M. C. E. Society's

Abeda Inamdar Senior College

Of Arts, Science and Commerce (Autonomous), Camp, Pune-1

Affiliated to Savitribai Phule Pune University

NAAC accredited 'A' Grade

Faculty of Humanities

Syllabus as Per NEP 2020 Guidelines

T.Y.B.A. Economics

Semester V & VI

Choice Based Credit System 2023 Pattern

Based on NEP 2020 Guidelines

w.e.f. Academic Year 2025-26

Overview of Semester V & VI Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2024-25

Based on NEP 2020 Guidelines

	Semester V				Semester VI			
Nature of Subject	**Course Code**	**Title of the Paper**	**Credits**	**No. of Papers**	**Course Code**	**Title of the Paper**	**Credits**	**No. of Papers**
Major 1	23ABEC51MM	Indian Economic Development - I	**4**	**3**	23ABEC61MM	Indian Economic Development - II	**4**	**3**
Major 2	23ABEC52MM	Financial Economics - I	**4**		23ABEC62MM	Financial Economics - II	**4**	
Major 3	23ABEC53MM	Statistical Methods	**2**		23ABEC63MM	History of Indian Economic Thought (IKS)	**2**	
Major Elective	23ABEC51MEA	Industrial Economics	**4**	**1**	23ABEC61MEA	Agriculture Economics	**4**	**1**
	23ABEC51MEB	Mathematical Economics			23ABEC61MEB	Econometrics		
VSC	23ABEC51VS	Basics of Research Methodology	**2**	**1**	-	-	**-**	
FP / OJT	23ABEC51FP	Field Project	**2**	**1**	23ABEC61OJ	On Job Training	**4**	**1**
Minor	23ABEC51MN	Financial System - I	**4**	**1**	23ABEC61MN	Financial System - II	**4**	**1**
	Total Papers			**7**	**Total Papers**			**6**

VSC: Vocational Skill Course

Major Elective: Choice of any one paper

Syllabus for T.Y.B.A. - Economics

NEP 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Indian Economic Development - I		**Semester: V**
Course Code: 23ABEC51MM		**No. of Credits: 04**
Nature of Course: Major Mandatory		**Total Teaching Hours: 60**

Course Objectives	
1.	To gain a comprehensive understanding of economic development.
2.	To explore socio-economic challenges and their implications for development.
3.	To highlight the role of human resources, vocational training in economic development and growth.
4.	To familiarize students with global indices for measuring development.

Course Outcomes	
1.	Students will demonstrate an understanding of economic growth and economic development.
2.	Students will analyze critical socio-economic issues and their impact on economic development.
3.	Students will understand the significance of human resources, human capital, and vocational training in promoting economic growth and development.
4.	Students will evaluate countries' socio-economic progress using indices like HDI.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Economic Growth and Development**	**10**
	1. Economic Growth: Meaning, Definition and Indicators 2. Economic Development: Meaning, Indicators and Importance 3. Factors Influencing Economic Growth and Development 4. Difference between Growth and Development	
II	**Socio-Economic Challenges and Development Constraints**	**17**
	1. **Poverty and Inequality:** Absolute and Relative Poverty , Causes and Measures of poverty and inequality 2. **Unemployment:** Types, Causes and Impact 3. **Infrastructure:** Types and Importance of Infrastructure in Economic growth and Development 4. **Urbanization:** Meaning, Push and Pull Factors 5. **Development Constraint:** Capital, Technology Geographical, Socio-Culture, Political, and Human Resource Constraint.	
III	**Developed and Developing Country**	**15**
	1. Concept of Developed Countries and its Characteristics 2. Developing Countries: Economic, Demographic, Technological, Social and Political characteristics 3. Underdeveloped countries and its characteristics 4. Emerging Economies: Features, India as an emerging economy –Role and Challenges	
IV	**Human Resources and Economic Development**	**18**
	1. **Human Resources:** Concept and difference Between Human Capital and Physical Capital 2. **Human Resource Development (HRD):** Concept, Importance, challenges and Role in economic growth and development 3. Importance and Initiative of Skill Development and Vocational Training in India 4. **Indices:** i. Human Development Index, Inequality-adjusted Human Development Index	

	(IHDI), Planetary pressures-adjusted Human Development Index and India ii. Concepts of Different Indices in Quality of Life and Status of India: Gender Development Index and Gender Inequality Index, Multidimensional Poverty Index and Global Hunger Index iii. Analysis of Human Development Report	

Suggested Readings	
1.	Todaro, M. P., & Smith, S. C. (2020). Economic Development (13th ed.)
2.	Thirlwall, A. P. (2014). Growth and Development: *With Special Reference to Developing Economies* (9th ed.). Palgrave Macmillan.
3.	Agarwal, A. N. (2021). Indian Economy: *Problems of Development and Planning* (44th ed.). New Age International Publishers
4.	Ray, D. (1998). ***Development Economics***. Princeton University Press
5.	Jhingan M.L. (2019) *Economics of Development and Planning*. Vrinda Publication (P) Ltd
6.	Ragnar Nurkse, *Problem of Capital Formation in Underdeveloped Countries*
7.	Sen Amartya (1970) Growth Economics, Penguin
8.	Mishra & Puri, *Development and Planning- Theory and Practice*, Himalaya.
9.	Higgins, Benjamin. (1959) *Economic Development*, W.W.Norton , New York 11
10.	Todaro M.P. (1996) *Economic Development* (6th Edition) Longman, London.

Recommended Journals, Reports and Websites:

- The Journal of Economic Growth: https://link.springer.com/journal/10887
- World Development: https://www.sciencedirect.com/journal/world-development
- Economic Development and Cultural Change: https://www.journals.uchicago.edu/toc/edcc/current
- Economic and Political Weekly (EPW); https://www.epw.in/
- United Nations Development Programme (UNDP). (2023). *Human Development Report*. https://hdr.undp.org/
- World Bank. (2022). World Development Report. https://www.worldbank.org/en/publication/wdr/wdr-archive
- Ministry of Finance, Government of India. (2023). ***Economic Survey of India***

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Financial Economics - I		**Semester: V**
Course Code: 23ABEC52MM		**No. of Credits: 04**
Nature of Course: Major Mandatory		**Total Teaching Hours: 60**

Course Objectives	
1.	To introduce students to the fundamental principles of financial economics, including risk, return, and time value of money.
2.	To provide an understanding of the structure and functioning of financial markets and institutions in India.
3.	To equip students with the basics of investment analysis, portfolio management, and derivative instruments.
4.	To build a foundation for analysing financial instruments and their applications in risk management.

