

**TRIPURA UNIVERSITY**

**ECONOMICS**

**UG SEM 1**

## Syllabus for Economics Major 1 (Part of SEM 1)

<b>Programme/Class</b> <b>Degree: BA</b>	<b>Year: First</b>	<b>Semester: First</b>  <b>Major 101</b>
<b>Subject: Economics (Major)</b>		
<b>Course code:</b>	<b>Course Title: Basic Economics</b>	
<b>Course objective:</b>	<ul style="list-style-type: none"> <li>• To introduce the basic concepts of Microeconomics, Laws of demand and supply, concept of elasticity, etc.</li> <li>• To impart knowledge about the concepts of consumer behaviour</li> <li>• To familiarize the students with price effect, income effect and substitution effect, the application of indifference curve analysis in deriving demand curves</li> <li>• To introduce the theory of production- isoquants, isocosts, producer equilibrium, laws of returns to scale, laws of variable proportion.</li> <li>• To familiarize the students with the theory of cost, relation between marginal cost and average cost, derivation of short run and long run average cost curves, the meaning of market, classification of market structures, the concepts and classifications of revenue, relation between marginal revenue, average revenue, and also relation among marginal revenue, average revenue and elasticity.</li> <li>• To put across the concept of national income, calculation methods of national income, and concepts related to national income.</li> <li>• To familiarize the students about the objectives and components of government budget, classification of receipts and expenditures, measures of government deficit.</li> </ul>	
<b>Course outcome:</b>	<ul style="list-style-type: none"> <li>• The students get familiarized with the basic concepts of Microeconomics, Laws of demand and supply, concept of elasticity, etc. so that he/ she can comprehend and familiarize with day today happenings.</li> <li>• Understand the concepts of consumer behaviour like Cardinal utility and ordinal utility analysis.</li> <li>• The students learn and understand the price effect, income effect and substitution effect, the application of indifference curve analysis in deriving demand curves</li> <li>• The students are able to understand the theory of production- isoquants, isocosts, producer equilibrium, laws of returns to scale, laws of variable proportion.</li> <li>• The students learn and understand the theory of cost, relation between marginal cost and average cost, derivation of short run and long run average cost curves.</li> <li>• The students come to know about the concept of market and its different structures, concepts and classifications of revenue, relation between marginal revenue, average revenue and relation among marginal revenue, average revenue and elasticity.</li> <li>• The students are able to explain national income, comprehend methods of measurement of national income, and concepts related to national income.</li> <li>• The students understand the objectives and components of government budget, classification of receipts and expenditures, measures of government deficit.</li> </ul>	
<b>Credits: 04</b>	<b>Core Compulsory</b>	
<b>Max. Marks: 100</b>	<b>Min. Passing Marks: 40</b>	

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Unit	Topics	No. of Lectures
<b>UNIT-I</b> (Basic concepts of Economics):	<p>Nature and scope of Economics; Positive &amp; Normative Economics; Micro &amp; Macro Economics.</p> <p>Basic Problems &amp; Agents of an Economy; Demand, Supply &amp; Market Equilibrium; Derivation of Market Demand &amp; Supply; Change in Supply &amp; Demand and Economic Implications.</p> <p>Elasticity of Supply: Concept, Determinants &amp; Measurement; Elasticity of Demand: Concept, Types &amp; Determinants; Measurement of Point Elasticity; Concepts of Unit Elasticity &amp; Arc Elasticity, Relation between Slope and Elasticity of Demand.</p>	12
<b>UNIT-II</b> (Theory of Consumer Behaviour):	<p>Cardinal &amp; Ordinal Utility; Law of Diminishing Marginal Utility; Marshallian Utility Analysis; Derivation of Demand Curve and Its Elasticity Implication.</p> <p>Concepts &amp; Properties of Indifference Curve &amp; Budget Line; Total Utility, Marginal Utility &amp; Average Utility; consumer's equilibrium-interior and corner;</p> <p>Decomposition of Price effect into Income and Substitution effect (Hicks and Slutsky), Ordinary &amp; Compensated Demand curves, Price consumption curve and Giffen good, Income consumption curve and Engel curve.</p>	12
<b>UNIT-III</b> (Theory of Production, Cost and Revenue):	<p>Production Function, Laws of Variable Proportions and Returns to Scale; Total, Average and Marginal Products</p> <p>Concepts &amp; Properties of Isoquant &amp; Isocost Line;</p> <p>Concept of MRTS, Producer's Equilibrium, Elasticity of substitution; Ridge Lines &amp; Economic Zone; Expansion Path ;</p> <p>Cost Minimization and Output Maximization</p> <p>Cost structure- implicit cost, explicit cost, fixed cost, variable cost, total, average and marginal cost.</p> <p>Relation between marginal cost &amp; average cost; Derivation of SAC &amp; LAC.</p> <p>Meaning of market; classification of market structures; Concepts of Total Revenue, Marginal Revenue (MR) &amp; Average Revenue (AR); Relation between AR and MR under imperfect competition; Relation between AR and MR under imperfect competition; AR, MR and Price Elasticity of Demand</p>	13

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<b>UNIT-IV</b> (Introductory Macroeconomics) :	<p>Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.</p> <p>National Income and related aggregates: GNP, NNP(at factor cost and market price),GDP, NDP, GDP, PI &amp; DPI);Concepts of Depreciation, GDP Deflator, CPI; Measurements of National Income: Aggregation of Output, Income and Expenditure; National Income as an index of economic welfare.</p> <p>Government Budget and the Economy: Government budget - meaning, objectives and components.</p> <p>Classification of receipts - revenue receipts and capital receipts; classification of expenditure-revenue expenditure and capital expenditure.</p> <p>Measures of government deficit - revenue deficit, fiscal deficit, and primary deficit- their meaning.</p>	13
<p><i>Suggested Readings:</i></p> <ul style="list-style-type: none"> <li>▪ Sampat Mukherjee, <i>Analytical Microeconomics</i>, New Central Book Agency (P) Ltd.</li> <li>▪ Joydeb Sarkhel, <i>Micro Economic Theory</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ Hal R. Varian, <i>Intermediate Microeconomics: A Modern Approach</i>, East- West Press, New Delhi.</li> <li>▪ Koutsoyiannis, <i>Modern Micro Economics</i>, Macmillan, London</li> <li>▪ Montosh Chakraborty, <i>Byastik Arthaniti</i>, Dhakeswary Library, Dhaka.</li> <li>▪ H.L. Ahuja, <i>Advanced Economic Theory</i>, S.Chand&amp; Company Ltd.</li> <li>▪ Sampat Mukherjee &amp; Debesh Mukherjee, <i>Samakalin Arthabidya</i>, New Central Book Agency (P) Ltd.</li> <li>▪ Satya R. Chakraborty, <i>Microeconomics</i>, Allied Publishers Pvt Ltd.</li> <li>▪ Joydeb Sarkhel, <i>Adhunik Arthanitir Bhumika</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ Rana and Verma, <i>Macroeconomic Analysis</i>, Vishal Publication</li> <li>▪ Ahuja, H.L., <i>Macroeconomics: Theory and Policy</i>, S. Chand&amp; Co, New Delhi</li> <li>▪ R. Dutt&amp; K.P.M. Sundaram, <i>Indian Economy</i>, S. Chand&amp; Co, New Delhi</li> <li>▪ S.K. Mishra &amp; V.K. Puri, <i>Indian Economy</i>, Himalayan Publishing House</li> <li>▪ Swapan Kr. Ray &amp; Joydeb Sarkhel, <i>Bharater Arthaniti</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ Joydeb Sarkhel &amp; Sheikh Salim, <i>Bharatiya Arthaniti</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ N. Gregory Mankiw, <i>Principles of Microeconomics</i>, 6th Edition, NewDelhi: Cengage Learning India (Pvt.) Ltd.</li> <li>▪ N. Gregory Mankiw, <i>Principles of Macroeconomics</i>, 6th Edition, NewDelhi: Cengage Learning India (Pvt.) Ltd.</li> <li>▪ Shapiro, E. <i>Macroeconomic Analysis</i>, New Delhi: Galgotia PublicationsPvt. Ltd.</li> <li>▪ Dornbusch, R. and F. Stanley, <i>Macroeconomics</i>, New York: McGrawHill, Inc.</li> </ul>		
<p><b>Suggested Continuous Evaluation Methods:</b>          Assignment /Test/Quiz (MCQ)/Presentations</p>		
<p><b>Suggested equivalent online:</b>          Swayam, <a href="http://www.indiabudget.gov.in">www.indiabudget.gov.in</a></p>		

## Syllabus for Economics Major 2 (Part of SEM 1)

**Major 102**

Programme/Class Degree: BA	Year: First	Semester: Two
<b>Subject: Economics (Major)</b>		
Course Code:	<b>Course Title: Issues in Indian Economy</b>	
Course Objective	To give an understanding about the <ul style="list-style-type: none"> <li>• Demographic profile of the country</li> <li>• Different sectors of the Indian economy</li> <li>• Public sector and Indian financial system</li> <li>• External sector of the country</li> </ul>	
Course Outcome	Students will learn about the nature of the Indian economy and its problems. This will help them understand and analyze the changes of different indicators of Indian economy using basic economic tools.	
Credits: 04	Core Compulsory	
Max. Marks: 100	Min. Passing Marks: 40	
Keywords		
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I:  Structure and Trends of Indian Economy	Features of Indian Economy; Sectoral Distribution of National Income & Its Significance Demographic: Features, Trend and Problems; inter-state demographic variation with respect to major economic indicators	13
UNIT-II:  Primary, Secondary & Tertiary Sectors	Farm Size & Productivity; Land Reform: Nature & Scope, Objectives, Programmes, Achievements & Failures; Green Revolution: Salient Features, Impact Industrial development during planned period; Composition, Trends of Service sector and its role in Indian Economic Development	14
UNIT-III:  Public Sector & Indian Financial System	Public Sector: Role and Performance; Features of Indian Tax System & Role of Indirect Taxation; GST and related issues; Reserve Bank of India: Functions & Role. Commercial Banks: Nationalisation, Merger & Acquisition and its role in Indian Economy,	12
UNIT-IV:  External Sector	Foreign Capital: Need, Importance & Weakness; FDI and FII; Trade: Composition & Trends; Export Promotion & Import Substitution;	11

**Suggested Readings:**

1. R. Dutt & K.P.M. Sundaram – Indian Economy, S. Chand & Co. Delhi
2. Mishra & Puri – Indian Economy, Himalaya Publishing House, Mumbai
3. Uma Kapila (ed.) – Indian Economy Since Independence, Academic Foundation, Delhi
4. Swapan Kr. Roy & Jaydeb Sarkhel, *Bharater Arthaniti*, Book Syndicate Private Ltd.
5. Debesh Mukherjee, *Samakalin Bharatiya Arthaniti*, New Central Book Agency Pvt. Ltd
6. Jean Dreze and Amartya Sen - An Uncertain Glory: India and its Contradictions, Princeton University Press (2013)
7. Mihir Rakshit - Macroeconomics of Post-Reform India (2011)
8. Kaushik Basu and A. Maertens (Eds) - The New Oxford Companion to Economics in India, Oxford University Press (2013)
9. L.M.Bhole and J.Mahakud - Financial Institutions and Markets: Structure, Growth & Innovation (6th Edition, 2017)

Online study material:

1. Economic and Political Weekly, Various Issues.
2. Govt. of India – Economic Survey, Various Years.
3. Ghate, C. and S. Wright (2012). The ‘V-Factor’: Distribution, Timing and Correlates of the Great Indian Growth Turnaround. *Journal of Development Economics*, Vol.99, pp. 58-67.
4. Ahluwalia, M.S (2000). State Level Performance Under Economic Reforms in India. Presented at the Centre for Research on Economic Development and Policy Reform Conference on Indian Economic prospects: Advancing Policy Reform, May 2000; Stanford University
5. <http://www.niti.gov.in/>
6. <https://www.sebi.gov.in/>

