



BACHELOR OF SCIENCE (ECONOMICS)
Syllabus with effect from the Academic Year 2025-26
B.Sc. (Economics) Semester - I

Course Code	US01MAECO01	Title of the Course	Fundamentals of Economics – I
Total Credits of the Course	4	Hours per Week	4

Course Objectives:	1. To know the definition and scope of Economics 2. To understand the behaviour of consumer and producer 3. To know the factor of production in economics and return for the factors
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Course Content		
Unit	Description	Weightage (%)
1.	Basic Concepts of Economics 1.1 Definitions of Economics and their Critical Evaluation: Adam Smith, Marshall, Lionel Robbins, Samuelson 1.2 Nature and Scope of Economics: Subject matter of Economics, Divisions of Economics, Scope of Economics, Relations of Economics with other sciences, Methods and Importance of Economics 1.3 Various Concepts of Economics: Consumer, Producer, Market, Production, Factors of Production, Utility, Value, Price, Goods, Services, Wealth, Stock and Supply	25%
2.	Demand and Supply 2.1 Meaning of Demand 2.2 Demand function: Increase and Decrease & Expansion and Contraction of demand 2.3 Meaning of Supply 2.4 Supply function: Increase and Decrease & Expansion and Contraction of supply 2.5 General price determination	25%
3.	Factors of Production 3.1 Production function 3.2 Land: Meaning and Characteristics 3.3 Labour: Meaning and Characteristics, Division of Labour - Meaning, merits, and limitations of Division of Labour 3.4 Capital: Meaning and Characteristics, Capital formation 3.5 Entrepreneur: Meaning and Characteristics	25%
4.	Returns to Factors of Production 4.1 Rent: Concepts, Ricardian and Modern theories of rent 4.2 Wage: Meaning, Theories- Marginal Productivity Theory, Modern Theory 4.3 Interest: Meaning, Classical, and loanable theories 4.4 Profit: Meaning, Uncertainty, and profit, Innovations and profit	25%



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

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understand the basic concepts and scope of Economics
2.	Analyze the behavior of the consumer and the producer in the context of demand and supply
3.	Illustrate how the factors of production get returns in economics

Suggested References:	
Sr. No.	References
1	Dewett K.K & Verma J. D. (1996), <i>Elementary Economic Theory</i> , S. Chand Publishing, New Delhi
2	Ahuja, H. L. (2017). <i>Advanced economic theory</i> . S. Chand Publishing. Latest edition
3	Ahuja, H. L. (2016). <i>Modern Economics: An Analytical Study</i> . S. Chand Publishing, latest edition.
4	Mankiw, N. G. (2001). <i>Principles of Microeconomics</i> . Cengage Learning, Boston. Latest edition
5	Andreu, M. C., Michael, D. W., & Jerry, R. G. (1995). <i>Microeconomic theory</i> . Oxford University Press.
6	Malinvaud, E., & Silvey, A. (1985). <i>Lectures on microeconomic theory (Vol. 2)</i> . Amsterdam: North-Holland.
7	Rubinstein, A. (2012). <i>Lecture notes in microeconomic theory: The economic agent</i> . Princeton University Press.
8	Rader, T. (2014). <i>Theory of microeconomics</i> . Academic Press.

**BACHELOR OF SCIENCE
(ECONOMICS)****Syllabus with effect from the Academic Year
2025-26****B.Sc. (Economics) Semester - I**

Course Code	US01MAECO02	Title of the Course	Problems of the Indian Economy – I
Total Credits of the Course	4	Hours per Week	4

Course Objectives:	1. To understand the various characteristics of a developing country like India 2. To know the demographic issues of India 3. To familiarise the students with the inequality, poverty, and unemployment in India
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Course Content		
Unit	Description	Weightage (%)
1.	Concept of Developing Economy 1.1 Meaning and Concept 1.2 Characteristics of an Underdeveloped Nation 1.3 Basic Features of the Indian Economy as a Developing Economy 1.4 Development of the Indian Economy – before and after liberalisation 1.5 Future development prospects for the Indian Economy - promoting and inhibiting factors	25%
2.	Population 2.1 Population Explosion 2.2 Impact of Development on Population Growth 2.3 Relationship between population and economic development – Obstructive or encouraging (demographic dividend) 2.4 Population Growth and India 2.5 Reasons/causes for Population Growth in India 2.6 Demographic Aspects in India: Population Density, Life Expectancy, Sex Ratio – Age Distribution of Population 2.7 Urbanization – its effects	25%
3.	Poverty and Unemployment 3.1 Basic Concepts of Poverty, Vicious Circle of Poverty 3.2 Measurement of Poverty - difficulties in measuring poverty 3.3 Reasons and Causes of Poverty 3.4 Problems caused by poverty 3.5 Concept and types of unemployment 3.6 Causes of unemployment in India 3.7 Various schemes to reduce unemployment and poverty	25%
4.	Income Inequalities 4.1 Meaning and concepts of Income Inequality 4.2 Measurement of income inequality 4.3 Reasons for Income Inequalities 4.4 Income inequality and economic growth 4.5 Challenges and Issues facing Income Inequality 4.6 Problems arising due to income inequality	25%



