

## B.A. Semester – III

### Subject: ECONOMICS Discipline Specific Course (DSC)

The course Economics in III semester has two papers (Paper I & II) for 06 credits: Each paper has 03 credits. Both the papers are compulsory. Details of the courses are as under.

#### Course No.-5 (Paper No. I)

Course No.	Type of Course	Theory/ Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
<b>Course No.5</b>	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

#### Course No.5 (Paper-I):

**Title of the Course (Paper-I): Intermediate Micro Economics (Code: 013EC0011)**

**Course Outcomes (COs):** After the successful completion of the course, the student will be able to:

- CO1:** Understand introductory economic concepts.
- CO2:** Know the ordinal measurement of utility and be able to understand decision making process of consumer
- CO 3:** Understand and explain the production function graphically and analytically
- CO3:** Be able to understand a cost equation and estimate it
- CO4:** Explain how equilibrium is achieved in the various market models.
- CO5:** Recognize the basic concepts of factor incomes

<b>Syllabus- Course 5: Title- Intermediate Micro Economics</b>		<b>42 Hrs</b>
<b>Unit 1</b>	<b>Basics of Microeconomics</b>	<b>14 hours</b>
	<b>Chapter 1</b> <b>Some Concepts of Microeconomics</b> Scarcity and Choice; Opportunity cost; Production possibility frontier; Price mechanism v/s state intervention Types of Goods (Free Goods, Economic Goods, Public and Private goods, Common Property Resources, Club goods).	6 hrs
	<b>Chapter 2</b> <b>Chapter:2 Consumption decision:</b> Indifference curves – Meaning and Properties; budget constraint; Consumer’s Equilibrium; Price, income and substitution effects; Derivation of Demand Curve from Indifference Curves; Revealed Preference Theory; Choice between leisure and income.	8 hrs

<b>Practicum:</b>			
<ul style="list-style-type: none"> <li>➤ Prepare assignment on Consumer's equilibrium through indifference curve analysis</li> <li>➤ Seminar on Concepts of Micro Economics</li> <li>➤ Conducting a consumer survey to understand their tastes and preferences</li> </ul>			
<b>Unit -2:</b>	<b>Production and Costs</b>		<b>14 hours</b>
	<b>Chapter 3</b>	<b>The Firms:</b> Concept of firm and Industry; Production Function with Two variable inputs: Properties of Isoquant, isocost line and least cost combination of inputs; Production function with all variable inputs (Returns to Scale); Features of Cobb-Douglas Production Function	8 hrs
	<b>Chapter 4</b>	<b>Cost of Production:</b> Cost function and estimation: Linear and Non-Linear (cubic and quadratic) and applications ; Economies and Diseconomies of scale	6 hrs
<b>Practicum:</b>			
<ul style="list-style-type: none"> <li>➤ Group Discussion on Economies and Diseconomies of scale</li> <li>➤ Project work on cost functions and cost estimations</li> </ul>			
<b>Unit -3:</b>	<b>Price Determination of products and factors</b>		<b>14 hours</b>
	<b>Chapter 5</b>	<b>The Markets -I:</b> Perfect Competition: Price determination of an industry under different time periods and equilibrium of firm under short run and long run; (some numerical exercises) Monopoly pricing and price discrimination; (some numerical exercises)	4 hrs
	<b>Chapter 6</b>	<b>The Markets-II:</b> Pricing under Monopolistic Competition; equilibrium of firm under product differentiation and selling costs; Oligopoly – Interdependence and price rigidity, Collusive (Cartels and Price leadership) and non-collusive oligopoly (Cournot model); Elements of Game theory (players, strategy, Payoff matrix)	5 hrs
	<b>Chapter 7</b>	<b>The Inputs (Factors)</b> Functional and Personal Income; Marginal Productivity Theory of Distribution; Modern theory of distribution; Concepts related to rent, wage, interest and profit.	5 hrs
<b>Practicum:</b>			
<ul style="list-style-type: none"> <li>➤ Conducting Market Survey to identify the nature and features of markets for different goods/services</li> <li>➤ Understanding distribution of national income as factor incomes</li> </ul>			

References	
1	Ahuja, H.L. (2008): <i>Principles of Microeconomics</i> , S. Chand and Co., New Delhi
2	Mankiw, N. Gregory (2020). <i>Principles of Economics</i> (Ninth ed.). Boston, MA.
3	Jhingan, M.L. (2016): <i>Microeconomics</i> , Vrinda Publications, New Delhi
4	Koutsoyianis, A (1979): <i>Modern Microeconomics</i> , London, Macmillan
5	Omkarnath, G. (2012): <i>Economics: A Primer for India</i> , Orient Blackswan, Hyderabad
6	Samuelson, Paul (2004): <i>Economics</i> , McGraw-Hill, New Delhi
7	Krishnaiahgouda H.R. (2020): Sookshma Arthashastra (Kannada medium) Sapna Book House, Bengaluru
8	<a href="https://www.core-econ.org/the-economy/book/text/0-3-contents.html">https://www.core-econ.org/the-economy/book/text/0-3-contents.html</a>
9	Somashekhar Ne. Thi., Sookshma Arthashastra (Kannada medium), Sidhlingeshwara Prakashana, Kalburgi.
10	Varshney R L and Maheswari K L (2021): <i>Managerial Economics</i> , Sultan Chand and Sons, New Delhi