Course Outcomes	
1.	Gain conceptual clarity on financial markets, financial instruments, and their economic significance.
2.	Develop basic skills in investment analysis and portfolio management.
3.	Ability to explain the principles of financial derivatives and their role in risk mitigation.
4.	Develop a foundation for further studies in corporate finance and advanced financial topics.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Introduction to Financial Economics**	**10**
	1. Definition and Scope of financial economics 2. Role and Significance of financial economics 3. Distinction between financial economics and traditional economics	
II	**Financial Markets and Institutions**	**16**
	1. Structure and functions of Money Market and Capital Market 2. Role and types of financial institutions: Banks, non-banking financial companies (NBFCs), insurance companies 3. Regulatory framework in India: RBI, SEBI, and IRDAI	
III	**Investment Analysis and Portfolio Management**	**18**
	1. Objectives and constraints in investment decision-making 2. Time value of money: concepts of compounding and discounting 3. Risk and return: Basic principles and trade-offs 4. Introduction to portfolio theory: 5. Asset pricing models: Capital Asset Pricing Model (CAPM) and Arbitrage Pricing Theory (APT) 6. Efficient Market Hypothesis (EMH): Meaning and Forms	
IV	**Financial Derivatives**	**16**
	1. Introduction to derivatives: Definition, types, and economic functions 2. Futures and forwards: Meaning and features, pricing, and applications in risk management 3. Options: Meaning, Types (call and put options), valuation basics, and basic strategies 4. Swaps: Interest rate and currency swaps	

Suggested Readings	
1.	Chandra, P. (2021). *Financial Management: Theory and Practice* (10th ed.). McGraw-Hill Education.
2.	Khan, M. Y., & Jain, P. K. (2018). *Financial Management: Text, Problems, and Cases* (8th ed.). McGraw-Hill Education.
3.	Bodie, Z., Kane, A., & Marcus, A. J. (2014). *Investments* (10th ed.). McGraw-Hill Education.
4.	Hull, J. C. (2017). *Options, Futures, and Other Derivatives* (9th ed.). Pearson.
5.	Mishkin, F. S. (2018). *The Economics of Money, Banking, and Financial Markets* (12th ed.). Pearson.
6.	Ross, S. A., Westerfield, R. W., & Jaffe, J. (2016). *Corporate Finance* (11th ed.). McGraw-Hill Education.
7.	Madura, J. (2018). *International Financial Management* (13th ed.). Cengage Learning.
8.	LeRoy, S. F., & Werner, J. (2014). *Principles of Financial Economics* (2nd ed.). Cambridge University Press.
9.	Shiller, R. J. (2015). *Irrational Exuberance* (3rd ed.). Princeton University Press.
10.	Chakravarty, S. R. (2014). *An Outline of Financial Economics*. Anthem Press.
11.	Yoganandham, G. (2021). *Financial Economics*. New Century Publications.
12.	Rajan, R. G. (2010). *Fault Lines: How Hidden Fractures Still Threaten the World Economy*. Princeton University Press.
13.	Rakshit, M. (2010). *Money and Finance in the Indian Economy*. Oxford University Press.
14.	Nandi, S. (2023). *Economics of the International Financial System*. Routledge.

Web References:

1. Investopedia - Definitions and detailed explanations of financial concepts like derivatives, portfolio management, and financial markets.
   https://www.investopedia.com
2. Reserve Bank of India (RBI) - Publications and updates on Indian financial markets and regulations.
   https://www.rbi.org.in

3. NSE India Learning Hub - Resources on Indian financial markets, trading, and recent developments.
   https://www.nseindia.com/education
4. Coursera: Financial Markets - A course on financial markets and risk management by Yale University.
   https://www.coursera.org/learn/financial-markets-global
5. Khan Academy: Finance - Free videos on time value of money, risk-return trade-offs, and investments.
   https://www.khanacademy.org/economics-finance-domain/core-finance

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Statistical Methods		**Semester: V**
Course Code: 23ABEC53MM		**No. of Credits: 02**
Nature of Course: Major Mandatory		**Total Teaching Hours: 30**

Course Objectives	
1.	To introduce students to the fundamental concepts, tools, and techniques of statistics and their significance in economic analysis.
2.	To enable students to apply measures of central tendency and dispersion for summarising and interpreting economic data.
3.	To familiarise students with the basic principles of probability, sampling, estimation, and hypothesis testing for making statistical inferences.
4.	To develop students' ability to analyse economic relationships using correlation and regression techniques.

Course Outcomes	
1.	Students will be able to describe the meaning, scope, and importance of statistics in economics and business decision-making.
2.	Students will be able to compute and interpret measures of central tendency and dispersion for various economic datasets.
3.	Students will be able to apply probability rules, sampling methods, and hypothesis testing to real-world economic problems.
4.	Students will be able to interpret and evaluate relationships between economic variables using correlation and regression analysis.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Basics of Statistics**	**10**
	1. Statistics: Meaning and Importance 2. Measures of Central Tendency: Mean Median, Mode**;** uses & application 3. Measures of Dispersion: Range, Variance, Standard Deviation; application in economics. 4. Data Presentation; Tabular and Graphical Representation of Data: Bar Diagram, Pie Chart, and Histogram. Frequency Distribution.	
II	**Probability and Statistical Inference**	**10**
	1. Probability: Basic Terminology: Experiment, Sample Space, Events, Random Variables: Discrete and Continuous 2. Probability Rules: Addition and Multiplication 3. Sampling Techniques: Types of Sampling: probability sampling and non-probability sampling 4. Estimation: Point and Interval Estimation 5. Hypothesis Testing: Null and Alternative Hypotheses	
III	**Correlation and Regression**	**10**
	1. Meaning and Importance of Correlation 2. Types of Correlation: Positive, Negative, and Zero Correlation. 3. Concept of Regression; Difference between Correlation and Regression. 4. Regression Lines and Equation, Properties of Regression Coefficients; OLS methods; Uses in Economics.	

Suggested Readings	
1.	Thukral, J. K. (2010). *Business statistics.* Taxmann Publications.
2.	Gupta, S. P. (2005). *Statistical methods.* S. Chand & Sons.
3.	Nagar, A. L., & Das, R. K. (1983). *Basic statistics.* Oxford University Press.
4.	Webster, A. (1997). *Applied statistics for business and economics: An essential version* (3rd ed.). McGraw-Hill.
5.	Larsen, R. J., & Marx, M. L. *An introduction to mathematical statistics and applications.* Prentice Hall.
6.	Croxton, F. E., Cowden, D. J., & Klein, S. *Applied general statistics.* Prentice Hall.
7.	Goon, A. M., Gupta, M. K., & Dasgupta, B. *Fundamentals of statistics* (Vols. I & II). World Press.
8.	Gupta, S. C., & Kapoor, V. K. (1993). *Fundamentals of applied statistics.* S. Chand & Sons.