## Syllabus for Economics Minor 1 (Part of SEM 1)

**Minor 101**

<b>Programme/Class</b>  <b>Degree: BA</b>	<b>Year: First</b>	<b>Semester: First / Second</b>
<b>Subject: Economics (Minor)</b>		
<b>Course code:</b>	<b>Course Title: Introductory Economics</b>	
<b>Course objective:</b>	<ul style="list-style-type: none"> <li>• To introduce the basic concepts of Economics- micro, macro, growth &amp; development; central problems of the economy</li> <li>• To introduce the concept of production, costs and - isoquants, isocosts, producer equilibrium, laws of returns to scale, laws of variable proportion.</li> <li>• To familiarize the students with the concepts of marginal cost and average cost, short run and long run average cost curves,</li> <li>• To introduce the concepts and classifications of revenue, relation between marginal revenue, average revenue, and also relation among marginal revenue, average revenue and elasticity.</li> <li>• To spread the meaning of market and its classification</li> <li>• To put across the concept of national income, calculation methods of national income, and concepts related to national income.</li> <li>• To familiarise the students with the major schools of economic thought</li> <li>• To enable students to distinguish between growth and development; various measures and concepts of development</li> <li>• To familiarize the students about the objectives and components of government budget, classification of receipts and expenditures, measures of government deficit.</li> </ul>	
<b>Course outcome:</b>	<ul style="list-style-type: none"> <li>• The students get familiarized with the basic concepts of Economics, so that he/ she can comprehend and familiarize with day today happenings.</li> <li>• Understand the concepts of costs, revenue and production as well as the various market forms and functioning</li> <li>• Students will understand the various policy measures adopted by government</li> <li>• The students learn and understand the distinction between growth and development.</li> <li>• The students are able to explain national income, comprehend methods of measurement of national income, and concepts related to national income.</li> <li>• The students understand the objectives and components of government budget, classification of receipts and</li> </ul>	

PROVISIONAL UG SYLLABUS UNDER NEP 2020

	expenditures, measures of government deficit.	
<b>Credits: 04</b>	<b>Core Compulsory</b>	
<b>Max. Marks: 100</b>	<b>Min. Passing Marks: 40</b>	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>UNIT-I</b> (Fundamentals of Microeconomics):	<p><b>Basic Concepts:</b> Wealth, Welfare &amp; Scarcity; Positive &amp; Normative Economics; Micro &amp; Macroeconomics; Central problems of Economy; Concepts &amp; Laws of Demand &amp; Supply; Elasticities</p> <p><b>Production, Costs &amp; Revenue:</b> Returns to a factor, Concepts of total Product; average product, marginal product; Law of Variable Proportion (Three stages) &amp; Returns to scale; Total, Average &amp; Marginal Costs; Concepts of TR, MR and AR- relation among AR, MR and Price Elasticity.</p> <p><b>Concept of Market:</b> Meaning; Classification of Market Structures</p>	09
<b>UNIT-II</b> (Fundamentals of Macroeconomics):	<p><b>National Income and related concepts:</b> NI, GNP, GDP, NNP, NDP (at factor cost and market price), PI &amp; DPI; Measurements of National Income: Circular flow of income in two sector &amp; three model</p> <p><b>Economy and Development:</b> Types of Economy—Capitalist, Socialist &amp; Mixed; Closed &amp; Open Economy; Different sectors of an Economy;</p> <p><b>Major Schools of Thought:</b> Concepts &amp; Comparison of Classics, Keynesian &amp; Monetarists</p>	11
<b>UNIT-III</b> (Money, Banking & Taxes):	<p><b>Money &amp; Banking:</b> Definition of money &amp; its functions; Concepts of Demand for &amp; supply of money; Functions of central and commercial banks; inflation and stagflation</p> <p><b>Government Finances:</b> Basic concepts; Deficit &amp; Surplus Budget; Monetary &amp; Fiscal Policy</p> <p><b>Taxes:</b> Basic concepts; Direct &amp; Indirect taxes—incidence, shifting &amp; burden of taxes; GST</p>	09
<b>UNIT-IV</b> (Development & Trade):	<p><b>Growth &amp; Development:</b> Difference between Growth and Development; Measures of Development: PCI; PQLI; HDI;</p> <p>Unlimited Supplies of Labour- Lewis Model; Concepts of</p>	11



**ECONOMICS**

**ID 1st Sem**

Programme/Class Degree:	Year: First	Semester: 1
<b>Subject: Economics (Interdisciplinary)</b>		
Course Code:	<b>Course Title: Elementary Economics - I</b>	
Course Objective:	To give an understanding about the <ul style="list-style-type: none"> <li>• Basic knowledge about the scope and domain of Economics</li> </ul>	
Course Outcome:	Students will learn about <ul style="list-style-type: none"> <li>• the basic concepts about economics, especially Microeconomics</li> <li>• the various forms of Market and its features</li> <li>• the role of Govt. and Role of Central Bank</li> </ul>	
Credits:	03	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I:	What is Economics? Human wants and needs, Economy – Its meaning and types, Central problems of an economy, Basic economic activities, Concepts of goods and services, concepts of demand and supply, Concept of elasticity, Determinants of price and quantity	10
UNIT-II:	Concept of production, cost and revenue, Concept of Market, Types and forms of market with characteristics, Determination of price in Perfect competition	10
UNIT-III:	Types of Bank-Concepts and differences between Commercial and Central Banks, Role of Reserve Bank of India, Credit Creation; Credit Control	10
UNIT-IV	Role of Govt. in Economy, Provision of Public Goods and Services and Market Intervention and Govt. Budget: Revenue and Expenditure	10
<b>Suggested Readings:</b> <ol style="list-style-type: none"> <li>1. PA Samuelson: Foundations of Economics, 9th edition, Pearson</li> <li>2. Montosh Chakraborty, Byastik Arthaniti (Moulik), Dhakeswary Library, Dhaka.</li> <li>3. H.L. Ahuja, Advanced Economic Theory, S.Chand &amp; Company Ltd.</li> <li>4. Sampat Mukherjee &amp; Debesh Mukherjee, Samakalin Arthabidya, New Central Book Agency (P) Ltd.</li> <li>5. M.L Jhingan- Micro Economic Theory, Vrinda Publications Pvt. Ltd.</li> <li>6. S.K. Mishra &amp; V.K. Puri, Indian Economy, Himalayan Publishing House</li> <li>7. Swapan Kr. Ray &amp; Joydeb Sarkhel, Bharater Arthaniti, Book Syndicate Pvt. Ltd.</li> </ol>		
Suggested Continuous Evaluation Methods: Assignment / Test / MCQ Assignment /Test/Quiz(MCQ)/Presentations		

**UG ECONOMICS**  
**2nd Semester**

## Syllabus for Economics Major 3 (Part of SEM 2)

## Major 201

<b>Programme/Class Degree: BA</b>	<b>Year: First</b>	<b>Semester: Second</b>
<b>Subject: Economics (Major)</b>		
<b>Course code:</b>	<b>Course Title: Microeconomics</b>	
<b>Course objective:</b>	<ul style="list-style-type: none"> <li>To introduce the concept of Perfect Competition and Analysis of Competitive Markets</li> <li>To impart knowledge Profit maximisation under perfect competition</li> <li>To familiarize the students with Market with Power – Monopoly and Monopsony, Monopolistic Competition, Oligopoly</li> <li>To introduce the theory of Price Discrimination</li> <li>To familiarize the students with the various forms of market equilibrium</li> <li>To introduce the students to the Factor Market Analysis and Welfare Economics</li> </ul>	
<b>Course outcome:</b>	<ul style="list-style-type: none"> <li>The students get familiarized with the concepts of Market and its various forms so that he/ she can comprehend and familiarize with day today happenings.</li> <li>Understand the concepts of Profit maximization in competitive markets</li> <li>The students learn and understand the aspects of Price Discrimination</li> <li>The students are able to understand the various forms of market equilibrium</li> <li>The students learn and understand about market efficiency</li> <li>The students come to know about different aspects of Welfare economics.</li> </ul>	
<b>Credits: 04</b>	<b>Core Compulsory</b>	
<b>Max. Marks: 100</b>	<b>Min. Passing Marks: 40</b>	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>UNIT-I (Perfect Competition and Analysis of Competitive Markets):</b>	Profit maximisation under perfect competition in Short run and Long run; Short run supply curve of the firm and Long run supply curve of the industry; Constant, Increasing and Decreasing cost industry; The Effect of Tax	12
<b>UNIT-II (Market with Power – Monopoly and Monopsony):</b>	Market Power and Capturing Consumer Surplus: Price Discrimination-first, second and third degree price discrimination. Monopoly: Sources of monopoly power; Average Revenue, Marginal Revenue and Monopolist Equilibrium; the Multiplant Monopolist; Social cost of monopoly, rent seeking. Monopsony: Monopoly and Monopsony comparison, sources of Monopsony power, Social cost of Monopsony Power, Bilateral Monopoly.	12
<b>UNIT-III (Market with Power – Monopolistic</b>	Monopolistic Competition: Equilibrium in the short run and long run; Economic Efficiency and Monopolistic Competition Oligopoly: Equilibrium – Cournot and Bertrand Model, Competition vs. Collusion	13

<b>Competition and Oligopoly):</b>		
<b>UNIT-IV (Factor Market Analysis and Welfare Economics):</b>	Price and Employment of Factor Inputs in Competitive Factor Market. Pareto Optimality of Competitive Markets, Aggregation of Preferences and Social Welfare Function.	13
<p><i>Suggested Readings:</i></p> <ul style="list-style-type: none"> <li>▪ Sampat Mukherjee, <i>Analytical Microeconomics</i>, New Central Book Agency (P) Ltd.</li> <li>▪ Joydeb Sarkhel, <i>Micro Economic Theory</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ Hal R. Varian, <i>Intermediate Microeconomics: A Modern Approach</i>, East- West Press, New Delhi.</li> <li>▪ Koutsoyiannis, <i>Modern Micro Economics</i>, Macmillan, London</li> <li>▪ Montosh Chakraborty, <i>Byastik Arthaniti</i>, Dhakeswary Library, Dhaka.</li> <li>▪ H.L. Ahuja, <i>Advanced Economic Theory</i>, S.Chand &amp; Company Ltd.</li> <li>▪ Sampat Mukherjee &amp; Debesh Mukherjee, <i>Samakalin Arthabidya</i>, New Central Book Agency (P) Ltd.</li> <li>▪ Satya R. Chakraborty, <i>Microeconomics</i>, Allied Publishers Pvt Ltd.</li> <li>▪ Joydeb Sarkhel, <i>Adhunik Arthanitir Bhumika</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ N. Gregory Mankiw, <i>Principles of Microeconomics</i>, 6th Edition, New Delhi: Cengage Learning India (Pvt.) Ltd.</li> <li>▪ Salvatore. D, <i>Microeconomics</i>, Schaum Series</li> </ul>		
Suggested Continuous Evaluation Methods:		
Assignment /Test/Quiz (MCQ)/Presentations		
Suggested equivalent online:		
Swayam,		

Syllabus for Economics Major 4 (Part of SEM 2)

Programme/Class Degree: BA	Year: First	Semester: Two
<p align="center"><b>Subject: Economics (Major)</b> <span style="float: right;"><b>Major 202</b></span></p>		
Course Code:	<b>Course Title: Macroeconomics</b>	
Course Objective	<p>To give an understanding about the</p> <ul style="list-style-type: none"> <li>• The theories of employment</li> <li>• behaviour of the consumers</li> <li>• Investment patterns and features</li> <li>• Various types of Inflation and cyclical behaviour of the economy</li> </ul>	
Course Outcome	<p>Students will learn about the various aspects of Macroeconomics-</p> <ul style="list-style-type: none"> <li>• including the differences in the classical and Keynesian approaches</li> <li>• the consumption behavior of the people</li> <li>• the approaches to investment</li> <li>• inflation and its dynamics</li> <li>• Business cycle fluctuations</li> </ul>	

