge; 1st edition
2. O'Sullivan, Arthur (2012) *Urban economics*, 8th Ed., McGraw-Hill/Irwin
3. Rakesh A Mohan (1978) *Urban Economic and Planning Models Assessing the Potential for Cities in Developing Countries*, OCP- 25, World Bank.

  
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BAHN706	Minor	Research Methods in Behavioral Sciences with SPSS	60	20	20	30	20	2	1	2	4

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**Course Educational Objectives:**

- CEO1: To choose a research problem in behavioral science
- CEO2: To enable students to frame hypothesis.
- CEO3: To operate various types of data with SPSS.
- CEO4: To analyze parametric tests with SPSS.
- CEO5: To analyze non parametric test with SPSS.

**Course Outcomes:**


Students will be able to:

- CO1: Formulate a research problem in the given context.
- CO2: Evaluate quality research work
- CO3: Measure different types of variables using SPSS
- CO4: Experiment with parametric test using SPSS.
- CO5: Experiment with non-parametric test using SPSS


**Contents**

**UNIT I : Defining the Research Problem**

Formulating a Research Problem, Selecting the Problem, Necessity of Defining the Problem, Steps in formulating a research problem. Ethical Considerations at Every Step (Including IRB Perspectives and Research Ethics)

  
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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BAHN706	Minor	Research Methods in Behavioral Sciences with SPSS	60	20	20	30	20	2	1	2	4

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C – Credit.

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**UNIT II : Hypothesis and Research Design**

Hypothesis- Concept, Function, Types and Testing, Research Design, Functions of a Research Design, Quantitative and Qualitative Research, Features of a Good Design. Ethical Issues in Research Design, Misuse of AI in Research, and Data Manipulation Concerns

**UNIT III: Data Entry and Tabular Analysis**

Coding and Decoding of Data, Types of Data and Data entry, Variable Entry, Understanding the Scales of Variable: Ratio, Interval, Ordinal and Nominal. Converting Data into Cross Tabulation of 2X2, 2X3, 3X3, 3X2 etc. Ensuring Data Integrity and Ethical Considerations in Data Handling

**UNIT IV: Parametric Test**


Two-Sample t-Test, Paired t-Test , Analysis of Variance (ANOVA), Pearson Coefficient of Correlation, Regression Analysis with SPSS. Ethical Aspects of Statistical Analysis and Reporting

**UNIT V: Non-Parametric Test**

Chi Square Test, Median, Goodness of Fit, Significance Level, Kruskal Wallis test, Mann Whitney U test, Wilcoxon Signed – Rank test. Training on Plagiarism Detection and Responsible Research Practices

  
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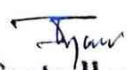
**Teacher Assessment** shall be based on following components: Quiz/Assignment/  
Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Suggested Readings:**

1. Chawla, Deepak; Sondhi, Neena(2015).*Research Methodology–Concept and Cases*. Noida : Vikas Publishing House Pvt. Limited.
2. John, W.C.(2018). *Research Design*. New Delhi : SAGE Publication
3. Kothari, C.R.(2018). *Research Methodology*. New Delhi: SAGE Publication
4. Kumar, Ranjit(2016). *Research Methodology*. New Delhi: SAGE Publication
5. Kumar, Ranjit(2014). *Research Methodology- A step by step Guide for Beginners*. New Delhi : SAGE Publication

  
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BAHN707	Project	Dissertation I	-	-	-	60	40	0	2	8	6

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**Course Educational Objectives:**

**CEO1:** Equip students with the ability to conduct systematic research using qualitative and quantitative methodologies.

**CEO2:** Foster problem-solving skills through extensive literature review.

**CEO3:** Encourage integration of knowledge across various domains to develop research synopsis.

**CEO4:** Apply theoretical concepts to real-world problems through behavioral research

**CEO5:** To prepare a research synopsis.

**Course Outcome:**

Students will able to

**CO1:** Categories among various types of literature reviews (narrative, systematic, meta-analysis, etc.).

**CO2:** Develop teamwork, leadership, and collaborative research skills for effective research proposal.

**CO3:** Instill a sense of research ethics, plagiarism awareness, and responsibility towards societal development.

**CO4:** Comprehend, evaluate and compare different studies to identify gaps and trends in research.

**CO5:** Summarize and synthesize key findings while maintaining academic integrity.

**CO6:** Build a strong foundation for pursuing higher education in research studies.

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As part of the partial fulfilment of the Honors/Research Degree, students are required to submit Dissertation I, which consists of two key components:


1. Extensive Literature Review
2. Preparation of a Research Proposal (Synopsis)


**Key Guidelines:**

1. Assignment of Supervisor: Each student will be assigned to a faculty supervisor who will guide them throughout the research process.
2. Regular Tutorials & Consultation: Students must attend regular tutorial sessions with their supervisors to refine their research direction.
3. Synopsis Submission: Each student must submit a research synopsis outlining their proposed project for Dissertation II (VIII Semester).
4. Internal Panel Presentation: Students must present their literature review findings before an internal review panel.
5. Credit Allocation: The literature review presentation will carry three (3) credits as part of Dissertation I.
6. Dissertation I Evaluation: Total Marks: 100 where, Internal Evaluation: 40 Marks and External Evaluation: 60 Marks

  
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7. A panel of external and internal examiners will jointly award both components of marks.
8. Joint Evaluation: Both internal and external examiners will assess the dissertation and assign marks.
9. Synopsis Approval: Successful completion of the literature review is a prerequisite for synopsis submission.
10. Each student must submit three hard-bound copies of their research proposal upon completion.
11. Mandatory Ethical Review: Each research proposal must include a section on ethical considerations related to the topic, incorporating Institutional Review Board (IRB) perspectives.
12. Local IRB Review: A separate local IRB will review research proposals to ensure compliance with ethical research practices.
13. Ethical Implementation: Students must integrate ethical principles in study design, data collection, and participant protection.
14. University-Mandated Plagiarism Check: A plagiarism check is compulsory, and the research synopsis will not be accepted without it.

  
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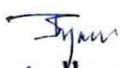
15. Permissible Plagiarism Limit: The maximum allowable plagiarism percentage is below 10%. The presentation of the literature review Infront of the internal panel will earn three credits for the Dissertation I.

**Suggested Readings:**

1. Sieger E Joan(1982), *The Ethics of Social Research: Fieldwork, Regulation, and Publication*, Springer, Delhi Book Store.
2. [https://www.ugc.gov.in/pdfnews/7771545\\_academic-integrity-Regulation2018.pdf](https://www.ugc.gov.in/pdfnews/7771545_academic-integrity-Regulation2018.pdf), Accessed on April 1, 2025, at 4:25 PM

  
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