Web References:

1. www.statsoft.com,
2. www.statcounter.com,
3. www.meandeviation.com
4. www.math.about.com,
5. http://www.cne.gm

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Industrial Economics		**Semester: V**
Course Code: 23ABEC51MEA		**No. of Credits: 04**
Nature of Course: Major Elective		**Total Teaching Hours: 60**

Course Objectives	
1.	To provide basic understanding of Industry, Industrial sector and growth and its relation to various economic issues and challenges.
2.	To demonstrate the practical and the applied aspects of Industrial economics and the study of Industry
3.	To impart students the knowledge about the theory of industriallocation, industrial productivity, efficiency and profitability.
4.	To study the important issues of regional industrial imbalance in India

Course Outcome	
1.	Ability to develop, demonstrate and examine various topics under IndustrialEconomics.
2.	Ability to evaluate and examine subject areas in economics bringing out therelation to industry and industrial development.
3.	Students will get to know about the factors of industrial loaction and their interrelation
4.	Students will be capable of understanding the policies of industrial development and the challeges of indurtrial growth in India.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Introduction**	**12**
	1. Industrial Economics – Meaning and Definition 2. Scope of Industrial Economics 3. Importance of Industrial Economics 4. Classification of Industries	
II	**Theories of Industrial Location**	**16**
	1. General Determinants of Industrial Location 2. Theory of Industrial Location -Alfred Weber 3. Policy of Industrial Location in India 4. Need for Balanced Regional Development	
III	**Industrial Productivity and Growth**	**16**
	1. Industrial Productivity - Norms and Measurement 2. Factors affecting Productivity and measures to improve Productivity 3. Public Enterprises - Productivity and Performance 4. Skill Development and Industrial Productivity 5. Industrial Pattern and Growth in India	
IV	**Industrial Policies In India**	**16**
	1. Recent Industrial Policies in India 2. Developments in Industrial Policy: Special Economic Zones, 'Make in India', Public Private Partnership 3. Changing Role and Performance of Public and Private Sector in India 4. New definition of MSME: change and its implications 5. Future ready workforce: issues and challenges	

Suggested Readings	
1.	Barthwal, R. R. (latest edition). *Industrial economics: An introductory textbook.* New Age International.
2.	Das, K. (2011). *Micro and small enterprises in India: The era of reforms.* Routledge.
3.	Flanagan, R. J. (latest edition). *Globalization and labor conditions: Working conditions and worker rights in a global economy.* Oxford University Press.
4.	Hajela, P. D. (latest edition). *Labour restructuring in India: A critique of the new economic policies.* Commonwealth Publishers (India).
5.	Kar, S., & Datta, D. (latest edition). *Industrial and labor economics: Issues in developing and transition countries.* Springer.
6.	Martin, S. (latest edition). *Industrial economics: Economic analysis and public policy.* Macmillan College.
7.	Mohan, S. (latest edition). *Indian policy and development.* McGraw-Hill Education.
8.	Sauvant, K. P., Pradhan, J. P., Chatterjee, A., & Harley, B. (latest edition). *The rise of Indian multinationals: Perspectives on Indian outward foreign direct investment.* Palgrave Macmillan.
9.	S. C., S. (7th ed.). *Industrial relations and labour laws.* Vikas Publishing House.
10.	Seth, R. (latest edition). *Industrial economics.* Ane Books Pvt. Ltd.

Recommended Journals, Reports and Websites:

1. Economic Survey of India (latest)
2. Economic and Political Weekly (EPW)
3. Applied Economics- taylor & Francis Online
4. International Journal of Economics and Business research- Inderscience
5. The Journal of Industrial Economics- Wiley
6. The Journal of Industrial Economics- Scimago
7. Ministry of Commerce and Industry: https://commerce.gov.in/
8. Ministry of Micro, Small and Medium Enterprises: https://msme.gov.in/

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Mathematical Economics		**Semester: V**
Course Code: 23ABEC51MEB		**No. of Credits: 04**
Nature of Course: Major Elective		**Total Teaching Hours: 60**

Course Objectives	
1.	To introduce students to the basic mathematical tools and concepts essential for economic analysis.
2.	To develop the ability to apply mathematical techniques such as functions, limits, and continuity to economic problems.
3.	To enable students to understand the use of differential and integral calculus in analysing marginal concepts, optimisation, and economic relationships.
4.	To familiarise students with the concept and application of matrices in solving economic equations and models.

Course Outcomes	
1.	Students will be able to explain the fundamental mathematical concepts such as sets, numbers, and functions, and their relevance in economics.
2.	Students will be able to apply the concepts of limits and continuity to analyse economic functions and their behaviour.
3.	Students will be able to use differential calculus to determine marginal values, elasticity, and conditions for optimisation in economic models.
4.	Students will be able to apply integral calculus to measure consumer and producer surplus and to interpret areas under economic curves.
5.	Students will be able to employ matrices and determinants to represent and solve linear economic relationships and problems.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Basic Concepts of Mathematical Economics**	**14**
	1. Set: Meaning, concept, and types of sets. 2. Number: Types of numbers and their uses. 3. Function: Concept and types of functions; applications in economics. 4. Graphs and their applications in economics.	
II	**Limits and Continuity**	**15**
	1. Limits: Concept, properties, and basic laws. 2. Continuity: Concept and properties. 3. Continuity at a point and over an interval. 4. Applications of limits and continuity functions in economics.	
III	**Differential Calculus**	**15**
	1. The derivative: Concept; first and second-order derivatives. 2. Rules of differentiation: Simple rule, product rule, quotient rule, and chain rule. 3. Economic applications: Marginal cost (MC), marginal revenue (MR), profit maximisation, elasticity of demand and supply, and optimisation of functions (maxima and minima) with economic relevance. 4. Partial derivatives and total derivatives: Applications in economics.	
IV	**Integral Calculus and Matrices**	**16**
	1. Indefinite integral: Basic rules of integration. 2. Definite integral: Properties and application in finding areas under a curve. 3. Economic applications: Consumers’ surplus and producers’ surplus. 4. Matrices: Concept, types of matrices, and determinants. 5. Applications of matrices in solving economic problems.	

Suggested Readings	
1.	Simon, C. P., & Blume, L. (2007). *Mathematics for economists.* Viva Books Pvt. Ltd.
2.	Chiang, A. C., & Wainwright, K. (2005). *Fundamental methods of mathematical economics* (4th ed.). McGraw-Hill.
3.	Hoy, M., Livernois, J., McKenna, C., Rees, R., & Stengos, T. (2001). *Mathematics for economics* (2nd ed.). Prentice Hall India.
4.	Dowling, E. T. (1992). *Schaum's outline of theory and problems of introduction to mathematical economics* (3rd ed.). McGraw-Hill.
5.	Chiang, A. C., & Wainwright, K. (2005). *Mathematical economics* (4th ed.). McGraw-Hill.

Web References:

1. http://ndl.ethernet.edu.et/bitstream/123456789/7621/1/189%20.%20Rakesh_V._Vohra.pdf
2. https://economics.stackexchange.com/questions/37560/what-are-good-advanced-textbooks-to-learn-mathematics-for-economist
3. http://dx.doi.org/10.3390/math8050660.
4. https://editorialexpress.com/jrust/econ425/readings/Alpha_chiang_4th_edition.pdf
5. https://www.sfu.ca/~baa7/archives/econ331/exam/2008-01ans_final.pdf

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Basics of Research Methodology		**Semester: V**
Course Code: 23ABEC51VS		**No. of Credits: 02**
Nature of Course: VSC		**Total Teaching Hours: 30**

Course Objectives	
1.	To develop the understanding of the basic concept of research.
2.	To demonstrate the practical and the applied aspects of research in relation to Economics.
3.	To develop the understanding of various research designs.
4.	To identify various important concepts of Research.