Credits: 04	Core Compulsory	
Max. Marks: 100	Min. Passing Marks: 40	
Keywords		
Unit	Topics	No. of Lectures
UNIT-I: <b>Theory of Employment</b>	Classical Theory of Employment, its criticism and Keynesian Revolution. The Theory of Effective Demand; Determination of Simple Keynesian Equilibrium; The IS-LM Framework and Complete Keynesian Model.	15
UNIT-II: <b>Consumption Function</b>	Keynesian's psychological law of consumption, factor effecting law of consumption, Relative Income Hypothesis, Permanent Income Hypothesis, Lifecycle Hypothesis.	12
UNIT-III: <b>Investment Function</b>	Investment Function - MEC and MEI; Keynesian multiplier, Accelerator and the Super Multiplier.	11
UNIT-IV: <b>Inflation and Business Cycle</b>	Inflation: Demand Pull and Cost Push Theories, Effects of Inflation on Production and Distribution, Anti-Inflationary Policy. Business Cycle: Meaning and Characteristics; Hawtrey's Theory of Trade Cycle	12
<b>Suggested Readings:</b> <ul style="list-style-type: none"> <li>▪ Rana and Verma, Macroeconomic Analysis, Vishal Publication</li> <li>▪ Ahuja, H.L., Macroeconomics: Theory and Policy, S. Chand &amp; Co, New Delhi</li> <li>▪ N. Gregory Mankiw, <i>Principles of Macroeconomics</i>, 6th Edition, New Delhi: Cengage Learning India (Pvt.) Ltd.</li> <li>▪ Shapiro, E. <i>Macroeconomic Analysis</i>, New Delhi: Galgotia Publications Pvt. Ltd.</li> <li>▪ Dornbusch, R. and F. Stanley, <i>Macroeconomics</i>, New York: McGrawHill, Inc.</li> <li>▪ Froyen – Macro Economics Theories and Policies, Prentice Hall</li> <li>▪ Branson – Macroeconomics, W. W. Norton &amp; Company</li> <li>▪ Barro – Macroeconomics, The MIT Press</li> <li>▪ Sampat Mukharjee – Analytical Macroeconomics New Central Book agency(P) Ltd.</li> </ul>		

## Syllabus for Economics Minor 2 (Part of SEM 2)

**Minor 201**

Programme/Class Degree: BA	Year: First	Semester: Two
<b>Subject: Economics (First Year)</b>		
Course Code:	<b>Course Title: Indian Economy</b>	
Course Objective	To give an understanding about the <ul style="list-style-type: none"> <li>• Demographic profile of the country</li> <li>• Different sectors of the Indian economy</li> <li>• Public sector and Indian financial system</li> <li>• External sector and evolution of planning in the country</li> </ul>	
Course Outcome	Students will learn about the nature of the Indian economy and its problems. This will help them understand and analyze the changes of different indicators of Indian economy using basic economic tools.	
Credits:	Core Compulsory	
Max. Marks: 100	Min. Passing Marks: 40	
Keywords		
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I:  Structure and Trends of Indian Economy	Features of Indian Economy; Sectoral Distribution of National Income & Its Significance  Poverty: Extent, Causes & Measures to eradicate Poverty; Unemployment: Types, Causes & Government Policy Initiatives  Demographic: Features, Trend and Problems; inter-state demographic variation with respect to major economic indicators	12
UNIT-II:  Primary, Secondary & Tertiary Sectors	Farm Size & Productivity; Land Reform: Nature & Scope, Objectives, Programmes, Achievements & Failures; Green Revolution: Salient Features, Impact; WTO and Indian Agriculture  Industrial development during planned period, Industrial Policies, Growth and problems of MSME; Industrial Productivity and Reforms  Composition, Trends of Service sector and its role in Indian Economic Development in terms of Employment and GDP	12

<p>UNIT-III:</p> <p>Public Sector &amp; Indian Financial System</p>	<p>Public Sector: Role and Performance ; Disinvestment Policy</p> <p>Features of Indian Tax System &amp; Role of Indirect Taxation; GST and related issues; Centre—State financial relation</p> <p>Reserve Bank of India: Functions, Role &amp; Present Monetary Policy; Commercial Banks: Nationalisation, Merger &amp; Acquisition and its role in Indian Economy, Indian Financial Market: Stock Market and SEBI</p>	<p>13</p>
<p>UNIT-IV:</p> <p>External Sector &amp; Planning</p>	<p>Foreign Capital: Need, Importance &amp; Weakness; FDI and FII;</p> <p>Trade: Composition &amp; Trends; Export Promotion &amp; Import Substitution; Issue of Globalisation &amp; Its Consequences</p> <p>Economic Planning: Features, Rationale &amp; Objectives; Reappraisal of Planning; NITI Aayog: Features, Role &amp; Objectives</p>	<p>13</p>
<p><b>Suggested Readings:</b></p> <ol style="list-style-type: none"> <li>1. R. Dutt &amp; K.P.M. Sundaram – Indian Economy, S. Chand &amp; Co. Delhi</li> <li>2. Mishra &amp; Puri – Indian Economy, Himalaya Publishing House, Mumbai</li> <li>3. Uma Kapila (ed.) – Indian Economy Since Independence, Academic Foundation, Delhi</li> <li>4. Swapan Kr. Roy &amp; Jaydeb Sarkhel, <i>Bharater Arthaniti</i>, Book Syndicate Private Ltd.</li> <li>5. Debesh Mukherjee, <i>Samakalin Bharatiya Arthaniti</i>, New Central Book Agency Pvt. Ltd</li> <li>6. Jean Dreze and AmartyaSen - An Uncertain Glory: India and its Contradictions, Princeton University Press (2013)</li> <li>7. Mihir Rakshit - Macroeconomics of Post-Reform India (2011)</li> <li>8. Kaushik Basu and A. Maertens (Eds) - The New Oxford Companion to Economics in India, Oxford University Press (2013)</li> <li>9. L.M.Bhole and J.Mahakud - Financial Institutions and Markets: Structure, Growth &amp; Innovation (6th Edition, 2017)</li> </ol> <p>Online study material:</p> <ol style="list-style-type: none"> <li>1. Economic and Political Weekly, Various Issues.</li> <li>2. Govt. of India – Economic Survey, Various Years.</li> <li>3. Ghate,C. and S.Wright (2012). The ‘V-Factor’: Distribution, Timing and Correlates of the Great Indian Growth Turnaround. <i>Journal of Development Economics</i>, Vol.99, pp. 58-67.</li> <li>4. Ahluwalia,M.S (2000). State Level Performance Under Economic Reforms in India. Presented at the Centre for Research on Economic Development and Policy Reform Conference on Indian Economic prospects: Advancing Policy Reform, May 2000; Stanford University</li> <li>5. <a href="http://www.niti.gov.in/">http://www.niti.gov.in/</a></li> <li>6. <a href="https://www.sebi.gov.in/">https://www.sebi.gov.in/</a></li> </ol>		

**Economics**  
**UG 3rd Sem**



## Economics Major

Programme / Degree: BA	Year: Second	Semester: Third
<b>Subject: Economics (Major)</b> <b>Major 301</b>		
Course Code: V	<b>Course Title: Development Economics</b>	
Course Objectives	<ul style="list-style-type: none"> <li>▪ To equip students with the essential concepts and tools of development economics.</li> <li>▪ To make them understand the issues and concerns of economic development, and find insights into the theories of economic development.</li> <li>▪ To enabling the learners conceptual clarity, strengthening theoretical foundations and critical thinking.</li> </ul>	
Course Outcome	<p>The Course will help the learners to</p> <ul style="list-style-type: none"> <li>• Develop comprehensive understanding of the meaning, issues and theories of economic development.</li> <li>• Understand the concepts of poverty, inequality and development strategies, as well as characteristics of underdevelopment.</li> <li>• Conceptualize the issues of sustainable development and future strategies.</li> </ul>	
Credits: 04	Core Compulsory	
Max. Marks: 100	Min. Passing Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>UNIT-I:</b> <i>Economic Development – Concepts &amp; Measurements</i>	Economic growth and Economic Development; Measuring Economic Development – Income Measure, Basic Needs Approach, Physical Quality of Life Index, Human Development Index – Its alternative forms and critique; Comparing development trajectories across and within nations.	12
<b>UNIT-II:</b> <i>Macro Characteristics of Underdevelopment</i>	Basic theories of development – Adam Smith, David Ricardo, Malthus; Lewis theory of unlimited supplies of labour and its extension by Ranis-Fei; Harris-Todaro theory of rural-urban migration.	12
<b>UNIT-III:</b> <i>Poverty, Inequality &amp; Development Strategies</i>	Poverty – conceptual issues and measurements, functional effects; Inequality – conceptual and measurement issues (Lorenz curve, Gini-coefficient and Kuznets' inverted-U hypothesis); Stages of economic growth: Marx and Rostow; Vicious circle of poverty and the critical minimum effort hypothesis; Big push theory; Balanced vs. unbalanced growth, Choice of technique and investment criteria.	14
<b>UNIT-IV:</b> <i>Sustainable Development</i>	Concept of Sustainable development – weak and strong sustainability; Environment externalities and state regulations; Common property rights; Environmental accounting; Poverty and environment, Millennium Development Goals and Sustainable Development Goals, Agenda 2030 and their critical appraisal.	12

**Suggested Readings:**

1. Barro, R. & Xavier Sala-i-Martin, *Economic Growth*, The MIT Press
2. Basu, K., *Analytical Development Economics: The Less Developed Economy Revisited*, OUP
3. Hayami, Y. and Godo, Y., *Development Economics: From Poverty to Wealth of Nations*, Oxford University Press.
4. Meier G.M., *Leading Issues in Economic Development*, Oxford University Press, New Delhi, latest edition.
5. Ray, Debraj, *Development Economics*, Oxford University Press, latest edition.
6. Thirlwall, A.P., *Economics of Development: Theory and Evidence*. Palgarve Macmillan
7. Todaro Michael P & Smith Stephen C., *Economic Development*, Pearson
8. World Bank. *World Development Report*, Selected Years.

### Syllabus for Economics Major VI (Semester 3<sup>rd</sup>)

Programme/Class Degree: BA	Year: Second	Semester: 3 <sup>rd</sup>
<b>Subject: Economics (Major), Paper - VI</b> <b>Major 302</b>		
Course Code:	<b>Course Title: Indian Economic Policies</b>	
Course Objectives	The objective of course is to provides a comprehensive overview of India's economic policies since independence, with a focus on the rationale, impact, and effectiveness of these policies. The course will cover a wide range of topics, including industrial policy, agricultural policy, trade policy, fiscal policy, monetary policy, and social policy.	
Course Outcome	<ul style="list-style-type: none"> <li>The course will help to develop a comprehensive grasp of India's economic policy landscape, tracing its evolution from independence to the present day.</li> <li>It will help to articulate the underlying rationale behind the key economic policies implemented by the Indian government.</li> <li>It will help to analyse the impact of these policies on the Indian economy, examining both macroeconomic performance and distributional effects.</li> <li>It will help to evaluate the effectiveness of these policies in addressing India's economic challenges and achieving its development goals.</li> </ul>	
Credits: 04	Core Compulsory	
Full Marks: 100	Minimum Pass Marks: 40	
Unit	Topics	No. of Lectures
UNIT-I: Sectoral Policy & Sustainable Development	<ul style="list-style-type: none"> <li>Strategies of agricultural development in India; Agricultural price policy; Agricultural subsidy;</li> <li>Government's policy towards public sector; Deindustrialisation in India; New economic policy; Social security measures;</li> <li>Examining policy interventions for promoting sustainable development, addressing climate change, and promoting green industries</li> </ul>	12
UNIT-II: Fiscal Policy & Monetary Policy	<ul style="list-style-type: none"> <li>Public revenue and expenditure in India; Centre-state financial relation</li> <li>Recent monetary policy of Reserve Bank of India: Recent reforms in Indian money market and capital market; Demonetisation in India</li> </ul>	12
UNIT-III: Social Policy & Inclusive	<ul style="list-style-type: none"> <li>Addressing poverty, inequality and unemployment in India: policy measures, effectiveness, and challenges</li> <li>Education and health care policies and their contribution to human resource development</li> </ul>	12