Pedagogy: Lecture, Problem solving, seminar, presentation, activities, group discussion, field visit, project work, etc.,

## B.A. Semester – III

### Subject: ECONOMICS Discipline Specific Course (DSC)

#### Course No.-6 (Paper No. II)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
<b>Course No.6</b>	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

#### Course No.6 (Paper-II):

#### Title of the Course (Paper-II): Quantitative Methods for Economics-I (Code: 013EC0012)

**Course Outcomes (COs):** After the successful completion of the course, the student will be able to:

**CO1:** Perform basic operations in Sets and functions and Matrix algebra.

**CO2:** Calculate limits, derivatives of Economic functions and identify the nature of relationship.

**CO3:** Calculate maxima and minima of function

Syllabus- Course 6: Title- Quantitative Methods for Economics-I			42 Hrs
<b>Unit 1</b>	<b>Preliminaries</b>		<b>14 hours</b>
	<b>Chapter 1</b>	<b>Introduction to Mathematical Economics:</b> Nature and scope of mathematical economics- Role of mathematics in economic theory	3 hrs
	<b>Chapter 2</b>	<b>Number system and Set theory:</b> Types of Numbers: Natural Number, Real number, integers, Ratios and Proportions; Concepts of sets- meaning –types- union of sets- Intersection of sets.	6 hrs
	<b>Chapter 3</b>	<b>Functions:</b> Meaning and types of Variables, Constants and Functions; Linear and Non-linear Functions; Quadratic, Polynomial, Logarithmic and Exponential functions	5 hrs
<b>Unit 2</b>	<b>Economic Functions, their Application and Matrices</b>		<b>14 hours</b>
	<b>Chapter 4</b>	<b>Applications of functions- I</b> Demand Function, Supply function, Graph of Economic Functions, Market equilibrium; Equilibrium price and Quantity, Impact of specific tax and subsidy on market	6 hrs
	<b>Chapter 5</b>	<b>Applications of Functions -II</b> Simple interest, Compound Interest and discounting the future (exponential function), equilibrium	2 hrs

	<b>Chapter 6</b>	<b>Matrices:</b> Definition and Types of Matrices- Matrix Operations: Addition, Subtraction and Multiplication, Transpose of a Matrix, Determinants of Matrix	6 hrs
<b>Unit 3</b>	<b>Differential Calculus and Its Applications</b>		<b>14 Hrs</b>
	<b>Chapter 7</b>	<b>Limits:</b> Limits of functions, differentiation, rules of differentiation.	4 hrs
	<b>Chapter 8</b>	<b>Derivatives of Economic functions:</b> Derivation of Marginal functions from total function- Utility, Production, Cost, Revenue and Profit functions	5hrs
	<b>Chapter 9</b>	<b>Applications of Derivatives and Higher order derivatives:</b> Elasticity of Demand- <b>Second order derivatives</b> - Maxima and Minima of Economic function.	5hrs

References	
1	Chiang, A. C. and Wainwright, K., "Fundamental Methods of Mathematical Economics", McGraw-Hill/Irwin, 4th Edition, 2005.
2	Sydsaeter, K and Hammond, P., Mathematics for Economic Analysis, Pearson Educational Asia, 4th Edition, 2002.
3	Allen R.G.D., (2015) Mathematical Analysis for Economists, Macmillan.
4	Bose D., (2003) An Introduction of Mathematical Economics, Himalaya Publishing House, Mumbai.
5	Dowling, E. T., "Introduction to Mathematical Economics", McGraw-Hill, 2001.
6	Hoy, M., Livernois, J. McKenna, C, Rees, R. and Stengos, T., "Mathematics for Economics", MIT Press, 3rd Edition, 2011
7	Veerachamy R (2005) Quantitative Methods for Economics, New Age International Publishers Private Ltd. New Delhi.
8	Yamane Taro, (2002) Mathematics for Economists -An Implementer Analysis, Phi Learning Publishers.
9	S. N. Yogish, Mathematical methods for Economists- Mangaldeep publications, Jaipur.
10	G M Dinesh and K N Muralidhar (2019), arthashatrakkagi ganitashaastra mattu sankhyashaastra (kannada medium), Mysore Book House Pub, Mysore
11	Krishnaiah Gowda H R, Vedamurth. G and Parashivamurthy. H L, (2016), Ganitatmaka mattu sankhyatmaka Arthashaastra (Kannada medium), Vidyanidhi Prakashana, Gadag

## B.A. Semester – IV

### Subject: ECONOMICS Discipline Specific Course (DSC)

The course Economics in IV semester has two papers (Paper I & II) for 06 credits: Each paper has 03 credits. Both the papers are compulsory. Details of the courses are as under.