Course Outcomes	
1.	Ability to understand the concept of reseach and importance of Economics Research
2.	Students will learn the basics of research and research designs.
3.	Ability to develop, demonstrate and examine topics under Economics to pursue Research.
4.	Ability to evaluate and examine subject areas in economics and explore possibilities of research.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Introduction of Research**	**10**
	1. Meaning and Definition of Research 2. Types of Research i. Fundamental Research ii. Applied Research iii. Action Research 3. Importance of Economics Research	
II	**Research Design**	**10**
	1. Meaning of Research Design 2. Need of Research Design 3. Features of a Good Design 4. Types of Research Design i. Exploratory Design ii. Descriptive Design iii. Experimental Design	
III	**Research Basics**	**10**
	1. Formulation of Question / Research Problem. 2. Necessity of Defining the Problem 3. Review of Literature 4. Bibliography and References i. Reference management tool: Zotero	
	Skill Development Activities	
	Continuous Assessment - (C. A.): To complete any three Skill Development Activities from the prescribed syllabus, each activity for 05 marks (15 Marks)	

Suggested Readings	
1.	Arora, P. (2007). *Comprehensive Statistical Methods.* S. Chand Publishing.
2.	Bethlehem, J. (2009). *Applied Survey Methods: A Statistical Perspective.* John Wiley & Sons.
3.	Cochran, W. G. (2007). *Sampling Techniques* (3rd ed.). John Wiley & Sons.
4.	Gupta, S. P. (1976). *Statistical Methods.* Sultan Chand and Sons.
5.	Karmel, P., & Polasek, M. (2006). *Applied Statistics for Economists.* Pitman.
6.	Kothari, C. R. (2004). *Research Methodology: Methods and Techniques.* New Age International.
7.	Kumar, R. (2010). *Research Methodology: A Step-by-Step Guide for Beginners.* SAGE.
8.	Panneerselvam, R. (2014). *Research Methodology.* PHI Learning Pvt. Ltd.
9.	Spiegel. (2003). *Theory and Problems of Probability and Statistics (Schaum's Outline Series).* Tata McGraw-Hill Education.

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Field Project		**Semester: V**
Course Code: 23ABEC51FP		**No. of Credits: 02**
Nature of Course: Field Project		**Total Contact Hours: 60**

Course Objectives	
1.	To acquaint the students with the discipline of Economics and how it works in the real world.
2.	To discuss various analytical tools to comprehend and analyse the market.
3.	The course aims to equip students with the understanding of the latest developments in the field of economics.

Course Outcome	
1.	Ability to analyze and evaluate the subject with reference to various aspects of real market economics.
2.	Ability to develop an understanding of the economics and various analytical tools to comprehend market dynamics.
3.	To understand the key issues of market analysis with reference to demand and supply forces.
4.	To understand the analytical framework adapted by the discipline of Economics.
5.	To understand different techniques of valuation and cost benefit analysis that goes into decision making for a business.

Syllabus

Sr. No.	Field Project
1.	Banking, Financial Services, and Insurance (BFSI)
2.	Research and Consultancy Firm
3.	Small and Medium Enterprises (SME)
4.	Education Sector
5.	Data Analysis Firm
6.	Credit Analysis Firm
7.	CA firm
8.	Firms not included in the above category

Field Project

First of all, select a firm from the above broad areas in consultation with the internal guide. After finalising the firm, select a topic of your interest by consulting the company guide and the guide from the college.

Guidelines

Economists focus on studying the demand and supply of goods and services in an economy by gathering relevant data, researching trends, and analysing them. They apply both qualitative and quantitative economic analysis to diverse topics, including tax rates, business cycles, exchange rates, international trade, economic development, health/energy statistics, transportation, etc.

Economists are highly skilled in data sampling and survey techniques to collect data. Using these techniques, they evaluate both present and historical trends to make forecasts, which is pivotal to businesses and organisations. Economists who work for large corporations collaborate with senior executives (managers and decision-makers) to study industry data to understand how the present economy will affect the company's operations.

Field reports require the researcher to combine theory and analytical tools learnt in the classroom. Students have to perform a range of duties such as gathering data, forecasting market trends, studying economic and statistical data, etc. Researchers analyse data, conduct research on economic issues, and prepare detailed reports highlighting the findings. They also study the socio-economic impact of new public policies like taxes, regulations, etc.

1. **Introduction:** The report of FP must have an introduction including the specific objective, statement of the problem, and methods of data collection and data analysis. Also, it should have the theoretical background of the study.
2. **Interpretation and Analysis:** Write the analysis and interpretations of observations and data analysis within the larger context of the theories and issues described in the introduction.
3. **Conclusion and Recommendations:** The conclusion should briefly recap the entire study, reiterating the importance or significance of your observations. The conclusion should not be more than two or three paragraphs.
4. **Appendix:** Appendix includes figures, tables, charts, graphs of results, statistics, pictures, maps, drawings, or, if applicable, transcripts of interviews.
5. **References:** List all sources that were consulted and obtained information from while writing the report.

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Financial System - I		**Semester: V**
Course Code: 23ABEC51MN		**No. of Credits: 04**
Nature of Course: Minor		**Total Teaching Hours: 60**

Course Objectives	
1.	To provide a comprehensive understanding of the structure, components, and role of the Indian financial system in the economy.
2.	To familiarize students with the functioning of financial markets, financial institutions, and banking systems in India.
3.	To analyze the classification, features, and instruments of the Indian money, capital, and foreign exchange markets.
4.	To evaluate the significance of non-banking financial intermediaries and key financial institutions like NSE, BSE, NABARD, and SIDBI.

Course Outcomes	
1.	Ability to explain the meaning, nature, and importance of the Indian financial system and its components.
2.	Understand the organization, functions, and challenges faced by commercial banks, regional rural banks, and cooperative banks.
3.	Analyze the classification of financial markets and assess the role of money, capital, and foreign exchange markets in India.
4.	Evaluate the roles and functions of key financial institutions and intermediaries in the Indian financial ecosystem.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Introduction to Indian Financial System**	**10**
	1. Meaning and Nature of Indian Financial System 2. Role and Importance of Indian Financial System 3. Structure and components of Indian Financial System	
II	**Banking in India**	**14**
	1. Commercial Banks (Public Sector Banks, Private Sector Banks, Foreign Banks): organization and functions 2. Regional Rural Banks and Co-operative Banks: evolution, organization, loan management, functions, problems and measures to solve the problems	
III	**Financial Markets in India**	**16**
	1. Classification of Financial Markets 2. Indian Money Market: Features, Functions and Instruments 3. Indian Capital Market: Features, Functions and Instruments 4. Foreign Exchange Market: Role and Importance	
IV	**Important Financial Institutions**	**20**
	1. Meaning and Importance of Financial Institutions 2. Stock Markets: NSE and BSE: Meaning and Functions 3. Non - Banking Financial Intermediaries: Meaning and Functions 4. Role and Functions of Financial Institutions in India with reference to UTI, LIC, GIC 5. Refinance Facilities to Banks: NABARD and SIDBI	

Suggested Readings	
1.	Khan, M. Y. (2019). *Indian Financial System* (11th ed.). McGraw-Hill Education.
2.	Pathak, B. V. (2014). *Indian Financial System*. Pearson Education India.
3.	Sarkhel, J., & Salim, S. (2018). *Indian Financial System*. McGraw-Hill Education.
4.	Bhole, L. M. (2004). *Financial Institutions and Markets: Structure, Growth and Innovations* (4th ed.). Tata McGraw-Hill Education.
5.	Shah, A., Thomas, S., & Gorham, M. (2008). *Indian Financial Markets: An Insider's Guide to How the Markets Work*. Elsevier.
6.	Parameswaran, R. (2001). *Indian Banking*. S. Chand Publishing.
7.	Akhan, J. A. (2010). *Non-Banking Financial Companies (NBFCs) in India: Functioning and Reforms*. Elsevier.
8.	Chawla, A. S., Uppal, K. K., & Malhotra, K. (1988). *Indian Banking Towards 21st Century*.