Development		
UNIT-IV: Trade Policy & Global Integration	<ul style="list-style-type: none"> <li>India's foreign trade policy; Special Economic Zones; Policies of export promotion and import substitution; India's balance of payments: causes of deficits &amp; policy measures</li> <li>Globalisation of Indian economy; WTO and its impact on Indian economy</li> </ul>	12
<b>Suggested Readings:</b> <ol style="list-style-type: none"> <li>Isher Judge Ahluwalia &amp; Om Prakash Mathur - "Indian Economy: Issues and Policies", Sage Publications</li> <li>S. R. K. Rao - "Indian Economic Policy: An Analytical Framework." Oxford University Press</li> <li>World Bank - "India: An Economic Overview." World Bank, 2022.</li> <li>Gaurav Datt &amp; Ashwani Mahajan – “Indian Economy”, S. Chand &amp; Co. Delhi</li> <li>Mishra &amp; Puri – “Indian Economy”, Himalaya Publishing House, Mumbai</li> <li>Debesh Mukherjee – “Indian Economy Since Independence”, New Central Book Agency Pvt. Ltd</li> <li>Uma Kapila (ed.) – “Indian Economy Since Independence”, Academic Foundation, Delhi</li> <li>Government of India – “Economic Survey (Current Issues)”, Ministry of Finance, Government of India</li> <li>Jaydeb Sarkhel &amp; Seikh Selim – “<i>Bharitiya Arthaniti</i>”, Book Syndicate Private Ltd.</li> <li>Swapan Kr. Roy &amp; Jaydeb Sarkhel – “<i>Bharater Arthaniti</i>”, Book Syndicate Private Ltd.</li> <li>Debesh Mukherjee – “<i>Samakalin Bharatiya Arthaniti</i>”, New Central Book Agency Pvt. Ltd</li> </ol>		

### Syllabus for Economics Minor III (Semester 3<sup>rd</sup>)

Programme/Class Degree: BA	Year: Two	Semester: 3 <sup>rd</sup> <b>Minor 301</b>
<b>Subject: Economics (Minor)</b>		
Course Code:	<b>Course Title: Economic History of India and Basic Statistics</b>	
Course Objective	<ul style="list-style-type: none"> <li>▪ This course analyses and investigates the key aspects and knowledge of colonial history of Indian economy during the second half of British rule.</li> <li>▪ This course links directly to the course on India's economic development before independence.</li> <li>▪ To familiarize the students with the knowledge of basic Statistics that have become indispensable in the study of economic theory at the undergraduate level.</li> <li>▪ To impart the knowledge of Statistical tools in Economics to the learners and to equip them with quantitative techniques, as the use of statistical methods in social sciences is increasing over the years.</li> <li>▪ To teach Statistics so that students can easily comprehend and quantify the relationships among different variables to forecast future economic activities and business decision.</li> <li>▪ To introduce the students to the knowledge of collection and presentation of data in a scientific manner.</li> </ul>	
Course Outcome	<ul style="list-style-type: none"> <li>▪ The learners will gain knowledge about nature and status of the colonial economy of India.</li> <li>▪ The historical knowledge of Indian agriculture, industry and basic infrastructure during the British period will be learned by the students.</li> <li>▪ The knowledge on statistics will upgrade the quantitative skills among the students which will help them in their real life phenomena in an understandable and logical way.</li> <li>▪ Learning about basic statistics will provide the analytical foundations necessary for further study of a variety of multi-disciplines including Economics, Commerce, Political Science, Finance, Business Management and Data Analytics.</li> </ul>	

	<ul style="list-style-type: none"> <li>These tools are necessary for anyone seeking employment as an analyst, manager, planning, business decision making, policy making etc in the corporate world.</li> <li>This paper will provide the students an efficient means of constructing mental self-discipline and encourage logical reasoning and mental rigor.</li> </ul>	
Credits: 04	Core Compulsory	
Max. Marks: 100	Min. Passing Marks: 40	
Unit	Topics	No. of Lectures
UNIT-I: (British Rule and Indian Economy):	Colonialism— Meaning, Basic Features of Colonialism in India; Stages of British Rule in India; Consequences of the British Rule; Commercialization of Indian Agriculture; Deindustrialization: Features, Causes & Effects; The Decline of Handicrafts in India; Economic Drain.	08
UNIT-II: (Aspects of British Imperial Policy):	Land Tenure System & Agricultural Policy— Land Revenue Arrangement; The Zamindari System, The Permanent Settlement, Ryotwari System, Mahalwari System or Communal System Irrigation System in British India; India's Railways— Old & New Guarantee System, Effects of Railway Development; Railway vs Irrigation. Problems of Some Large scale Industries— Cotton Textile, Jute, Iron and Steel; Managing Agency System	10
UNIT-III: (Basic Concepts & Frequency Distribution):	Basic Concepts—Meaning of Statistics and its importance in Economics; Variable and Attribute; Collection and Presentation of Data; Primary and Secondary Data; Questionnaires; Population and Sample; Classification; Tabulation Frequency Distribution— Meaning; Frequency distribution of an attribute, discrete and continuous variables; Grouped and ungrouped frequency distribution; useful terms associated with grouped frequency distribution; Construction of frequency distribution ; Cumulative Frequency Distribution; Histogram, Step Diagram, Cumulative frequency Polygon or Ogive	11

	Charts and Diagrams— Types of Charts and Diagram; Line Diagram, Logarithmic Diagram, Bar Diagram, Pie Diagram, Pictogram—their uses, advantages and Disadvantages; Frequency Curve	
UNIT-IV: (Central Tendency, Dispersion & Correlation-Regression )	Measures of Central Tendency— Meaning and importance; AM, GM, HM, Median, Mode—Definition, Properties; Methods of calculation; Advantages and Disadvantages of Mean, Median and Mode.  Measures of Dispersion— Meaning and importance; Range, Quartile Deviation, Mean Deviation, Standard Deviation— meaning, properties, Relationship; Methods of calculation; Coefficient of variation; Moments, Skewness and Kurtosis  Correlation and Regression— Concept of Bivariate data and Bivariate frequency distribution, Scatter Diagram; Pearson's Linear or Simple correlation coefficient and its properties, Calculation of Simple correlation coefficient; Regression and its properties.	11

#### **Suggested Readings for Indian Economic History:**

- 1) Jaydeb Sarkhel and Sekh Selim (2022) — Bharati Arthonity, Book Syndicate (P) Ltd
- 2) Debesh Mukharjee— *Indian Economic History*, New Central Book Agency (P) Ltd.
- 3) Ranesh Roy— *Oupanibeshik Bharater Rashtriya Arthaniti*, Progressive Publishers.
- 4) Barun Chakraborty— *Bharater Sankhipta Arthanaitik Itihas*, Pashchimbanga Rajya Pustak Parsad.
- 5) Basudev Chatterjee— *Trade, Tariffs and Empire*, Oxford University Press
- 6) Dhiresb Bhattacharjee— *Bharater Samkshipta Itihas*, Pashchimbanga Rajya Pustak Parsad.
- 7) Dharma Kumar – *The Cambridge Economic History*. Orient Longman, New Delhi.
- 8) G. Kaushal— *Economic History of India (1757-1966)*, Kalyani Publishers.
- 9) Irfan Habib— *Bharater Arthonity (1858-1914)*, Pashchimbanga Rajya Pustak Parsad.
- 10) J. Krishnamurty—Occupational Structure, in Dharma Kumar (Editor), *The Cambridge Economic History of India*, Vol. II, 2005.
- 11) R C Dutt— *The Economic History of India under Early British Rule*. Routledge, London
- 12) S. Desai. & N. Bhalerao – *Economic History of India*, Himalaya Publishing House
- 13) Sumit Sarkar— *Modern India 1885-1947*. Pearson, India
- 14) Tirthankar Roy— *The Economic History of India (1857-1947)*, Oxford University Press.

#### **Suggested Readings for Statistics:**

- 1) Jaydeb Sarkhel & Santosh Kumar Dutta—*An Insight into Statistics*, Book Syndicate Private Limited
- 2) Jaydeb Sarkhel & Santosh Kumar Dutta—*Rashibighyaner Bhumika*, Book Syndicate Private Limited.
- 3) N.G. Das— *Statistical Methods (Volume-I & II)*, The McGraw-Hill Companies.
- 4) S. C. Gupta—Fundamentals of Statistics, Himalaya Publishing House, Delhi



Programme/Class Degree:	Year: Second	Semester: Third
<b>Subject: Economics (Elective)</b>		
Course Code:	<b>Course Title: Elementary Economics - II</b>	
Course Objective:	To give an understanding about the <ul style="list-style-type: none"> <li>To understand the basic knowledge about Economics</li> </ul>	
Course Outcome:	<ul style="list-style-type: none"> <li>Students will learn about the basic concepts about economics and especially Macro Economics</li> <li>Students will learn about the SDGs</li> </ul>	
Credits:	03	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I:	An overview of Indian Economy, Sectoral aspects of Indian Economy, Challenges in Indian Economy, Indian Economy in Global context	10
UNIT-II:	Concept of National Income and related aggregates, Measurement of National Income, Concept of Consumption, Investment and Savings	10
UNIT-III:	Concept of Fiscal and Monetary Policy and their instruments, Concepts of Govt. Revenue and its types, Concept of Govt. Expenditure, Govt. Budget	10
UNIT-IV:	Environment and Sustainable Development, Concept of green GDP, Sustainable Development Goals	10
<b>Suggested Readings:</b> 1. PA Samuelson: Foundations of Economics, 9th edition, Pearson. Online study material:		
<b>Suggested Continuous Evaluation Methods:</b> Assignment / Test / MCQ Assignment /Test/Quiz(MCQ)/Presentations		

Programme/Class Degree:	Year: Second	Semester: Third
<b>Subject: Economics (Interdisciplinary)</b>		
Course Code:	<b>Course Title: Elementary Economics - II</b>	
Course Objective:	To give an understanding about the <ul style="list-style-type: none"> <li>To understand the basic knowledge about Economics</li> </ul>	
Course Outcome:	<ul style="list-style-type: none"> <li>Students will learn about the basic concepts about economics and especially Macro Economics</li> <li>Students will learn about the SDGs</li> </ul>	
Credits:	03	
Max. Marks: 100	Min. Passing Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I:	An overview of Indian Economy, Sectoral aspects of Indian Economy, Challenges in Indian Economy, Indian Economy in Global context	10
UNIT-II:	Concept of National Income and related aggregates, Measurement of National Income, Concept of Consumption, Investment and Savings	10
UNIT-III:	Concept of Fiscal and Monetary Policy and their instruments, Concepts of Govt. Revenue and its types, Concept of Govt. Expenditure, Govt. Budget	10
UNIT-IV:	Environment and Sustainable Development, Concept of green GDP, Sustainable Development Goals	10
<b>Suggested Readings:</b> 1. PA Samuelson: Foundations of Economics, 9th edition, Pearson. Online study material:		
Suggested Continuous Evaluation Methods: Assignment / Test / MCQ Assignment /Test/Quiz(MCQ)/Presentations		

**Economics**  
**UG 4th Sem**

**Syllabus for Economics Major VII (Semester 4<sup>th</sup>)****Major 401**

Programme/Class Degree: BA	Year: Second	Semester: 4 <sup>th</sup>
<b>Subject: Economics (Major), Paper - VII</b>		
Course Code:	<b>Course Title: Statistical Methods – I</b>	
Course Objective:	<ul style="list-style-type: none"> <li>▪ To impart the knowledge of Statistical tools in Economics to the learners</li> <li>▪ To introduce the students to the knowledge of collection and presentation of data in a scientific manner</li> <li>▪ To teach Statistics so that students can easily comprehend and quantify the cause and effect relationships among different variables.</li> </ul>	
Course Outcome:	<ul style="list-style-type: none"> <li>▪ The learners will learn about the basic concepts of Statistics which are minimum requirement for studying Economics and also for social science research.</li> <li>▪ This course introduces the student to collection and presentation of data. It also discusses how data can be summarized and analyzed for drawing statistical inferences.</li> <li>▪ The course will upgrade the quantitative skills among the students which will help them in their real life phenomena in an understandable and logical way.</li> <li>▪ These tools are necessary for anyone seeking employment as an analyst, manager, planning, business decision making, policy making etc in the corporate world.</li> </ul>	
Credits: 04		
Full Marks: 100	Minimum Pass Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I: Basic Concepts	Meaning of Statistics and its importance in Economics; Variable and Attribute; Collection and Presentation of Data; Primary and Secondary Data; Questionnaires; Population and Sample; Classification; Tabulation Types of Charts and Diagram; Line Diagram, Logarithmic Diagram, Bar Diagram, Pie Diagram, Pictogram - their uses, advantages and Disadvantages; Frequency Curve	08
UNIT-II: Frequency Distributions & Measures of Central Tendency	Meaning; Frequency distribution of an attribute, discrete and continuous variables; Grouped and ungrouped frequency distribution; useful terms associated with grouped frequency distribution; Construction of frequency distribution ; Cumulative Frequency Distribution; Histogram, Cumulative frequency Polygon or Ogive Measures of Central Tendency: Meaning and importance; AM, GM, HM,	10

