ORDINANCES, TEST OUTLINES, SYLLABI and READING COURSES

For

B.A. Part I
(Semester I & II)

Academic Sessions
2025–26 and 2026–27

Under
Choice-Based Credit System (CBCS)
Scheme of

NEP 2020

PROGRAMME CODE: B.A. Part I

DEPARTMENT OF ECONOMICS

GURU NANAK COLLEGE BUDHLADA

AN AUTONOMOUS COLLEGE

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Kulwinder Singh

SYLLABI, OUTLINES OF PAPERS AND TESTS FOR

BA I (Semester I) Session 2025-26					
Paper Code	**Name of the Paper**	**Internal**	**External**	**Total**	**Credits**
BAMJECO1113T: MAJOR – 1	**Micro Economics**	**30**	**70**	**100**	**4**
BAMNECO1145T: MINOR – 1	**Micro Economics**	**30**	**70**	**100**	**4**
BAIDECO1146T: IDC / MDC – 1	**Basic Economics – I**	**30**	**70**	**100**	**3**
BASEECO1147T: SEC – 1	**Data Analytics – I**	**30**	**70**	**100**	**3**

BA I (Semester II) Session 2025-26					
Paper Code	**Name of the Paper**	**Internal**	**External**	**Total**	**Credits**
BAMJECO1213T: MAJOR – 2	**Macro Economics**	**30**	**70**	**100**	**4**
BAMNECO1245T: MINOR – 2	**Macro Economics**	**30**	**70**	**100**	**4**
BAIDECO1246T: IDC / MDC T– 1	**Basic Economics – II**	**30**	**70**	**100**	**3**
BASEECO1247T: SEC – 2	**Data Analytics – II**	**30**	**70**	**100**	**3**

S. No.	Paper Title	Hours				
		Lect.	Tut.	Pract.	Seminar/ Consult.	Total Credits
Semester – 1						
1	**BAMJECO1113T**: MAJOR – 1 Micro Economics	4	-	-	1	4
2	**BAMNECO1145T**: MINOR – 1 Micro Economics	4	-	-	1	4
3	**BAIDECO1146T**: IDC / MDC–1 Basic Economics – I	3	-	-	1	**3**
4	**BASEECO1147T**: SEC – 1 Data Analytics – I	2	-	-	1	2
Semester – 2						
1	**BAMJECO1213T**: MAJOR – 2 Macro Economics	4	-	-	1	4
2	**BAMNECO1245T**: MINOR – 2 Macro Economics	4	-	-	1	4
3	**BAIDECO1246T**: IDC / MDC–2 Basic Economics – II	3	-	-	1	3
4	**BASEECO1247T**: SEC – 2 Data Analytics – II	3	-	-	1	3

The Break-up of 30 Marks for Internal Assessment (Theory papers – MAJOR, MINOR, IDC/MDC and SEC):

Mid-Semester Test	= 12 Marks
Project Work/Assignment/Seminar/Field Work etc.	= 12 Marks
Class Attendance	= 06 Marks
Total Marks	= 30 Marks

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SEMESTER I
MAJOR-1
Subject code: BAMJECO1113T
Subject Name: Micro Economics

Course Outcomes:

This course enables students to explore the intricate functioning of individual economic units—consumers, firms, and markets. By engaging with concepts such as demand, supply, elasticity, and production decisions, learners will develop a refined ability to interpret how choices are made under scarcity. It trains them to recognize the logic behind pricing mechanisms, efficiency, and market equilibrium, while also examining the causes of market failures. Ultimately, students will emerge with sharper analytical reasoning, the ability to apply microeconomic insights to practical situations, and a foundation that strengthens both academic growth and real-world problem-solving skills.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 12 marks each. Section C will be compulsory, consisting of 11 short-answer type questions, carrying 2 marks each (each to be answered in about 100 words) which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section C.