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

Course Outcomes: Having completed this course, the learner will be able to	
1.	Interpret the characteristics of the Indian economy
2.	Analyse the demographic profile of India
3.	Identify the issues related to inequality, poverty, and unemployment in India

Suggested References:	
Sr. No.	References
1	Agrawal A.N. (2016). Problems of Development & Planning. New Age International Publisher, New Delhi.
2	Datt and Sundaram (2023). Indian Economy, S. Chand & Company Ltd., New Delhi.
3	Prakash B.A. (2011). The Indian Economy Since 1991 Economic Reforms and Performance, Pearson Publication, Delhi.
4	Gopal ji, Suman Banhri, and Anisha Bhakri (2013). Indian Economy Performance and Policies. Pearson Publication Delhi.
5	Misra & Puri (2011). Indian Economy, Himalaya Publication House, Mumbai.
6	Gaurav Datta Ashwani Mahajan (2012). Indian Economy. S. Chand & Company Ltd., New Delhi.
7	Jalan B. (2018). The Indian Economy Problems and Prospects, Viking, New Delhi



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BACHELOR OF SCIENCE
Syllabus with effect from the Academic Year 2025-26
Bachelor of Science Semester – I (Minor Statistics)

Course Code	US01MIEST01	Title of the Course	Elementary Statistics
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	<ol style="list-style-type: none">1. To understand the types of data in scientific and other fields2. To classify data and present graphically in an interpretable way3. To compute various measures of central tendency, dispersion, skewness, and kurtosis with their merits and demerits and their usefulness in real life.4. To understand the application of Descriptive Statistics in the various fields.
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Course Content		
Unit	Description	Weightage (%)
1.	History of Statistics Data: Meaning and Types of Data- Qualitative and Quantitative Data, Primary and Secondary Data, Raw Data, Group Data, Cohort Data, Longitudinal Data, Cross-Sectional Data, Time Series Data, Panel Data Methods of Data Collection- Primary Data Collection- Direct Inquiry, Indirect Inquiry, Schedule & Questionnaire	25%
2.	Presentation of Data: Tabulation: Classification of Qualitative and Quantitative Data, Discrete Frequency Distribution, Continuous Frequency Distribution- Sturges' Rule, Cumulative Frequency Distribution Graphical Presentation: Diagrams- Importance and limitations of diagrams in statistics, Types of Diagrams - Pie Diagrams, Bar Diagram, Multiple Bar Diagram (Clustered Bar Diagram), Simple Divided Bar Diagram (Stacked Bar Diagram), Histogram, Box Plot, Normal Probability Plot	25%
3.	Measures of Central Tendency for Raw and Group Data and their Applications, Advantages, and Disadvantages Arithmetic Mean, Median, Mode, Geometric Mean, Harmonic Mean, Trimmed Mean, Weighted Mean, Pooled Mean, Quartiles, Deciles, Percentiles	25%
4.	Measures of Dispersion for Raw and Group Data and their Applications Absolute and Relative Measures, Advantages and Disadvantages, Range, Inter-Quartile Range, Quartile Deviation, Variance, Standard Deviation, Average Deviation from Mean and Median, Measure of Consistency or Reliability- Coefficient of Variation, Coefficient of Mean Deviation from Median, Coefficient of Mean Deviation from Mode - Advantages and Disadvantages	25%

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

Course Outcomes: Having completed this course, the learner will be able to	
1.	Classified the data with reference to its types.
2.	Select and evaluate suitable measures of central tendency and measures of dispersion for the data.
3.	Present data in a graphical form and be able to write its interpretation.
4.	Able to study the reliability of data through the measure of consistency.

Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching /learning the content in the course outline
1	Goon, Gupta, and Dasgupta (1983). Fundamentals of Statistics, Vol. I, Calcutta World Press Pvt. Ltd., Calcutta
2	B.L. Agrawal (2004). Programmed Statistics, New Edge Publication Ltd.
3	Z.C. Holcomb and Keith Cox (2014). Interpreting Basic Statistics; Routledge Pvt. Ltd.
4	S.M. Ross (2006). Introductory Statistics, Academic Press, Reed Elsevier India Pvt. Ltd.
5	M.J. Mohan Rao and V.P. Rao (2014). A Text Book of B.Sc. Statistics Vol. I, Himalaya Publishing House.
6	S.R. Chaudhari and D.P. Raykundaliya (2025). Statistical Analysis Made Simple Using Microsoft Excel; Madhuvan Publication, Vallabh Vidyanagar.