	Median, Mode—Definition, Properties; Methods of calculation; Advantages and Disadvantages of Mean, Median and Mode.	
UNIT-III: Dispersion, Correlation & Regression	Measures of Dispersion: Meaning and importance; Range, Quartile Deviation, Mean Deviation, Standard Deviation— meaning, properties, Relationship; Methods of calculation; Coefficient of variation Basic concepts of Moments, Skewness and Kurtosis Correlation and Regression: Concept of Bivariate data and Bivariate frequency distribution, Scatter Diagram; Pearson's Linear or Simple correlation coefficient and its properties, Calculation of Simple correlation coefficient; Regression and its properties.	12
UNIT-IV: Index Numbers	Index Numbers: Meaning of Index Numbers, Problems in construction of Index Numbers, Methods of construction of Index Numbers, Quantity Index Numbers Tests of Index Numbers, Chain Base Method, Cost of Living Index Numbers Base shifting, Splicing, Deflation, Errors in Index Number.	10
<b>Suggested Readings:</b> 1) Jaydeb Sarkhel & Santosh Kumar Dutta— <i>An Insight into Statistics</i> , Book Syndicate Private Limited 2) Jaydeb Sarkhel & Santosh Kumar Dutta— <i>Rashibighyaner Bhumika</i> , Book Syndicate Private Limited. 3) N.G. Das— <i>Statistical Methods (Volume-I &amp; II)</i> , The McGraw-Hill Companies. 4) S. C. Gupta—Fundamentals of Statistics, Himalaya Publishing House, Delhi		
Suggested Continuous Evaluation Methods: Assignment / Test / MCQ  Assignment /Test/Quiz(MCQ)/Presentations		

### Syllabus for Economics Major VIII (Semester 4<sup>th</sup>)

Programme/ Class Degree: BA	Year -2 : Semester-IV		Major 402
Subject: Economics (Major) Paper-VIII			
Course Code:	Course Title: Money, Banking and Finance		
Course Objective:	<ul style="list-style-type: none"><li>• To impart the knowledge about the concept of money, banking, and theories of money.</li><li>• To analyze the operation of Monetary Policy of India</li><li>• To analyze the mode of Digital Payments in India</li><li>• To study the role of Central Bank in the development of the country.</li></ul>		
Course Outcome:	<ul style="list-style-type: none"><li>• To understand the different aspects of demand for money and supply of money.</li><li>• To examine the role and relevance of Banking.</li><li>• To understand the progress of e-payment mechanism in India.</li><li>• To understand the working of the monetary policy of the Central Bank of a Country</li><li>• To understand the concepts of investment, financing and role of financing</li></ul>		
Credits: 04			
Full Marks: 100	Minimum Pass Marks: 40		
Unit	Topics	No. of Lectures	
Unit-I: Money	Concept of Money: Forms, Functions and Significance of Money; Concept of Monetary Standards: Metallic Standard, Gold Standard and Paper Standard;  Supply of Money: Sources of Money Supply, Measures of Money Supply in India, Concepts of High Powered Money and Money Multiplier – Determinants of Money Supply.  Demand for Money: Fisher’s Version of Cash Transactions Approach, Cambridge Version of Cash Balances Approach, Keynesian Approach.	10	
Unit-II: Banking	Banking: Meaning and Types of Banks, Types of Deposits – Savings, Current, Fixed and Recurring.  Commercial Banking: Functions, Process of Credit Creation and Its Limitations, Credit Multiplier.  Modern Functions of Banks (Concepts): Internet Banking, Mobile Banking -Types of Cards: Credit Cards, Debit Cards, Smart Cards, ATM Cards - Personal Identification Number (PIN); Electronic Fund Transfer - Electronic Clearing Services, NEFT, RTGS, and IFSC.	10	

Unit-III: Central Banking	<p>Concepts: Central Bank, Difference between Central bank and Commercial Bank, Bank Rate, Open Market Operations, Cash Reserve Ratio, Statutory Liquidity Ratio, Credit Ceiling, Moral Suasion, Repo Rate, Reverse Repo Rate.</p> <p>Functions of Central Bank, Quantitative and Qualitative Methods of Credit Control.</p> <p>Monetary Policy: Instruments of Monetary Policy of the Central Bank of a Country; Monetary Policy during Inflation; Current Monetary Policies Adopted by Reserve Bank of India (RBI).</p>	10
Unit-IV: Finance	<p>Role of financial markets, Financial instruments, Basic theory of interest; discounting and present value; Asset pricing- internal rate of return; evaluation criteria; fixed-income securities; bond prices and yields; interest rate sensitivity</p> <p>Random asset returns; portfolios of assets; portfolio mean and variance; feasible combinations of mean and variance; mean-variance portfolio analysis, Concept of Stock market and derivatives, Corporate Finance</p>	10
<p>Suggested Readings:</p> <ol style="list-style-type: none"> <li>1. Suraj B. Gupta, <i>Monetary Economics: Institutions, Theory and Policy</i>, S. Chand &amp; Co., New Delhi.</li> <li>2. D N Dwivedi, <i>Macroeconomics: Theory and Policy</i>, Tata McGraw-Hill Publishing Company Limited, New Delhi.</li> <li>3. Thomas E. Copeland, J. Fred Weston and Kuldeep Shastri, <i>Financial Theory and Corporate Policy</i>, Prentice Hall, 4th edition, 2003.</li> <li>4. D. M. Mithani, <i>Money, Banking, International Trade and Public Finance</i>, Himalaya Publishing House, New Delhi.</li> <li>5. R. R. Paul, <i>Monetary Economics</i>, Kalyani Publishers, New Delhi.</li> <li>6. Panchanan Das, Anindita Sengupta, Swapan Samanta, <i>Economics II</i>, Oxford University Press, New Delhi.</li> <li>7. Joydeb Sarkhel, <i>Adhunik Arthanitir Bhumika</i>, Vol.2, Book Syndicate Private Limited, Kolkata.</li> </ol>		

**Syllabus for Economics Minor IV (Semester 4<sup>th</sup>)****Minor 401**

Programme/Class Degree: BA	Year: Second	Semester: 4 <sup>th</sup>
<b>Subject: Economics (Minor)</b>		
Course Code:	<b>Course Title:</b> Intermediate Microeconomics	
Course Objective:	<ul style="list-style-type: none"> <li>To introduce the students to Utility Analysis.</li> <li>To introduce the theory of production- isoquants, isocosts, producer equilibrium.</li> <li>To familiarize the students with the theory of cost, relation between marginal cost and average cost, derivation of short run and long run average cost curve.</li> <li>To familiarize the students with the working and nature of markets and analysis of factor market.</li> </ul>	
Course Outcome:	<ul style="list-style-type: none"> <li>The students get familiarized with the basics of Utility Analysis</li> <li>The students are able to understand the theory of production- isoquants, isocosts, producer equilibrium.</li> <li>The students learn and understand the theory of cost, relation between marginal cost and average cost, derivation of short run and long run average cost curve.</li> <li>The students come to know about the concept of market, its different structures and analysis of factor market.</li> </ul>	
Credits: 03		
Full Marks: 100	Minimum Pass Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I: Introduction to Utility Analysis	Cardinal & Ordinal Utility; Law of Diminishing Marginal Utility; Marshallian Utility Analysis; Derivation of Demand Curve. Concepts & Properties of Indifference Curve & Budget Line; consumer's equilibrium. Decomposition of Price effect into Income and Substitution effect; Ordinary & Compensated Demand curves; Price consumption curve and Giffen good; Income consumption curve and Engel curve.	10
UNIT-II: Introduction to Production & Cost	Concepts & Properties of Isoquant & Isocost Line; Concept of MRTS; Producer's Equilibrium; Elasticity of substitution; Ridge Lines & Economic Zone; Expansion Path of a Firm.  Cost Minimization and output Maximization; Concept of Production Possibility Curve & MRT.  Cost of Production: Social, Opportunity, Economic, Implicit, Explicit & Real; Concepts & Classifications of Economic	10



	Costs; Relation between MC & AC; Derivation of SAC & LAC.	
UNIT-III: Market and its types	Perfect competition: Features, Price and output determination under perfect competition (Short & Long Run), Imperfect competition- Monopoly, Price and output determination under monopoly (Short & Long Run), Monopolistic competition- Features, Oligopoly- Features	10
UNIT-IV: Analysis of Factor Market	Determination of Rent: Ricardian Theory and Modern Theory; Concept of quasi-rent Money wage and real Wage; Marginal Productivity Theory of Wages Theory of Interest: Gross Interest and Net Interest; Three Components of Demand for Money and Keynesian Liquidity Preference Theory; Liquidity Trap Concepts of gross and Net profits; Normal and Supernormal Profits; Distinction between Risk and Uncertainty	10
<b>Suggested Readings:</b> <ul style="list-style-type: none"> <li>▪ Koutsoyiannis, Modern Micro Economics, Macmillan, London.</li> <li>▪ H.L. Ahuja, <i>Advanced Economic Theory</i>, S.Chand &amp; Company Ltd.</li> <li>▪ M.L Jhingan, <i>Micro Economic Theory</i>, Vrinda Publications Pvt. Ltd.</li> <li>▪ Sampat Mukherjee, <i>Analytical Microeconomics</i>, New Central Book Agency (P) Ltd.</li> <li>▪ Joydeb Sarkhel, <i>Micro Economic Theory</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ Montosh Chakraborty, <i>Byastik Arthaniti (Moulik)</i>, Dhakeswary Library, Dhaka</li> <li>▪ Sampat Mukherjee &amp; Debesh Mukherjee, <i>Samakalin Arthabidya</i>, New Central Book Agency (P) Ltd.</li> </ul>		
Suggested Continuous Evaluation Methods: Assignment / Test / MCQ Assignment /Test/Quiz(MCQ)/Presentations		

Programme/ Class : UG	Year: Second	Semester: IV
<b>Subject: Economics (Interdisciplinary)</b> <span style="float: right;"><b>ID Eco 4th Sem</b></span>		
Credits: 03	<b>Course Title: Elementary Economics-III (Indian Economy)</b>	
Course Objectives	The objectives of the course is to provide a comprehensive understanding of the structure, performance, and challenges of the Indian economy	
Course Outcome	Upon completion of this course, students will be able to: <ul style="list-style-type: none"> <li>• Demonstrate knowledge of the key sectors of the Indian economy</li> <li>• Analyse the impact of economic reforms</li> <li>• Identify and analyse current economic issues and challenges</li> <li>• Articulate informed opinions on economic policy matters</li> <li>• Develop critical thinking and analytical skills in the context of Indian economic issues</li> </ul>	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I: Overview of the Indian Economy	Indian Economy: Features of underdevelopment National Income of India: Trends and sectoral composition Indian population: Growth, composition & population policies Poverty and Unemployment in India: Estimates, trends & government policies	10
UNIT-II: Agriculture & Industry	Agriculture: Importance; Trends in production & productivity; Problems of Indian agriculture; Green Revolution; Land reforms Industry: Growth; New Economic Policy; Disinvestment; Small & cottage industries	12
UNIT-III: Indian Financial System	Indian Public Finance: Features of Indian tax system; Sources of tax revenue; Public expenditure; Deficits in Indian budget; Centre-state financial relation Banking System in India: Role of commercial banks; Role of central bank; Monetary policy of Reserve Bank of India; Securities & Exchange Board of India (SEBI)	12
UNIT-IV: External Sector	Foreign Trade: Composition and direction of India's foreign trade; Balance of payment crisis; India's foreign trade policy; WTO and its impact on Indian economy International Cooperation: FDI & FII; Foreign aid to India; Multinational Corporations	12
<b>Suggested Readings:</b> <ol style="list-style-type: none"> <li>1. Gaurav Datt &amp; Ashwani Mahajan – “Indian Economy”, S. Chand &amp; Co. Delhi</li> <li>2. Mishra &amp; Puri – “Indian Economy”, Himalaya Publishing House, Mumbai</li> <li>3. Debesh Mukherjee – “Indian Economy Since Independence”, New Central Book Agency Pvt. Ltd</li> </ol>		