Web References:

1. Investopedia - Definitions and detailed explanations of financial concepts like derivatives, portfolio management, and financial markets.
   https://www.investopedia.com
2. Reserve Bank of India (RBI) - Publications and updates on Indian financial markets and regulations.
   https://www.rbi.org.in
3. NSE India Learning Hub - Resources on Indian financial markets, trading, and recent developments.
   https://www.nseindia.com/education
4. Coursera: Financial Markets - A course on financial markets and risk management by Yale University.
   https://www.coursera.org/learn/financial-markets-global
5. Khan Academy: Finance - Free videos on time value of money, risk-return trade-offs, and investments.
   https://www.khanacademy.org/economics-finance-domain/core-finance

M. C. E. Society's

Abeda Inamdar Senior College

Of Arts, Science and Commerce (Autonomous), Camp, Pune-1

Affiliated to Savitribai Phule Pune University

NAAC accredited 'A' Grade

Faculty of Humanities

Syllabus as Per NEP 2020 Guidelines

T.Y.B.A. Economics

Semester V & VI

Choice Based Credit System 2023 Pattern

Based on NEP 2020 Guidelines

w.e.f. Academic Year 2025-26

Overview of Semester V & VI Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2024-25

Based on NEP 2020 Guidelines

	Semester V				Semester VI			
Nature of Subject	**Course Code**	**Title of the Paper**	**Credits**	**No. of Papers**	**Course Code**	**Title of the Paper**	**Credits**	**No. of Papers**
Major 1	23ABEC51MM	Indian Economic Development - I	**4**	**3**	23ABEC61MM	Indian Economic Development - II	**4**	**3**
Major 2	23ABEC52MM	Financial Economics - I	**4**		23ABEC62MM	Financial Economics - II	**4**	
Major 3	23ABEC53MM	Statistical Methods	**2**		23ABEC63MM	History of Indian Economic Thought (IKS)	**2**	
Major Elective	23ABEC51MEA	Industrial Economics	**4**	**1**	23ABEC61MEA	Agriculture Economics	**4**	**1**
	23ABEC51MEB	Mathematical Economics			23ABEC61MEB	Econometrics		
VSC	23ABEC51VS	Basics of Research Methodology	**2**	**1**	-	-	**-**	
FP / OJT	23ABEC51FP	Field Project	**2**	**1**	23ABEC61OJ	On Job Training	**4**	**1**
Minor	23ABEC51MN	Financial System - I	**4**	**1**	23ABEC61MN	Financial System - II	**4**	**1**
	Total Papers			**7**	**Total Papers**			**6**

VSC: Vocational Skill Course

Major Elective: Choice of any one paper

Syllabus for T.Y.B.A. - Economics

NEP 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Indian Economic Development - II		**Semester: VI**
Course Code: 23ABEC61MM		**No. of Credits: 04**
Nature of Course: Major Mandatory		**Total Teaching Hours: 60**

Course Objectives	
1.	To provide students with a thorough understanding of economic planning in India.
2.	To explore NITI Aayog, and assess its contribution to India's economic planning and development.
3.	To equip students with knowledge of sustainable development, its global significance, and India's progress towards achieving SDGs.
4.	To familiarize the students with the relationship between environment and economic development.

Course Outcomes	
1.	Students will demonstrate an understanding of economic planning.
2.	Students will understand NITI Aayog's role in shaping India's economic policies.
3.	Evaluate India's progress towards achieving the SDGs.
4.	Students will evaluate and analyze the economic impacts of environmental degradation.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Economic Planning**	**15**
	1. Economic Planning – Meaning and Importance 2. Objectives of Economic Planning in India 3. Types of Economic Planning 4. Strategies of Economic Planning in India- past & present	
II	**NITI Aayog**	**14**
	1. Formation and Structure and Pillars of NITI Aayog (2015) 2. Difference between Planning Commission and NITI Aayog 3. Objectives and functions of NITI Aayog 4. NITI Aayog's role in India's economic development and in policy formulation 5. Overview of different indices published by NITI Aayog	
III	**Sustainable Development and India**	**15**
	1. Sustainable Development: concept and Importance 2. 17 SDGs (Sustainable Development Goals) and India's progress 3. Challenges faced in achieving SDGs goal 4. Indian Policies for promoting sustainable development	
IV	**Environment and Economic Development**	**16**
	1. Relationship between environment and economic development 2. Environmental degradation and its economic impact 3. Green economy and sustainable practices 4. **Environmental policies and regulations in India**: i. National Environmental Policy (NEP), 2006 ii. National Action Plan on Climate Change (NAPCC), 2008 5. **Government Initiatives and Programs:** Clean India Mission, E-Waste Management Rules, 2016	

Suggested Readings	
1.	Jhingan, M. L. (2007). *Economic planning in India*. Vrinda Publications
2.	Mathur, B. P. (2006). *Planning in India: A historical perspective*. Abhijeet Publications
3.	Gupta, R. K. (2016). *NITI Aayog: Reforms for the future*. New Century Publications
4.	Sundar, M. R. G. (2015). *Sustainable development: Principles and practice*. Orient Blackswan.
5.	Dasgupta, P. S. (2012). *Environmental economics*: Theory and applications. Cambridge University Press.
6.	Ragnar Nurkse, *Problem of Capital Formation in Underdeveloped Countries*
7.	Sen Amartya (1970) Growth Economics, Penguin
8.	Mishra & Puri, *Development and Planning- Theory and Practice*, Himalaya.
9.	Higgins, Benjamin. (1959) *Economic Development*, W.W.Norton , New York 11
10.	Todaro M.P. (1996) *Economic Development* (6th Edition) Longman, London.

Recommended Journals, Reports and Websites:

- NITI Aayog Reports & Publications: https://www.niti.gov.in/report-and-publication
- NITI Aayog indices: https://www.niti.gov.in/social-sector-indices
- Journal of Environmental Economics and Management: https://www.sciencedirect.com/journal/journal-of-environmental-economics-and-management
- Journal of Sustainable Development: https://www.ccsenet.org/journal/index.php/jsd
- World Development: https://www.sciencedirect.com/journal/world-development
- United Nations Sustainable Development Goals; https://sdgs.un.org/
- Economic Development and Cultural Change: https://www.journals.uchicago.edu/toc/edcc/current
- Economic and Political Weekly (EPW); https://www.epw.in/
- United Nations Development Programme (UNDP). (2023). *Human Development Report*. https://hdr.undp.org/
- World Bank. (2022). World Development Report. https://www.worldbank.org/en/publication/wdr/wdr-archive
- Ministry of Finance, Government of India. (2023). ***Economic Survey of India***

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Financial Economics - II		**Semester: VI**
Course Code: 23ABEC62MM		**No. of Credits: 04**
Nature of Course: Major Mandatory		**Total Teaching Hours: 60**

Course Objectives	
1.	To familiarise students with the principles of corporate finance, including capital structure and dividend policies.
2.	To provide insights into international finance, including foreign exchange markets and global financial institutions.
3.	To introduce behavioural finance concepts and their implications for decision-making in financial markets.
4.	To develop an understanding of financial risk management and the tools used to mitigate risks.