**BACHELOR OF SCIENCE
(ECONOMICS)****Syllabus with effect from the Academic Year
2025-26****B.S. (Economics) Semester – I**

Course Code	US01MDEMA01	Title of the Course	Elementary Mathematics
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	<ol style="list-style-type: none">1. To familiarise the students with the variables and their types.2. To make the students aware of the forms of functions and equations.3. To make the students aware of the applications of mathematics in basic financial economics.4. To explain the set theory and its utility.
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Course Content		
Unit	Description	Weightage* (%)
1.	Introduction to mathematics, Concepts of a constant, variables and parameters, Types of variables and their applications in economic analysis, Graphical presentation of constant and variable	25%
2.	Mathematics in financial economics: Compound interest, nominal and effective rates of interest, continuous compounding, Concept of present value and amount of a sum, Annuity (only for a fixed period of time), present value of annuity, sinking funds (with equal payments and equal time intervals)	25%
3.	Meaning of equation, Types of equations, Solution of linear equation, Various methods for solving the Quadratic equation –Factorisation and mathematical formula, Solution of simultaneous equations - cross multiplication, substitution, and elimination methods, Utilisation of equations in economic analysis	25%
4.	Set Theory: Sets, subsets, equality of two sets, null set, universal set, Complement of a set, union and intersection of sets, Difference of two sets, Venn diagram, De Morgan laws, Cartesian product of two sets Function: Meaning of function, Forms of the function, Types of function, Domain and range of the function, Application of function in economic analysis	25%

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

Course Outcomes: Having completed this course, the learner will be able to	
1.	Identify the economic variables and its types.
2.	Understand and to form the economic functions and equations.
3.	Calculate the value of some important financial parameters.
4.	Understand and perform various processes on set.

Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching /learning the content in the course outline
1	Ching A C; Fundamental Methods of Mathematical Economics, McGraw-Hill, New York
2	Gupta S C; Fundamentals of Applied Statistics. S. Chand & Sons, New Delhi
3	Grewal P S; Numerical Methods of Statistical Analysis, S P Pvt. Ltd., New Delhi
4	Bose D.; An Introduction to Mathematical Economics, H P H. Bombay, Delhi
5	Gupta C.B.; An Introduction to Statistical Methods, S. Chand & Sons, Delhi.
6	Allen R.G.D.: Basic Mathematics, Macmillan, New Delhi
7	Kapoor, V.K.: Business Mathematics, Sultan Chand and Sons, New Delhi
8	Loomba, Paul: Linear Programming, Tata McGraw-Hill, New York
9	Sharma J.K.: Mathematics for Management and Computer Application, Galgotia Publications Pvt. Ltd, New Delhi
10	Soni, R.S.: Business Mathematics, Pitamber Publishing House
11	Vohra N.D.: Quantitative Techniques in Management, Tata McGraw-Hill, New Delhi.

**BACHELOR OF SCIENCE (ECONOMICS)****Syllabus with effect from the Academic Year 2025-26****B.Sc. (Economics) Semester – I****ABILITY ENHANCEMENT COURSE**

Course Code	US01AEEEN01	Title of the Course	General English
Total Credits of the Course	2	Hours per Week	2

Course Objectives:	The paper is designed to enhance the language proficiency of students in both English and non-English streams. It focuses on the textual learning as well as grammatical and creative writing components.
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Course Content		
Text: College Collage: English Coursebook for College Students (Macmillan Publishers India Pvt. Ltd.)		
Unit	Description	Weightage (%)
1.	Chapters from the text: <ul style="list-style-type: none">A Snake in the GrassThe Three Questions	50%
2.	A. Grammar Part 1 <ul style="list-style-type: none">Parts of SpeechArticles IPrepositions ISubject –Verb Agreement B. Reading Comprehension	50%

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



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3.	University Examination	50%
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Course Outcomes: Having completed this course, the learner will be able to	
1.	Convey his/her ideas in English using simple and acceptable English in writing.
2.	Understand to recognize and draft different types of writing – e.g. classroom notes, summaries, reports, exploratory and descriptive paragraphs, substantiating etc.
3.	Develop a proper understanding of various literary pieces.
4.	Gain sound knowledge of grammar, which will enhance their language accuracy.
5.	Augment the art of comprehending.