### Syllabus for Economics Major IX (Semester 5th)

Programme /Class Degree: BA	Year: Third	Semester: 5 <sup>th</sup>
<b>Subject: Economics (Major), Paper IX</b>		
Course Code:	<b>Course Title: Public Finance</b>	
Course Objective	<ul style="list-style-type: none"> <li>▪ The goal of public economics or public finance is to understand the proper role of the government in the economy from the points of view of economic efficiency and equity.</li> <li>▪ This course involves a formal analysis of government taxation and expenditures as well as public debt.</li> <li>▪ The subject encompasses a host of topics including public goods, market failures and externalities.</li> </ul>	
Course Outcome	<ul style="list-style-type: none"> <li>▪ The Course will help to develop comprehensive understanding of theories of public finance and their applications.</li> <li>▪ The Course will thoroughly comprehend concepts and theories related to Public policy and rational choice.</li> <li>▪ The students will have comprehensive understanding of theories of public expenditure and principles of taxation.</li> <li>▪ The course demonstrates the role of government to correct market failures and possible advantage of public finance.</li> <li>▪ The course will help to understand the possible burden, benefits and distribution of taxes among various classes of people.</li> </ul>	
Credits: 04	Core Compulsory	
Full Marks: 100	Minimum Pass Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>UNIT-I:</b> (Introduction to Public Economics)	Nature, Scope & importance of Public Finance; Public Finance & Private Finance; Public goods & Private goods; Principle of Maximum Social Advantage; Concept, Causes of & remedies to market failure; Lindahl's Model of Public goods; Externalities	12
<b>UNIT-II:</b> (Taxation, Public Revenue & Expenditure)	Sources & classification of Public Revenue; Taxation: Types, Principles, Canons & Burden, Impact & Incidence; Difference, Merits & Demerits of Direct & Indirect Taxes;	14

	VAT & GST; Benefit Principle & Ability to Pay Principle of Taxation. Importance, Objectives & canons of Public Expenditure; Wagner's Law of Public Expenditure	
<b>UNIT-III:</b> (Public Debt)	Public Debt: Meaning, Types, Sources, Objectives & Economic Effects; Public Debt & Private Debt; Burden of internally & externally held Public Debt; Public Debt Management	12
<b>UNIT-IV:</b> (Fiscal Policy & Public Budget)	Fiscal Policy: Meaning, Instruments & Objectives of Fiscal Policy; Role of Fiscal Policy in a Developing Economy; Effects & Limitations of Fiscal Policy; Difference between Fiscal Policy & Monetary Policy Public Budget: Meaning, Types & Objectives; Balanced Budget & its Multiplier	14
<b>Suggested Readings:</b> <ol style="list-style-type: none"> <li>1. Bagchi, Amaresh (ed), <i>Readings in Public Finance</i>, Oxford University Press.</li> <li>2. Bhatia H.L., <i>Public Finance</i>, Vikas Publishing House</li> <li>3. Ghosh Ambar &amp; Ghosh Chandana, <i>Economics of Public Sector</i>, PHI Learning Private Limited, New Delhi</li> <li>4. Houghton, E. W. (Ed.) (1988), <i>Public Finance</i>, Penguin, Baltimore.</li> <li>5. Jha, R. (1998), <i>Modern Public Economics</i>, Routledge, London.</li> <li>6. Lekhi R.K. &amp; Singh J., <i>Public Finance</i>, Kalyani Publishers</li> <li>7. Mithani, D. M. (1998), <i>Modern Public Finance</i>, Himalaya Publishing House. Mumbai.</li> <li>8. Mukherjee Debesh, <i>Antarjatic Arthaniti o Sarkari Arthaniti</i>, New Central Book Agency, Kolkata</li> <li>9. Musgrave, R. A. &amp; Musgrave P. B. (2017), <i>Public Finance in Theory and Practice</i>, McGraw Hill.</li> <li>10. Rosen H., Gayer T. (2009), <i>Public Finance</i>, 9th ed., McGraw-Hill/Irwin.</li> <li>11. Singh S. K., <i>Public Finance in Theory &amp; Practice</i>, S. Chand &amp; Company, Delhi</li> <li>12. Stiglitz Joseph E. (2000), <i>Economics of the Public Sector</i>, W.W. Norton &amp; Company, 3rd edition, 2000.</li> </ol>		

### Syllabus for Economics Major

Programme/ Degree: B.A.		Year -3 : Semester-V	
<b>Subject: Economics (Major-X) Paper-X</b>			
Course Code: EC108C	Course Title: Mathematics for Economics		
Course Objective:	<ul style="list-style-type: none"><li>• To understand the knowledge of quantitative techniques;</li><li>• To equip students with the mathematical approaches necessary for a proper understanding of the discipline;</li><li>• To train students to learn the art of economic modeling.</li></ul>		
Course Outcome:	<ul style="list-style-type: none"><li>• Understand the quantitative techniques of economic analysis;</li><li>• Learn the mathematical approaches necessary for a proper understanding of the discipline;</li><li>• Get training in the art of economic modeling.</li></ul>		
Credits:	04		
Max. Marks: 100	Min. Pass Marks: 40		
Unit	Topics	No. of Lectures	
Unit-I: Preliminaries	Concepts: Variables, Constants, and Parameters; Equations and Identities; Sets - Use of Elementary Set Notations; Relations and Functions.  Functions: Types of Functions (Constant, Linear, Quadratic, Cubic, Rational, Exponential, logarithmic) - Graphs of the Functions; Illustration of Functions in Economics.	8	
Unit-II: Elementary Linear Algebra	Matrices: Concept, Matrix Operations (Addition, Subtraction, Multiplication of Matrices), Types of Matrix (Null, Square, Transpose, Identity, Inverse Matrices), Rank of a Matrix.  Determinants: Definition, Evaluating Determinants of a (2×2) and (3×3) Matrix; Minors and Cofactors; Concept of Non-singularity.  Solution for a simultaneous Linear Equation System by using Matrix Inversion method and Crammer’s Rule (Illustrations of the Economic Application to Simple Market Model and National Income Model).	10 (+10 tutorial)	
Unit-III: Differential Calculus	Concept of Limit, Continuity and Differentiability of a Function. Rate of Change and Derivative; Derivative and Slope of a Curve; Derivatives of Algebraic Functions (Constant, Power, Sum-Difference, Product and Quotient Rule, Implicit and Explicit functions, Exponential and Logarithmic functions), Illustrations of the Application – Finding Marginal and Average Functions; Relationship between Total, Average and Marginal Functions; Elasticity.  Chain Rule; Partial Derivative; Application to Simple Market Model and National Income Model; Successive Derivative up to Second Order.	14	

	Maxima and Minima Concepts; Total Derivative; Concept of Optimization; Concavity and Convexity of a Function; Unconstrained Optimization; Use of Lagrange Multiplier in Constrained Optimization with Equality Constraints; Application of Cost, Revenue and Profit in perfect Competition and Monopoly Market.	
Unit-IV: Integral Calculus	Indefinite Integration of different types of Functions and Economic Applications – from Marginal Function to Total Function; Definite Integration of simple Algebraic Functions.  First order Differential Equations and Difference Equations – Concept with Example.	10
<p>Suggested Readings:</p> <ol style="list-style-type: none"> <li>1. Alpha C. Chiang, Kevin Wainwright: Fundamental Methods of Mathematical Economics, McGraw Hill, New Delhi.</li> <li>2. Taro Yamane: <i>Mathematics for Economists: An Elementary Survey</i>, PHI Learning Pvt. Ltd., New Delhi.</li> <li>3. Baruah, Srinath: Basic Mathematics and its Application in Economics, Trinity Publishers, New Delhi</li> <li>4. Dowling, Edward.T: Mathematics for Economists, Schaum's Outline Series, McGrawhill Book Company</li> </ol>		

### Syllabus for Economics Major

Programme/Degree: BA	Year: Third	Semester: V
<b>Subject: Economics (Major) Paper- XI</b>		
Course Code:	<b>Course Title: Economics of Growth and Environment</b>	
Course Objectives	<ul style="list-style-type: none"> <li>▪ To equip the learners with the vital concepts and tools of growth economics and prepare them to understand what makes economic progress persist.</li> <li>▪ To make them understand the issues and concerns of economic growth through insights on the theories and models of economic growth.</li> <li>▪ To enabling the learners conceptual clarity, theoretical foundation and critical thinking in growth, environment and resource economics.</li> </ul>	
Course Outcome	<p>The Course will help the learners to</p> <ul style="list-style-type: none"> <li>• Develop comprehensive understanding of the meaning and theories of economic growth, importance of natural resource in economics and its management.</li> <li>• Comprehend the issues and challenges of economic growth and sustainable development.</li> <li>• Become familiar with the approaches of growth and resource economics.</li> <li>• Understand the issues of market failures and valuation of environmental resources.</li> </ul>	
Credits: 04	Core Compulsory	
Max. Marks: 100	Min. Passing Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>UNIT-I: Basics of Economic Growth</b>	Concept of growth, measurement issues; factors influencing growth - human capital and demographic characteristics, Harrod's model of growth, Domar's model of growth, Kaldor theory of Distribution	12
<b>UNIT-II: Economic Growth Models</b>	Solow's neoclassical model of growth; Technical progress: Hicks-neutral, Harrod-neutral, Solow-neutral Technical progress; Endogenous growth models (innovation, imitation and growth): scale and non-scale economies and uneven growth	14
<b>UNIT-III: Environment &amp; Development</b>	Environment-Economy Interlinkage, Poverty, population and environmental degradation; Environmental Regulations – History, Design, Property Rights and Coasean Bargaining Problem, Domestic Environmental Policy: Indian Experience, Pigouvian taxes and subsidies; Basic concepts of Environmental valuation	12
<b>UNIT-IV: Resource Economics</b>	Classification of natural resources - Renewable resources (growth curve and rate of exploitation) and Non-renewable resources (optimal extraction rule); Resource Taxonomy, Managing Exhaustible Resources, Managing Renewable Resources, Market, Free Access and Common Property Resources, Definition of Sustainable Development, Paradigms of Development, Indicators of sustainable development, Sustainable Accounting, Integrated Environmental Accounting; Environmental Kuznets' Curve hypothesis – theory and empirical evidence.	12

**Suggested Readings:**

1. Allen. V. Kneese. *Natural Resource Economics: Selected Papers of Allen V. Kneese (New Horizons in Environmental Economics series)*, Edward Elgar Publishing Ltd
2. Barro, R. & Xavier Sala-i-Martin, *Economic Growth*, The MIT Press
3. Bhattacharya R. N. *Environmental Economics: An Indian Perspective*, Oxford University Press, India
4. G. Hardin. *The Tragedy of the Commons*, Reprinted in U. Sankar, ed. *Environmental Economics*, Oxford University Press
5. Kolstad, C. D. *Intermediate Environmental Economics*, Oxford University Press
6. Mankiw, N. Gregory. *Principles of Macroeconomics*, South-Western Cengage Learning
7. N. Hanley, J. Shogren and B. White. *Introduction to Environmental Economics*, CUP
8. Perman, R. Et Al., *Natural Resource and Environmental Economics*, 4<sup>th</sup> Edition, Addison Wesley, 2011
9. Sengupta R. *Ecology and Economics: An Approach to Sustainable Development*, Oxford University Press