Course Outcomes	
1.	Understand the fundamental concepts of corporate finance and its application in decision-making.
2.	Develop insights into global financial markets, including foreign exchange mechanisms and international institutions.
3.	Ability to identify behavioural biases affecting investment decisions and market efficiency.
4.	Acquire knowledge of financial risk management techniques and regulatory frameworks like Basel Norms.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Corporate Finance**	**14**
	1. Capital structure theories: Trade-off and pecking order theories 2. Cost of capital: Determination and significance 3. Dividend policy: Types and factors influencing dividend decisions 4. Working capital management: Components and strategies	
II	**Behavioral Finance**	**16**
	1. Introduction to behavioral finance: Key concepts and importance 2. Cognitive biases and their impact on investment decisions 3. Market anomalies: Causes and implications 4. Behavioral aspects of asset pricing and corporate finance	
III	**Financial Risk Management**	**16**
	1. Types of financial risks: Market, credit, operational, and liquidity risks 2. Risk measurement techniques: Value at Risk (VaR), stress testing 3. Risk management tools: Hedging, insurance, and diversification 4. Regulatory frameworks for risk management in financial institutions	
IV	**Contemporary Issues in Financial Economics**	**14**
	1. Fintech and Digital Banking: Evolution and impact. 2. Sustainable Finance: Green Bonds and ESG (Environmental Social, Governance) investing 3. Financial Inclusion: Importance and challenges 4. Global Financial Crises: Causes and lessons learned	

Suggested Readings	
15.	Chandra, P. (2021). *Financial Management: Theory and Practice* (10th ed.). McGraw-Hill Education.
16.	Khan, M. Y., & Jain, P. K. (2018). *Financial Management: Text, Problems, and Cases* (8th ed.). McGraw-Hill Education.
17.	Bodie, Z., Kane, A., & Marcus, A. J. (2014). *Investments* (10th ed.). McGraw-Hill Education.
18.	Hull, J. C. (2017). *Options, Futures, and Other Derivatives* (9th ed.). Pearson.
19.	Mishkin, F. S. (2018). *The Economics of Money, Banking, and Financial Markets* (12th ed.). Pearson.
20.	Ross, S. A., Westerfield, R. W., & Jaffe, J. (2016). *Corporate Finance* (11th ed.). McGraw-Hill Education.
21.	Madura, J. (2018). *International Financial Management* (13th ed.). Cengage Learning.
22.	LeRoy, S. F., & Werner, J. (2014). *Principles of Financial Economics* (2nd ed.). Cambridge University Press.
23.	Shiller, R. J. (2015). *Irrational Exuberance* (3rd ed.). Princeton University Press.
24.	Chakravarty, S. R. (2014). *An Outline of Financial Economics*. Anthem Press.
25.	Yoganandham, G. (2021). *Financial Economics*. New Century Publications.
26.	Rajan, R. G. (2010). *Fault Lines: How Hidden Fractures Still Threaten the World Economy*. Princeton University Press.
27.	Rakshit, M. (2010). *Money and Finance in the Indian Economy*. Oxford University Press.
28.	Nandi, S. (2023). *Economics of the International Financial System*. Routledge.

Web References:

6. Investopedia - Definitions and detailed explanations of financial concepts like derivatives, portfolio management, and financial markets.
   https://www.investopedia.com
7. Reserve Bank of India (RBI) - Publications and updates on Indian financial markets and regulations.
   https://www.rbi.org.in
8. NSE India Learning Hub - Resources on Indian financial markets, trading, and recent developments.
   https://www.nseindia.com/education

9. Coursera: Financial Markets - A course on financial markets and risk management by Yale University.
https://www.coursera.org/learn/financial-markets-global

10. Khan Academy: Finance - Free videos on time value of money, risk-return trade-offs, and investments.
https://www.khanacademy.org/economics-finance-domain/core-finance

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: History of Indian Economic Thought (IKS)		**Semester: VI**
Course Code: 23ABEC63MM		**No. of Credits: 02**
Nature of Course: Major Mandatory		**Total Teaching Hours: 30**

Course Objectives	
1.	This course will introduce the students to economic thought by tracing its history.
2.	To impart students the knowledge about the Ancient, Mediaval & Modern Economic thought in India
3.	The course will enable the students to understand the development of economics from the beginning of economic thinking in India.
4.	The course will enable the students to understand Gandhian principle of Swadeshi and village economy & early approaches to planning in India

Course Outcome	
1.	Work with information: to find, evaluate and use information from various sources, necessary to solve scientific and professional problems.
2.	Critically evaluate the main trends of Indian economic thought, competently lead a discussion about the arguments in favor of each of them.
3.	Based on the description of economic processes and phenomena, students should be able to build theoretical models, analyze and meaningfully interpret the results obtained;

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Introduction to Economic Thought**	**8**
	1. Definition of History of Economic Thought. 2. Scope of Economic Thought. 3. Significance of Economic Thought. 4. Sources of Information	
II	**Economic Thought in India: Ancient and Medieval Economic Thought**	**10**
	1. Introduction- Economic Thought in India 2. Economic Thought in ancient India- Economic Ideas of Kautilya and Valluvar 3. Economic Thought in Medieval India	
III	**Modern Economic Thought in India**	**12**
	1. Modern economic ideas: Naoroji, Ranade, R.C. Dutt, Gokhale, J.K. Metha 2. Economic ideas of Gandhi: Village, swadesi, place of machine and labor, cottage industries, trusteeship 3. Economic thought of B.R. Ambedkar 4. Early approaches to planning – Cooperation as a strategy: Contributions of Visvesvaraya, C.N. Vakil and V.K.R.V Rao	

Suggested Readings	
1.	Backhouse, A. *History of modern economic analysis.* Oxford University Press.
2.	Bhatia, H. L. *History of economic thought.* Vikas Publishing House Pvt. Ltd.
3.	Ganguli, B. N. *Indian economic thought: A nineteenth century perspective.* Tata McGraw-Hill Publishing Co.
4.	Ambedkar, B. R. (1923). *The problem of the Indian rupee: Its origin and its solution (History of Indian currency & banking).*
5.	Ghosh, B. N. (2007). *Gandhian political economy: Principles, practice and policy.* Routledge.
6.	Hunt, E. K., & Lautzenheiser, M. (2011). *History of economic thought: A critical perspective.* M.E. Sharpe.
7.	Rangarajan, L. N. (1992). *Kautilya: The Arthashastra.* Penguin Books.
8.	Hajela, T. N. *History of economic thought* (Latest ed.). Konark Publishers Pvt. Ltd.
9.	Chandra, S. (2007). *History of medieval India.* Orient BlackSwan.