#### Course No.-7 (Paper No. I)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
<b>Course No.7</b>	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

#### Course No.7 (Paper-I):

**Title of the Course (Paper-I): Intermediate Macro Economics**

**(Code: 014ECO011)**

**Course Outcomes (COs):** After the successful completion of the course, the student will be able to:

- CO1: Comprehend and explain the classical theory of employment
- CO2: Understand the Theories of Determination of National Income
- CO3: Explain the working of multiplier and accelerator in national income determination
- CO 4: Understand and explain the tradeoff between inflation and unemployment
- CO 5: Workout numerical problems regarding consumption function, investment function and value of money

Syllabus- Course 7: Title- Intermediate Macro Economics		42 Hrs
<b>Unit 1</b>	<b>Theory of National Income Determination</b>	14 hrs
	<b>Chapter 1</b> <b>Classical Framework:</b> 1. Typical Features of classical theory of employment; Assumptions 2. Basis of Classical theory: Say's Law Pigou's wage price flexibility Fisher's Quantity theory of money Knut Wicksell's loanable funds theory Classical dichotomy and neutrality of money 3. Criticism of classical theory	7 hrs

	<b>Chapter 2</b>	<b>The Keynesian Framework</b> 1. Introductory: connecting growth of national income to development; why incomes of all fall or rise? Are income, output, and employment related? 2. Some Basic concepts: The idea of equilibrium and identity; ex- ante and ex-post concepts. 3. Aggregate Demand and its components a. Consumption function: Marginal and Average propensity to consume: Algebraic and Graphical explanation; b. Investment function; savings and investment relationship. 4. Aggregate Supply: Meaning and graphical explanation; 5. Effective demand; Determination of national income in Keynes' two sector economy with Aggregate Demand and Aggregate Supply with fixed prices: Analytical /Graphical and algebraic explanation; numerical problems 6. Determination of national income in Keynes' two sector economy with investment and savings with fixed prices: Analytical /Graphical and algebraic explanation; numerical problems	7 hrs
	Practicum:	1) Prepare an assignment on Income and Employment determination of Keynes 2) Seminar on features of classical theory of employment	
<b>Unit 2</b>	<b>Aggregate Consumption and Investment</b>		14 hrs
	<b>Chapter 3</b>	<b>Theories of Determinants of Consumption:</b> 1. Keynesian Psychological Law of consumption; determinants 2. Permanent Income hypothesis of Milton Friedman	5 hrs
	<b>Chapter 4</b>	<b>Investment:</b> 1. Types of investment 2. Determinants of investment: a. rate of interest b. marginal efficiency of capital: meaning and determinants;	4 hrs
	<b>Chapter 5</b>	<b>Concepts of Multiplier and Accelerator</b> 1. Investment Multiplier: Meaning , process of working and leakages; 2. Accelerator : Meaning and working 3. Interaction of Multiplier and Accelerator	5 hrs
	Practicum	1) Activity: Solve problems on consumption function multiplier and MEC 2) Prepare a write-up on working of multiplier and accelerator	

<b>Unit 3</b>	<b>Monetary Economics</b>		14 hrs
	<b>Chapter 6</b>	<b>Demand for and Supply of Money</b> 1. Quantity theory of Money a) Cash transactions approach b) Cambridge approach c) Comparison of the two approaches	7 hrs
	<b>Chapter 7</b>	<b>Inflation and Unemployment:</b> a) The tradeoff: Phillips curve b) Adaptive expectations model of Friedman c) Rational Expectations Model of Robert Lucas	7 hrs
	Practicum	1) Numerical exercises with regard to cash transaction and cash balance approaches 2) Discussion on short run and long run Phillips curve	

<b>References</b>	
1	Ackley, G. (1976), Macroeconomics: Theory and Policy, Macmillan Publishing Company, New York.
2	Ahuja H (2016), Macro Economics- theory and policy, S Chand and Co
3	Dwivedi DN (2016) Macro Economics: Theory and Policy, Tata McGraw-Hill
4	Heijdra, B.J. and F.V. Ploeg (2001), Foundations of Modern macroeconomics, Oxford University Press, Oxford.
5	Keynes, J.M. (1936), The General theory of Employment, Interest and Money, Macmillan, London.
6	Lucas, R. (1981), Studies in Business Cycle Theory, MIT Press, Cambridge, Massachusetts
7	Somashekar Ne. Thi., Principles of Macroeconomics, Scientific International Pvt. Ltd., Publications New Delhi
8	Somashekar Ne. Thi., Samagra Arthashastra (kannada medium), Siddalingeshwara prakashana, Kalburgi.
9	H. R. Krishnaiah Gowda Samagra Arthashastra (kannada medium), Mysore book house prakashana, Mysore.