Programme/Class Degree: BA	Year: Third	Semester: Fifth
<b>Subject: Economics (Major)</b>		
Course Code:	<b>Course Title: Economic History of India</b>	
Course Objective	<ul style="list-style-type: none"> <li>▪ This course analyses and investigates the key aspects and knowledge of colonial history of Indian economy during the second half of British colonial rule.</li> <li>▪ This course links directly to the course on India's economic development before independence.</li> </ul>	
Course Outcome	<ul style="list-style-type: none"> <li>▪ The course develops critical analytical skills and exposes learners to understanding the intricacies of India's economic, political and social developments in the colonial times.</li> <li>▪ The learners will gain knowledge about nature and status of the colonial economy of India.</li> <li>▪ The performance of Indian agriculture and industry during the British period will be learned by the students.</li> <li>▪ The history of Indian currency, evolution of irrigation and railways infrastructure, drain of wealth as well as international trade and tax system during the colonial period will be better understood.</li> </ul>	
Credits: 04	Core Compulsory	
Max. Marks: 100	Min. Passing Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>UNIT-I:</b> (Colonial India: Background and Introduction)	Colonialism-Meaning, Basic Features of Colonialism in India; Stages of British Rule in India; Consequences of the British Rule on agriculture, industry and trade	08
<b>UNIT-II:</b> (Agricultural Sector)	Commercialization of Indian Agriculture— Concept, Importance and Effect Land Tenure System & Agricultural Policy— Land Revenue Arrangement; The Zamindari System, The Permanent Settlement, Ryotwari System, Mahalwari System or Communal System Irrigation System in British India; India's Railways— Old & New Guarantee System, History of Its Extension, Economic Consequences; Policy, Effects of Railway Development; Railway vs Irrigation. The Great Depression and Indian Agriculture.	11
<b>UNIT-III:</b> (Industrial Sector)	Deindustrialization: Features, Causes & Effects; The Decline of Handicrafts in India; Theory of Economic Drain Problems of Some Large scale Industries - Cotton Textile, Jute, Iron	11

	and Steel; Managing Agency System The Great Depression and Indian Industry	
<b>UNIT-IV:</b> (Service Sector)	History of Indian Currency— Commercial Policy; The Policy of Discriminating Protection. Foreign Trade— Introduction; Colonial Pattern of Trade; Imperial Preference; Development of India's Trade Union Movement; The Great Depression and Indian Foreign Commerce Indian Tax System and Policy during British period	10

**Suggested Readings:**

- 1) Ranesh Roy— *Oupanibeshik Bharater Rashtriya Arthaniti*, Progressive Publishers.
- 2) Jaydeb Sarkhel and SekhSelim (2022) — Bharatio Arthonity, Book Syndicate (P) Ltd
- 3) Debesh Mukharjee— Indian Economic History, New Central Book Agency (P) Ltd.
- 4) Barun Chakraborty— *Bharater Sankhipta Arthanaitik Itihas*, Pashchimbanga Rajya Pustak Parsad.
- 5) Basudev Chatterjee—*Trade, Tariffs and Empire*, Oxford University Press
- 6) Dhiresh Bhattacharjee—*Bharater Samkshipta Itihas*, Pashchimbanga Rajya Pustak Parsad.
- 7) Dharma Kumar –*The Cambridge Economic History*. Orient Longman, New Delhi.
- 8) G. Kaushal—*Economic History of India (1757-1966)*, Kalyani Publishers.
- 9) Irfan Habib— *Bharater Arthonity (1858-1914)*, Pashchimbanga Rajya Pustak Parsad.
- 10) J. Krishnamurty—Occupational Structure, in Dharma Kumar (Editor), *The Cambridge Economic History of India*, Vol. II, 2005.
- 11) R C Dutt—*The Economic History of India under Early British Rule*. Routledge, London
- 12) S. Desai. & N. Bhalerao—*Economic History of India*, Himalaya Publishing House
- 13) Sumit Sarkar—*Modern India 1885-1947*. Pearson, India
- 14) Tirthankar Roy—*The Economic History of India (1857-1947)*, Oxford University Press.

Programme/Class Degree: BA	Year: Third	Semester: Fifth
<b>Subject: Economics (Minor)</b>		
Course Code:	<b>Course Title: Intermediate Macroeconomics</b>	
Course Objective	<ul style="list-style-type: none"> <li>• To provide an understanding of macroeconomic theories beyond the introductory level.</li> <li>• To develop analytical skills to interpret macroeconomic problems and policies.</li> <li>• To equip students from both Economics and non-Economics backgrounds with accessible yet comprehensive content.</li> </ul>	
Course Outcome	By the end of this course, students will be able to: <ul style="list-style-type: none"> <li>• Explain and analyze key macroeconomic indicators.</li> <li>• Understand macroeconomic models and their policy implications.</li> <li>• Apply theoretical knowledge to real-world macroeconomic issues.</li> </ul>	
Credits:	4 Credits	
Max. Marks:	100	
Keywords	Effective Demand, Consumption Function, Investment Multiplier, Liquidity Preference, Trade Cycle	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I: Theory of Income & Employment	Classical Theory of Income and Employment: Key assumptions; Say's Law; Wage-Price Flexibility; Determination of Output and Employment; Neutrality of Money.  Keynesian Theory of Income & Employment: Aggregate Demand and Aggregate Supply, Effective Demand; Determination of Simple Keynesian Equilibrium; Paradox of Thrift.	10
UNIT-II: Consumption & Investment Analysis	Concept of Consumption Function; MPC & MPS; APC & APS; Factors influencing consumption expenditure; Life Cycle Hypothesis, Relative Income Hypothesis  Types of Investment: Autonomous & Induced; Determinants of Investment: MEC and MEI; Investment Multiplier; Acceleration Principle	10

UNIT-III: Money & Banking Sector	<p>Functions of Money; Different components of Money; Keynesian Concept of Liquidity Preference; Quantity Theory of Money: Fisher's and Cambridge Version.</p> <p>Commercial Banks: Functions with special emphasis on credit creation; Central Bank: Functions with special emphasis on credit control.</p>	10
UNIT-IV: Trade Cycle & Inflation	<p>Trade Cycle: Meaning and Characteristics; Hawtrey's Theory of Trade Cycle; Measures to Control Trade Cycles.</p> <p>Inflation: Demand Pull and Cost Push Theories; Effects of Inflation on Production and Distribution; Anti-Inflationary Measures; Concept of Deflation and Stagflation.</p>	10
<p><b>Suggested Readings:</b></p> <ol style="list-style-type: none"> <li>1. Lipsey &amp; Chrystal, Principles of Economics, Oxford University Press</li> <li>2. Mankiw N. Gregory, Principles of Economics, Centage Learning</li> <li>3. Dornbusch, R., Fischer, S., &amp; Startz, R., Macroeconomics. McGraw-Hill Education.</li> <li>4. Jaydeb Sarkhel, Macroeconomic Theory, Book Syndicate Pvt. Ltd.</li> <li>5. H.L. Ahuja, Advanced Economic Theory, S. Chand &amp; Company Ltd.</li> <li>6. M.L. Jhingan, Macro Economic Theory, Vrinda Publications Pvt. Ltd.</li> <li>7. Sampat Mukherjee, Analytical Macroeconomics, New Central Book Agency (P) Ltd.</li> <li>8. Sampat Mukherjee &amp; Debesh Mukherjee, <i>Samakalin Arthavidya</i>, New Central Book Agency (P) Ltd.</li> <li>9. Jaydeb Sarkhel, <i>Adhunik Arthanitir Bhumika</i>, Book Syndicate Pvt. Ltd.</li> <li>10. Ajoy Kumar Nandi, <i>Samasthigoto Arthaniti</i>, B.B. Kundu Grandsons</li> <li>11. Montosh Chakraborty, <i>Samastik Arthaniti</i>, Dhakeswary Library, Dhaka</li> </ol>		

Programme/ Class Degree: BA	Year: Third	Semester: 6 <sup>th</sup>
<b>Subject: Economics (Major), Paper-XIII</b>		
Course Code:	<b>Course Title: Economy of Tripura</b>	
Course Objective:	<ul style="list-style-type: none"> <li>● Provide basic knowledge on the Economy of Tripura to the learners</li> <li>● Enable the students learn about the growth and development experiences of the state</li> <li>● Help the students to analyse the various dimensions of Tripura's Economy</li> </ul>	
Course Outcome:	<ul style="list-style-type: none"> <li>● Enable the students to learn about the features and characteristics of the economy of Tripura</li> <li>● Boost the knowledge base of the students and help them pursue their career goals and real life objectives</li> <li>● Facilitate the learners to engage with the society in a more fruitful manner and lead to welfare of all and betterment of society</li> <li>● Help those seeking employment through any kind of competitive examination as well as enable them to make informed choices in course of their working life</li> </ul>	
Credits:04		
FullMarks:100	MinimumPassMarks:40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
I - Historical Background, Population & Size of the Economy	Historical & Geographical background; An Economic History of Tripura Population growth- after & before 1971; Trends in Demographic Parameters, Population Density; Sex Ratio; Life Expectancy; Fertility Rate; Mortality Rates; Work Force and Labour Force Participation, Occupational Distribution Trend-wise & Sector-wise Composition of GSDP/ GSVA; Per capita income; Trends in per-capita NSDP	07
II Sectoral Status	Agriculture: Land holding patterns, Land reforms, cropping pattern, Production and productivity of principal crops; Diversification of the rural economy- Horticulture; Floriculture; Plantations; Fishery; Animal Husbandry/ Livestock; Non-farm activities; Challenges and prospects of the sector Industry- Extent of Manufacturing; Hydrocarbon (Natural Rubber, Gas and Thermal) industry; Handlooms & Handicrafts; Status, challenges and prospects of the sector Service Sector- Size and Composition; Tourism Resources and its potential; banking & financial sector activities; Major items of trade and commerce	12
III State Finances & Infrastructure	Trends and Composition of Government Receipts; Impact of GST on the state revenues; Composition of Public expenditure and its implications; Sustainability of Government Borrowing; TFRBM Act; Fiscal Devolution to Local Bodies; Grants of Finance Commissions Infrastructure- Status of Road, Rail, Air Connectivity, Status of Power & Telecommunications, Human Development Indicators- extent of infrastructure of education & health	12
IV Development	Economic Transition of Tripura- Rehabilitation of the Shifting Cultivators, Economy of TTAADC	09

experiences & Neighbourhood	Major Developmental Interventions- Gumti Hydel Project, Palatana Power Project, JICA, Indo-German Project, World Bank Aids Status of SDGs In Tripura Tripura and her neighbours- Volume & Composition of International Trade; Border Haats; Act East Policy and its implications	
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### Suggested Readings

- 1) Pravas Ranjan Bhattacharjee—*Economic Transition in Tripura (1993)*, Vikas Publishing House
- 2) Indraneel Bhowmik & Debajit Chakraborti—*Resources & Economy of Tripura (2011)*, EBH Publishers.
- 3) Kiran Shankar Chakraborty, Abhijit Sarkar & Bibhuti Bhushan Sarkar—*Agricultural Development in Tripura (2014)*, Akansha Publishing House.
- 4) Nani Ranjan Datta—*Economic Development of Tripura in the background of North East (2021)*, Omsons Publications
- 5) Govt. of Tripura- *Economic Review of Tripura* (Yearly issues)
- 6) NITI Aayog- *North Eastern Region District SDG Index*;  
[https://www.niti.gov.in/sites/default/files/2021-08/NER\\_SDG\\_Index\\_NITI\\_26082021.pdf](https://www.niti.gov.in/sites/default/files/2021-08/NER_SDG_Index_NITI_26082021.pdf)
- 7) Tripura Human Development Report (2005) published by Govt of Tripura
- 8) Anasu Basu Ray Chaudhury and Ambar Kumar Ghosh- *Situating India's Northeast in the Bay of Bengal Regional Architecture (2023)*, ORF
- 9) Salim Shah - *Agriculture in Tripura: Its Problems and Prospects* (2004), Progressive Publishers
- 10) Evaluation of State Finances of Tripura (Various Issues), Finance Commission Reports, GoI

Programme/Class Degree: BA	Year: Third	Semester: VI
<b>Subject : Economics (Major)</b>		
<b>Course Code:</b> <b>EC114C</b>	<b>Course Title: International Trade</b>	
Course Objective:	<ul style="list-style-type: none"> <li>This course introduces the basics of international trade theory and examines the effects of international economic policies on domestic and world welfare.</li> </ul>	
Course Outcome:	<p>It aims to students to:</p> <ul style="list-style-type: none"> <li>acquaint with the principles and main theoretical concepts in international trade;</li> <li>familiarize students with the main issues in trade policy;</li> <li>demonstrate their understanding of the usefulness and problems related to topics in international trade, and demonstrate their critical understanding of trade policies.</li> </ul>	
Credits:	04	
Max. Marks: 100	Min. Pass Marks: 40	
Unit	Topics	No. of Lectures
Unit-I: Trade Theories	<p>Basic concepts: absolute advantage, comparative advantage, production possibility curve and marginal rate of transformation in production, community indifference curve and marginal rate of substitution in consumption, gains from trade - from exchange and from specialization, demand reversals, factor intensity reversals, offer curve and terms of trade.</p> <p>Basis of Trade - Adam Smith and the absolute advantage of trade; David Ricardo and the comparative advantage of trade; Factor Abundance and comparative advantage in the Heckscher-Ohlin model of trade.</p>	12
Unit-II: Balance of Payments	<p>Balance of Payments (BOP) – concept and components – Accounting method, Balance of Trade, Surplus and Deficit in the Balance of Payments – Autonomous and Accommodating items in the BOP, measures to correct deficit in the BOP, Devaluation – effects of Devaluation on BOP deficit, Balance of Payments theory</p>	12
Unit-III: Foreign Exchange	<p>Foreign Exchange rate- Meaning - Exchange rate determination, Exchange Rate system- Fixed and Flexible Exchange rates, Spot Rate and Forward Rate, Foreign Exchange Risks - Hedging and Speculation, IMF: Functions and International Liquidity, Functions and Role of World Bank and WTO.</p>	12
Unit-IV: Trade Policies	<p>Free Trade vs. Protection - Tariff barriers to trade, Effects of tariff - Optimum Tariff, Non-tariff barriers to trade -Quantitative trade restrictions, General Equilibrium analysis- Small and Large country case</p>	12
Suggested Readings (latest edition):		

- Sodersten, Bo and Geoffrey Reed: International Economics, Macmillan Press Ltd.
- Mannur, H. G: International Economics, Vikas Publishing House Pvt. Ltd.
- Heller, H. Robert: International Trade - Theory and Empirical Evidence, Prentice Hall of India Pvt. Ltd.
- Jhingan, M. L. and B. K. Jhingan: International Economics, Virinda Publications (P) Ltd.