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Agriculture Economics		**Semester: VI**
Course Code: 23ABEC61MEA		**No. of Credits: 04**
Nature of Course: Major Elective		**Total Teaching Hours: 60**

Course Objectives	
1.	To acquaint students with the importance and contribution of the agricultural sector to the national economy.
2.	To familiarise students with the various strategies and policies adopted by the government for economic development.
3.	To examine the governmental measures and policy interventions aimed at addressing key problems in Indian agriculture.
4.	To enable students to understand different sources and modes of agricultural finance and their role in agricultural development.

Course Outcomes	
1.	Students will be able to explain the fundamental concepts and importance of agricultural economics.
2.	Students will be able to analyse the role of agriculture in promoting economic development.
3.	Students will develop the ability to critically evaluate various government policies and programmes for agricultural development and marketing in India.
4.	Students will be able to assess the significance of agricultural finance and its impact on the growth and development of the agricultural sector in India.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Introduction to Agricultural Economics**	**15**
	1. Definition, Nature, and Scope of Agricultural Economics 2. Importance and Role of Agriculture in Economic Development 3. Interdependence between Agriculture and Industry 4. Characteristics of Traditional and Modern Agriculture	
II	**Agricultural Production and Productivity**	**15**
	1. Agricultural Production Function: Meaning and Types 2. Green Revolution: Achievements and Challenges 3. Sustainable Agricultural Practices and Organic Farming 4. Agricultural Challenges: Low productivity and yield, Fragmentation of landholdings, Lack of credit facilities and indebtedness 5. Measures to improve agricultural productivity	
III	**Agricultural Markets, Trade and Pricing**	**15**
	1. Structure and Types of Agricultural Markets 2. Pricing of Agricultural Products: MSP (Minimum Support Price), Market Price, Procurement Price, and Issue Price 3. Challenges in Agricultural Marketing and Solutions 4. Importance of Agricultural Trade 5. Impact of WTO agreement on Agriculture	
IV	**Agricultural Finance in India**	**15**
	1. Importance of Agricultural Finance in India. 2. Role of NABARD and Cooperative Banks 3. Credit Facilities for Farmers: Kisan Credit Card 4. Recent Government Schemes for Agriculture (PM-KISAN, PMFBY); Agriculture Infrastructure Fund (AIF), Financing for organic Farming.	

Suggested Readings	
1.	Bahaduri, A. *The economic structure of backward agriculture.* Academic Press.
2.	Bansil, P. C. *Agricultural problems of India.* Vikas Publishing House Pvt. Ltd.
3.	Dasgupta, B. *The agricultural technology in India.*
4.	Dutt, R., & Sundaram, K. P. M. *Indian economy.* S. Chand & Company Ltd.
5.	Ellis, F. *Peasant economics.* Cambridge University Press.
6.	Bhalla, G. S. *Agricultural development since independence.* National Book Trust.
7.	Mishra, S. K., & Puri, V. K. *Indian economy.* Himalaya Publishing House, New Delhi.
8.	More, J. A., & Joshi, S. S. *A. M. Khusro: Indian foodgrains marketing.*
9.	Schultz, T. W. *Transformation of traditional agriculture.*
10.	Mellor, J. W. *Agricultural development.*
11.	*Indian Journal of Agricultural Economics.* Relevant issues.
12.	Reddy, S., Raghuram, P., Neelkanth Sastry, T. V., & Bhavani Devi, I. (2021). *Agricultural economics.* CBS Publishers and Distributors.
13.	Aacharya, S. S., & Agarwal, N. L. (2021). *Agriculture marketing in India.* CBS Publishers and Distributors.

Web References:

1. https://www.manage.gov.in/
2. https://www.ijnrd.org/papers/IJNRD2208088.pdf
3. https://agmarknet.org.in/
4. https://naarm.org.in/books
5. https://www.britannica.com/money/agricultural-economics/Kinds-of-farm-operation
6. https://www.economicsdiscussion.net/agricultural-economics/agricultural-economics-meaning-scope-and-nature/21406
7. https://www.nabard.org/content.aspx?id=4#:~:text=NABARD%20by%20virtue%20of%20its,in%20achieving%20credit%20targets%2C%20supervising
8. https://pib.gov.in/PressNoteDetails.aspx?NoteId=152061&ModuleId=3&reg=3&lang=1

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Econometrics		**Semester: VI**
Course Code: 23ABEC61MEB		**No. of Credits: 04**
Nature of Course: Major Elective		**Total Teaching Hours: 60**

Course Objectives	
1.	To introduce students to the fundamental concepts, scope, and applications of econometrics in economic analysis.
2.	To familiarise students with the process of formulating, estimating, and evaluating econometric models.
3.	To develop the ability to apply regression techniques for analysing economic relationships.
4.	To equip students with the knowledge to identify and address common econometric problems such as heteroscedasticity, autocorrelation, and multicollinearity.

Course Outcomes	
1.	Students will be able to explain the meaning, nature, and scope of econometrics and its relation to economics and statistics.
2.	Students will be able to construct, estimate, and interpret econometric models using the Ordinary Least Squares (OLS) method.
3.	Students will be able to apply econometric tools to analyse economic data and test hypotheses effectively.
4.	Students will be able to identify, assess, and suggest remedies for econometric issues such as heteroscedasticity, autocorrelation, and multicollinearity.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Introduction to Econometrics**	**12**
	1. Econometrics: Meaning and scope 2. Relationship of econometrics with economics and statistics 3. Variables: Dependent and independent variables; endogenous and exogenous variables 4. Data: Time series data, cross-section data, and panel data. 5. Limitations of econometric methods	
II	**Methodology of Econometric Research**	**16**
	1. Statement of theory or hypothesis 2. Specification of the econometric model 3. Estimation of the parameters of the model 4. Evaluation of estimates and statistical inference	
III	**Linear Regression Analysis**	**16**
	1. Regression: Meaning and importance 2. Simple linear regression model: Assumptions and estimation of parameters 3. Properties of Ordinary Least Squares (OLS) estimators 4. Multiple linear regression model: Assumptions and estimation of coefficients using OLS	
IV	**Problems in the OLS Method**	**16**
	1. Assumptions of the OLS method 2. Heteroscedasticity: Concept and impact on regression; Weighted Least Squares (WLS) 3. Autocorrelation: Concept and impact on regression; Durbin–Watson test 4. Multicollinearity: Impact on regression; Variance Inflation Factor (VIF)	

Suggested Readings	
1.	Daugherty, C. (2011). *Introduction to econometrics* (4th ed.). OUP Oxford.
2.	Asteriou, D., & Hall, S. G. (2007). *Applied econometrics: A modern approach.* Palgrave Macmillan.
3.	Gujarati, D. N. (2007). *Basic econometrics* (4th ed.). McGraw-Hill Education.
4.	Hatikar, N. R. (2010). *Principles of econometrics.* SAGE India.
5.	Koutsoyiannis, A. (1977). *Theory of econometrics* (2nd ed.). The Macmillan Press Ltd.
6.	Johnston, J. (1985). *Econometric methods.* McGraw-Hill.
7.	Greene, W. H. (2003). *Econometric analysis.* Prentice Hall, Pearson Education.
8.	Kmenta, J. (1997). *Elements of econometrics.* University of Michigan Press.