Pedagogy: Lecture, Problem solving, seminar, presentation, activities, group discussion, field visit, project work, etc.,



## B.A. Semester – IV

### Subject: ECONOMICS Discipline Specific Course (DSC)

#### Course No.-8 (Paper No. II)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
<b>Course No.8</b>	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

#### Course No.8 (Paper-II):

#### Title of the Course (Paper-II): Quantitative methods for Economics –II (Code: 014ECO012)

**Course Outcomes (COs):** After the successful completion of the course, the student will be able to

CO1: Understand the nature of Data and their presentation

CO2 : Calculate Descriptive statistics like measures of central tendency and dispersion

CO3 : Apply statistical techniques like correlation and regression in Economic analysis

Syllabus- Course 8: Title- Quantitative methods for Economics -II			42 Hrs
<b>Unit 1</b>	<b>Preliminaries</b>		14 hrs
	<b>Chapter 1</b>	<b>Introduction to Statistics</b> Meaning and Importance of Statistics; Functions of Statistics; Types of Statistics: Descriptive Statistics and Inferential Statistics; Variables: Qualitative Variable and Quantitative Variable	4 hrs
	<b>Chapter 2</b>	<b>Data types</b> Qualitative and Quantitative Data - CrossSection Data, Time Series Data and Panel Data - Primary and Secondary sources of Data – Methods of Collecting Primary Data	4 hrs
	<b>Chapter 3</b>	<b>Tabulation and Presentation of Data:</b> Classification and tabulation of data - Frequency distributions – Continuous and Discrete frequency distribution. Graphical presentation- Histogram- frequency polygon - Ogive Curves -Bar Diagram, Pie Chart	6 hrs
<b>Unit 2</b>	<b>Measures of Central Tendency and Dispersion</b>		<b>14 hrs</b>
	<b>Chapter 4</b>	<b>Arithmetic Average:</b> Definition of Central Tendency; Types of Central Tendency: Arithmetic Mean: Meaning and Properties of Arithmetic Mean – Computation of Arithmetic Mean	5 hrs

	<b>Chapter 5</b>	<b>Positional Averages-Median and Mode:</b> Definition and importance of Median-Calculation of Median- Definition and importance of Mode - Calculation of Mode.	4 hrs
	<b>Chapter 6</b>	<b>Chapter-6: Dispersion:</b> Meaning of Dispersion- Measures of Dispersion- Range- Quartile deviation- mean deviation - Standard deviation - Coefficient of Variation and Their Computation	5 hrs
<b>Unit 3</b>	<b>Correlation, Regression and Time Series Analysis</b>		<b>14 hrs</b>
	<b>Chapter 7</b>	<b>Correlation:</b> Meaning of Correlation - Types of correlation - Methods of measuring Correlation- Karl Pearson's correlation coefficients	5 hrs
	<b>Chapter 8</b>	<b>Regression:</b> Meaning and Importance of Regression - Regression Equation -Estimation of regression equation - Applications of regression equation in Economics	5 hrs
	<b>Chapter 9</b>	<b>Time Series Analysis:</b> Definition of Time Series – Components of Time Series – Estimation and Forecasting of Trend	4 hrs

References	
1	Gupta S P. (2012) Statistical Methods, S. Chand and Company, New Delhi.
2	S. C. Gupta, (New edition) Fundamentals of Statistics, Himalaya publishing house, Mumbai.
3	S. N. Yogish, Statistical methods for Economists- Mangaldeep publications, Jaipur.
4	Anderson, Sweeney & Williams, (2002) Statistics for Business & Economics, Thomson South-Western, Bangalore.
5	Daniel and Terrel: Business Statistics for Management and Economics; oaghton Mifflin Co., Boston, Toronts, 7th Edition, 1995, PP 1 to 972 + 6 Appendices
6	Medhi, J., Statistical Methods: An Introductory Text, Wiley, 1992
7	Morris H. Degroot and Mark J. Schervish, "Probability and Statistics", 4th edition, 2012.
8	Teresa Bradley, Essential Statistics for Economics, Business and Management, John Willey Publisher, 2007

Pedagogy: Lecture, Problem solving, seminar, presentation, activities, group discussion, field visit, project work, etc.,