<b>Program/Course:</b> B.A./ B.Sc. Major		<b>Year: 3<sup>rd</sup></b>	<b>Semester: VI</b>
<b>Subject: Economics (Major)</b>			
Course Code:	<b>Course Title: Statistics – II</b>		
Course objective:	<ul style="list-style-type: none"> <li>• To teach the analysis of chance events in a logically sound manner</li> <li>• To teach the model and variability of data on random variable.</li> <li>• To teach the sample survey method from a large population and to establish representative results of small sample of a large population.</li> <li>• (iv) To teach making estimates about population and testing hypothesis to draw conclusions about population.</li> </ul>		
Course Outcome:	<ul style="list-style-type: none"> <li>• The students will learn the analysis under uncertain situation.</li> <li>• The course will help to the students to prepare the model using random variable.</li> <li>• It may help to the students how to draw sample from the population.</li> <li>• They will learn estimating, testing and conclusion about population.</li> </ul>		
Credits:	4		
Full Marks: 100	Min. Passing Marks: 40		
Unit	Topics	<b>No. of Lectures</b>	
Unit – I Theory of probability	Probability: Basic Concepts, Terminologies; Classical definition of probability with properties empirical definition of probability, subjective probability. Theorem of probability – theorem of total probability and compound probability: conditional and unconditional probability. Dependent and independent events. Bayes’ theorem of probability. Probability under the conditions of drawing with replacement and without replacement.	10	
Unit – II Probability Distribution	Concept of Random Variable- Discrete and Continuous Random Variable- Probability Distribution of Random Variable- Probability Mass Function and Probability Density Function, Joint Probability Distribution, Cumulative Distribution Function	10	

	Mathematical Expectation, Binomial Distribution; Poisson Distribution; Normal Distribution	
Unit – III Theory of Sampling and Sampling Distribution:	Definition of sample. Concept of sample survey method – advantages and disadvantages of sample survey method. Biases in sample survey method. Sources of biases. Sampling and non-sampling error. Definition and types of sampling - probability, non-probability and mixed sampling: their various methods - sampling distribution - expectation and standard error of sample mean, sample proportion. Four fundamental distribution – definition of Standard Normal distribution, Chi-square distribution, t-distribution and F-distribution.	10
Unit – IV Classical Inferential Statistics	Theory of estimation: Point estimation – method of point estimation, least square method, maximum likelihood method, properties of maximum likelihood estimator; criteria of good estimator – small sample and large sample; Interval estimation – concept of confidence limits; interval estimation of sample mean and proportion. Hypothesis testing: concept of null hypothesis and alternative hypothesis; Critical Region and Acceptance Region – Type I and Type II error, one tailed test; two-tailed test, level of significance of test, power of test, z-test, chi-square test, t test and F test.	10
Suggested References	1. Gun, Gupta and Das Gupta, <i>An Outline of Statistical Theory</i> , Vol. II., World Press Publication 2. N G Das, <i>Statistical Method</i> , Vol. II (Part II in new edition) 3. Robert V. Hogg, Elliotts A Tanis and Jagan Mohan Rao, <i>Probability and Statistical Inference</i> . 4. S. C. Gupta and V. K. Kapoor, <i>Fundamentals of Mathematical Statistics</i> . 5. Morris Humburg, <i>Statistical Decision Making</i> .	

Programme/Class Degree:	Year: Third	Semester: VI
<b>Subject: Economics (Major) Paper-XVI</b>		
Course Code:	<b>Course Title:</b> Econometrics	
Course Objective:	<ul style="list-style-type: none"> <li>To introduce the students to the discipline of Econometrics</li> <li>To introduce the Method of Ordinary Least Squares to the students</li> </ul>	
Course Outcome:	<ul style="list-style-type: none"> <li>The students get familiarized with the basics ideas of the discipline of Econometrics</li> <li>The students are able to comprehend the two-variable case of Simple Linear Regression Analysis</li> <li>On completion of the course the student will be able to estimate simple econometric models, Interpret those models, apply various tests of significance and detect violations of classical assumptions.</li> </ul>	
Credits:	04	
Max. Marks: 100	Min. Passing Marks: 40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I: Introduction	Definition and Scope of Econometrics; Methodology of econometrics; The nature of Regression Analysis; Historical origin and modern interpretation of the term 'Regression'; Terminology and notation; the nature and sources of data for Econometric Analysis; Population Regression Function (PRF); Sample Regression Function (SRF) and Population Regression Function (PRF), Significance of Stochastic disturbance component	8
UNIT-II: Two- Variable Classical Linear Regression Model	Classical Linear Regression Model, Assumptions underlying the Method of Least Squares, Properties of Least Squares Estimators, BLUE properties - Measure of Goodness of fit - Analysis of Variance (ANOVA), Testing of Hypothesis of the Regression Parameters	10
UNIT-III: Three - Variable Classical Linear Regression Model	Three Variable Linear Regression Model, Assumptions, Method of Least Squares Estimation, BLUE property, Goodness of fit (in terms of $R^2$ , adjusted $R^2$ and F statistic), Analysis of Variance (ANOVA). Testing of Hypothesis of the Regression Parameters	12
	Multicollinearity - Consequences, Detection (Variance Inflationary	10

UNIT-IV: Violation of Classical Assumptions	Factor (VIF)) and Way out  Heteroscedasticity - Consequences, Detection (Lagrange Multiplier test) and Way out  Auto-correlation - Consequences, Detection (Durbin-Watson Test) and Way out	
<p><b>Suggested Readings:</b></p> <ul style="list-style-type: none"> <li>▪ D. Gujarati, <i>Basic Econometrics</i>, McGraw Hill Higher Education.</li> <li>▪ G.S.Maddala, <i>Introduction to Econometrics</i>, John Wiley &amp; Sons.</li> <li>▪ Joydeb Sarkhel, Santosh Kumar Dutta, <i>Introduction to Econometrics</i>, Book Syndicate Pvt. Ltd.</li> <li>▪ Wooldridge, Jeffrey M. <i>Introductory Econometrics – A Modern Approach</i>, CENGAGE Learning</li> <li>▪ Green, W.H. (2011) <i>Econometric Analysis</i>, 7th Edition, Prentice Hall</li> </ul>		
<p>Suggested Continuous Evaluation Methods: Assignment / Test / MCQ Assignment /Test/Quiz(MCQ)/Presentations</p>		

Programme/Class Degree: BA	Year: Third	Semester: VI
<b>Subject: Economics (Minor)- VI</b>		
CourseCode:	<b>Course Title: Economics of NER &amp; Tripura</b>	
Course Objectives	<ul style="list-style-type: none"> <li>● Provide knowledge on the various facets of the Economy of the NER of India</li> <li>● Enable the students to learn to analyse the growth and development experiences of the region</li> <li>● Highlight the different prospects which can be explored for future</li> </ul>	
Course Outcome	<ul style="list-style-type: none"> <li>● Upon completion of this course, students will be able to:</li> <li>● Demonstrate knowledge of the key sectors of the Indian economy</li> <li>● Analyse the impact of economic reforms</li> <li>● Identify and analyse current economic issues and challenges</li> <li>● Articulate informed opinions on economic policy matters</li> <li>● Develop critical thinking and analytical skills in the context of Indian economic issues</li> </ul>	
Credits: 04		
Max.Marks:100	Min.PassingMarks:40	
<b>Unit</b>	<b>Topics</b>	<b>No. of Lectures</b>
UNIT-I: North-East as a Region	Characteristics of the Economy of the North-East India; NEC- role, aims and objectives, critical evaluation; MDONER- role, aims and objectives, critical evaluation Natural Resources- Minerals, Forests, Water & their uses, challenges & prospects Human Resources- Size & growth of Population, Density, Rural-urban ratio, Occupational Distribution, Sex ratio, Age-structure, Life Expectancy, Infant Mortality, Literacy Trend & Composition of the State Domestic Product and per-capita income of different states; reasons for slow growth	9
UNIT-II: Agriculture & Industry	Primary Sector in the NER- Extent & Importance, Production & Productivity of Major Crops, Land Use & Cropping pattern; problems & challenges; Shifting Cultivation & transition Secondary Sector in the NER- Role of Organised and Unorganised Sectors; Extent of Industrial Development, Industrial Policies for NER in the post-reform period; Challenges & problems faced; suggestions to overcome them, SSIs & MSMEs in NER	10
UNIT-III: Emerging Sectors	Tertiary Sector in the NER- Trade & Commerce; Tourism- present status, prospects & problems State of Infrastructure in North-East- Power, Transport, Communication, Banking & Finance- Performance, prospects & challenges; RRBs in NER; International Trade from NER- Status & Prospects of Border-trade with neighbouring countries, Act East Policy- aspects; Border Haats Health & Education- State-wise status SDGs in the NER	13

UNIT-IV: Economy of Tripura	Historical & Geographical background; Economic History of Tripura Developmental Experiences-Growth of the State Economy and Sectors, TTAADDC Developmental Interventions- Gumti Hydel Project, Palatana Power Project, JICA, Indo-German Project, World Bank Aids	8
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### Suggested Readings:

1. Deepak Mishra & Vandana Upadhyay–“Rethinking Economic Development in Northeast India- The Emerging Dynamics” (2017), Routledge
2. Jalad Baran Ganguly– “An Economic History of North East India” (2006), Himalaya Publishing House, Mumbai
3. Hans P Brunner–“North East India: Local Development & Global Markets” (2010), Sage
4. KR Dikshit & Jutta K Dikshit- “North East India: Land People and Economy" (2014), Springer
5. Atul Sarma & Saswati Choudhury- "Mainstreaming the Northeast in India's North East Policy"(2018), Springer
6. Salim Shah & Dilip Kumar Rana- "Development of Northeast India- Emerging Policy Issues"(2022), EBH Publishers.
7. Sumi Krishna- "Agriculture and Changing Environment in Northeastern India" (2013)- Routledge
8. Anasua Basu Ray Chaudhury and Ambar Kumar Ghosh- *Situating India 's Northeast in the Bay of Bengal Regional Architecture (2023)*, ORF
9. Indraneel Bhowmik & Debajit Chakraborti—*Resources & Economy of Tripura (2011)*, EBH Publishers.
10. NITI Aayog- *North Eastern Region District SDG Index*;  
[https://www.niti.gov.in/sites/default/files/2021-08/NER\\_SDG\\_Index\\_NITI\\_26082021.pdf](https://www.niti.gov.in/sites/default/files/2021-08/NER_SDG_Index_NITI_26082021.pdf)
11. Rakhee Bhattacharya- " Developmentalism as a Strategy"(2019), Sage
12. Reports on State Finances by RBI
13. Database on Indian Economy- Reserve Bank of India