Web References:

1. http://www.ats.ucla.edu/stat/r/dae/tobit.htm
2. https://cran.r-project.org/web/packages/censReg/vignettes/censReg.pdf Related R resources
3. https://stat.ethz.ch/R-manual/R-devel/library/stats/html/00Index.html
4. https://cbpbu.ac.in/userfiles/file/2020/STUDY_MAT/ECO/Study%20Materials%20Econometrics_compressed.pdf

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: On Job Training		**Semester: VI**
Course Code: 23ABEC61OJ		**No. of Credits: 04**
Nature of Course: On Job Training		**Total Contact Hours: 120**

Course Objectives	
1.	To acquaint the students with the discipline of Economics and how it works in the real world.
2.	To discuss various analytical tools to comprehend and analyse the market.
3.	The course aims to equip students with the understanding of the latest developments in the field of economics.

Course Outcome	
1.	Ability to analyze and evaluate the subject with reference to various aspects of real market economics.
2.	Ability to develop an understanding of the economics and various analytical tools to comprehend market dynamics.
3.	To understand the key issues of market analysis with reference to demand and supply forces.
4.	To understand the analytical framework adapted by the discipline of Economics.
5.	To understand different techniques of valuation and cost benefit analysis that goes into decision making for a business.

Syllabus

Sr. No.	On Job Training
1.	Banking, Financial Services, and Insurance (BFSI)
2.	Research and Consultancy Firm
3.	Small and Medium Enterprises (SME)
4.	Education Sector
5.	Data Analysis Firm
6.	Credit Analysis Firm
7.	CA firm
8.	Firms not included in the above category

On Job Training

First of all, select a firm from the above broad areas in consultation with the internal guide. After finalising the firm, select a topic of your interest by consulting the company guide and the guide from the college.

Guidelines

Economists focus on studying the demand and supply of goods and services in an economy by gathering relevant data, researching trends, and analysing them. They apply both qualitative and quantitative economic analysis to diverse topics, including tax rates, business cycles, exchange rates, international trade, economic development, health/energy statistics, transportation, etc.

Economists are highly skilled in data sampling and survey techniques to collect data. Using these techniques, they evaluate both present and historical trends to make forecasts, which is pivotal to businesses and organisations. Economists who work for large corporations collaborate with senior executives (managers and decision-makers) to study industry data to understand how the present economy will affect the company’s operations.

OJT requires the researcher to combine theory and analysis tools learnt in the classroom. Students have to perform a range of duties such as gathering data, forecasting market trends, studying economic and statistical data, etc. Researchers analyse data, conduct research on economic issues, and prepare detailed reports highlighting the findings. They also study the socio-economic impact of new public policies like taxes, regulations, etc.

1. **Introduction:** The report of OJT must have an introduction including the specific objective, statement of the problem, and methods of data collection and data analysis. Also, it should have the theoretical background of the study.
2. **Interpretation and Analysis:** Write the analysis and interpretations of observations and data analysis within the larger context of the theories and issues described in the introduction.
3. **Conclusion and Recommendations:** The conclusion should briefly recap the entire study, reiterating the importance or significance of your observations. The conclusion should not be more than two or three paragraphs.
4. **Appendix:** Appendix includes figures, tables, charts, graphs of results, statistics, pictures, maps, drawings, or, if applicable, transcripts of interviews.
5. **References:** List all sources that were consulted and obtained information from while writing the report.

 # For detailed guideline: Refer to the college standard OJT guideline as per the Higher and Technical Education Department, Government of Maharashtra.

Syllabus for T.Y.B.A. Economics

CBCS 2023 Pattern – w.e.f. Academic Year 2025-26

Based on NEP 2020 Guidelines

Course Title: Financial System - II		**Semester: VI**
Course Code: 23ABEC61MN		**No. of Credits: 04**
Nature of Course: Minor		**Total Teaching Hours: 60**

Course Objectives	
1.	To examine the structure, functions, and role of the Reserve Bank of India in the Indian economy.
2.	To provide an in-depth understanding of the structure, role, and functions of financial regulators such as SEBI, IRDA, and PFRDA.
3.	To familiarize students with the structure, objectives, and roles of major international financial institutions like the IMF, World Bank, and ADB.
4.	To assess recent developments in the Indian financial sector, including risk management, insolvency codes, and Basel norms.

Course Outcomes	
1.	Gain knowledge of the role of the Reserve Bank of India and its monetary policy tools and limitations.
2.	Understand the regulatory framework of financial institutions, focusing on SEBI, IRDA, and PFRDA.
3.	Critically evaluate the roles and functions of international financial institutions and their impact on global and Indian economies.
4.	Assess recent changes in the Indian financial sector, including the implementation of Basel norms, alternate finance sources, and risk management strategies.

Syllabus		
Unit No.	**Title with Contents**	**No. of Hours**
I	**Reserve Bank of India**	**12**
	1. Structure and role of RBI in Indian Economy 2. Major Functions of RBI 3. Monetary Policy: Tools and their Limitations	
II	**Other Financial Regulators in India**	**14**
	1. SEBI: Structure, Role and Functions 2. IRDA: Structure, Role and Functions 3. PFRDA: Structure, Role and Functions	
III	**International Financial Institution**	**16**
	1. Role, Structure, Objectives and Functions of IMF 2. Role, Structure, Objectives and Functions of World Bank 3. Role, Structure, Objectives and Functions of Asian Development Bank 4. Role, Structure, Objectives and Functions of BRICS Bank	
IV	**Recent Developments in Indian Financial Sector**	**18**
	1. Objectives and outcomes of changing landscape of banking sector in India 2. Insolvency and bankruptcy code 3. Alternate source of finance 4. Risk management in banking sector 5. Basel norms and India 6. Recent trends in Indian banking sector	

Suggested Readings	
1.	Khan, M. Y. (2019). *Indian Financial System* (11th ed.). McGraw-Hill Education.
2.	Pathak, B. V. (2014). *Indian Financial System*. Pearson Education India.
3.	Sarkhel, J., & Salim, S. (2018). *Indian Financial System*. McGraw-Hill Education.
4.	Bhole, L. M. (2004). *Financial Institutions and Markets: Structure, Growth and Innovations* (4th ed.). Tata McGraw-Hill Education.
5.	Shah, A., Thomas, S., & Gorham, M. (2008). *Indian Financial Markets: An Insider's Guide to How the Markets Work*. Elsevier.
6.	Parameswaran, R. (2001). *Indian Banking*. S. Chand Publishing.
7.	Akhan, J. A. (2010). *Non-Banking Financial Companies (NBFCs) in India: Functioning and Reforms*. Elsevier.
8.	Chawla, A. S., Uppal, K. K., & Malhotra, K. (1988). *Indian Banking Towards 21st Century*.

Web References:

1. Investopedia - Definitions and detailed explanations of financial concepts like derivatives, portfolio management, and financial markets.
   https://www.investopedia.com
2. Reserve Bank of India (RBI) - Publications and updates on Indian financial markets and regulations.
   https://www.rbi.org.in
3. NSE India Learning Hub - Resources on Indian financial markets, trading, and recent developments.
   https://www.nseindia.com/education
4. Coursera: Financial Markets - A course on financial markets and risk management by Yale University.
   https://www.coursera.org/learn/financial-markets-global
5. Khan Academy: Finance - Free videos on time value of money, risk-return trade-offs, and investments.
   https://www.khanacademy.org/economics-finance-domain/core-finance