Question Paper Format for Semester-end University Exam: 50 Marks		50 Marks
Q. 1	Brief Answers (Attempt Any Five) based on Units 1 and 2	15 Marks
Q. 2	Short notes (Attempt Any One) based on Units 1 and 2	10 Marks
Q. 3	Based on Unit 3	
	1. Fill in the blanks – Articles	05 Marks
	2. Fill in the blanks – Prepositions	05 Marks
	3. Fill in the blanks – Verb	05 Marks
Q. 4	Based on Unit 3	
	Reading Comprehension	10 Marks

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2025-26****B.Sc. (Economics) Semester – I**

Course Code	US01SECAE01	Title of the Course	Computer Applications for Economics
Total Credits of the Course	02	Hours per Week	04

Course Objectives:	1. To familiarize the students with word processor. 2. To introduce the presentation tools. 3. To explain the components and utility of spreadsheet.
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Course Content		
Unit	Description	Weightage* (%)
1.	Word Processing: Creating, editing, saving and printing word document Usage of various tools of Menu Bar and various functions of word processor Presentation: Creating, editing, saving, and presenting PowerPoint Presentation, Running a Slide Show, Transition and Slide Timings, Automating a Slide Show, Usage of various tools of the Menu Bar, and multiple functions of Presentation tools	50%
2.	Spread Sheet: Elements of Electronic Spread Sheet, Opening of Spread Sheet, Addressing of Cells, Printing of Spread Sheet, Saving Workbooks, Manipulation of Cells, Entering Text, Numbers and Dates, Creating Text, Number and Date Series, Editing Worksheet Data, Inserting and Deleting Rows, Columns, Changing Cell Height and Width, Function and Charts, Using Formulas	50%

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

Course Outcomes: Having completed this course, the learner will be able to	
1.	Use the word processor to create a Word document



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2.	Use the presentation tools to create an effective presentation
3.	Perform various basic processes in a spreadsheet

Suggested References:

Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching /learning the content in the course outline
1	French C.S. (1998), "Data Processing and Information Technology", BPB Publications
2	Sinha P.K (1992), "Computer Fundamentals", BPB Publications
3	Davis G. H. (1998) "The ABCs of Microsoft Office 97 Professional edition", BPB Publications
4	Schwartz K. (1998), "Microsoft Windows 98 Training Guide"
5	Gupta V. (2007), "Comdex Computer Course Kit" Comdex
6	Rajaraman (2003), "Fundamentals of Computers", PHI Publication, New Delhi

**BACHELOR OF SCIENCE (ECONOMICS)****Syllabus with effect from the Academic Year 2025-26****B.Sc. (Economics) Semester - I**

Course Code	US01IKBSC10	Title of the Course	Kautilya's Arthashastra
Total Credits of the Course	02	Hours per Week	02

Course Objectives:	<ol style="list-style-type: none">5. To introduce students to the terms and methodology of the Ancient Indian Economic systems6. To facilitate students to gain the ability to understand the economics and commerce of Kautilya Niti7. To encourage interdisciplinary learning from the contemporary application of Economics from Kautilya's Arthashastra
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Course Content		
Unit	Description	Weightage* (%)
1.	Sriram Balasubramanian's take on contemporary views on Kautilya's Arthashastra 1.1 Socio-economic heritage as the foundation of economic prosperity 1.2 Dharmic capitalism and its components 1.3 State-market dynamics 1.4 Sustainable growth through societal and familial responsibilities	50%
2.	Kanagasabapathi's take on the application of Kautilya's Arthashastra in contemporary times 2.1 Virtue of savings 2.2 Organizations to facilitate business and economies 2.3 Systems and societal values facilitating businesses and economics 2.4 Learning lessons for global economic crises	50%

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

Course Outcomes: Having completed this course, the learner will be able to	
1.	Explain the basic tenets of economics and commerce in Kautilya's Arthashastra
2.	Discuss the methodology of the Ancient Indian economic systems and their contemporary applications
3.	Critically analyse the commerce and economic aspects of Chanakya Neeti for contemporary times



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Suggested References:

Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching /learning the content in the course outline
1	Rangarajan, L. N. (Ed.). (1992). The Arthashastra. Penguin Books India.
2	Shamasastri, R. (2017). The Arthashastra Kautilya. Penguin Random House Pvt. Ltd. ISBN: 978-0143441700
3	Balasubramanian, Sriram (2022). Kautilyanomics. Bloomsbury Publishing India Pvt. Ltd. ISBN: 978-9354350368
4	Kanagasabapathi, P. (2012). Indian Models of Economy, Business and Management . Prentice Hall India Learning Private Limited; 3rd edition. ISBN: 978-8120345638 https://www.youtube.com/watch?v=KB9L9nj6vvo
5	Kajari, Kamal (2023). Kautilya's Arthashastra: Strategic Cultural Roots of India's Contemporary Statecraft. Taylor & Francis Books India Pvt. Ltd.; 1st edition. ISBN: 978-1032585215