SECTION -A

Meaning & Demand Analysis: Meaning and Scope of Economics; Definition of Economics (Adam Smith, Marshall and Robbins). Theory of Demand and Consumer Behaviour: Utility Analysis and Indifference Curve Analysis; Consumer's Surplus and its measurement; Elasticity of Demand and its measurement.

Theory of Production & Revenue: Concept and types of Production Function, Laws of Returns to Scale and Law of Variable Proportions; Cost Concepts and Cost Curves in the Short and the Long Periods. Concepts of Revenue: Marginal Revenue, Average Revenue and Total Revenue and their Mutual Relationship. Average and Marginal Revenue Curves under Different Market Forms.

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SECTION - B

Market Equilibrium: Price and Output Determination of the Firm and Industry under Perfect Competition, Monopoly and Monopolistic Competition in the short and long run.

Theory of Rent, Interest & Profit: Rent: Ricardian and Modern theories of rent. Theory of Interest: Classical and Loanable Funds. Profit: Risk and Uncertainty Theories.

RECOMMENDED READINGS

Koutsoyiannis, A.:	*Modern Micro-Economics*, MacMillan, 1979
A.W. Stonier and D.C.Hauge:	A Text Book of Economic Theory (Fourth edition)
Stigler, GJ:	*Theory of Price*, MacMillan, 1987.
Dean, J.:	*Managerial Economics*, PHI, 1988.
Mote, V.L., Paul Samuel & Gupta GS:	*Managerial Economics*, Tata McGraw Hill Publishing Company Ltd,
Henderson, J.M. & Guandt, R.B.:	*Micro Economic Theory: A Mathematical Approach*, McGraw Hill, 1971.

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MINOR-1
Subject code: BAMNECO1145T
Subject Name: Micro Economics

Course Outcomes:

This course enables students to explore the intricate functioning of individual economic units—consumers, firms, and markets. By engaging with concepts such as demand, supply, elasticity, and production decisions, learners will develop a refined ability to interpret how choices are made under scarcity. It trains them to recognize the logic behind pricing mechanisms, efficiency, and market equilibrium, while also examining the causes of market failures. Ultimately, students will emerge with sharper analytical reasoning, the ability to apply microeconomic insights to practical situations, and a foundation that strengthens both academic growth and real-world problem-solving skills.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 12 marks each. Section C will be compulsory, consisting of 11 short-answer type questions, carrying 2 marks each (each to be answered in about 100 words) which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section C.

SECTION -A

Meaning & Demand Analysis: Meaning and Scope of Economics; Definition of Economics (Adam Smith, Marshall and Robbins). Theory of Demand and Consumer Behaviour: Utility Analysis and Indifference Curve Analysis; Consumer's Surplus and its measurement; Elasticity of Demand and its measurement.

Theory of Production & Revenue: Concept and types of Production Function, Laws of Returns to Scale and Law of Variable Proportions; Cost Concepts and Cost Curves in the Short and the Long Periods. Concepts of Revenue: Marginal Revenue, Average Revenue and Total Revenue and their Mutual Relationship. Average and Marginal Revenue Curves under Different Market Forms.



SECTION - B

Market Equilibrium: Price and Output Determination of the Firm and Industry under Perfect Competition, Monopoly and Monopolistic Competition in the short and long run.

Theory of Rent, Interest & Profit: Rent: Ricardian and Modern theories of rent. Theory of Interest: Classical and Loanable Funds. Profit: Risk and Uncertainty Theories.

RECOMMENDED READINGS

Koutsoyiannis, A.:	*Modern Micro-Economics*, MacMillan, 1979
A.W. Stonier and D.C.Hauge:	A Text Book of Economic Theory (Fourth edition)
Stigler, GJ.:	*Theory of Price*, MacMillan, 1987.
Dean, J.:	*Managerial Economics*, PHI, 1988.
Mote, V.L., Paul Samuel & Gupta GS.:	*Managerial Economics*, Tata McGraw Hill Publishing Company Ltd,
Henderson, J.M. & Guandt, R.B.:	*Micro Economic Theory: A Mathematical Approach*, McGraw Hill, 1971.

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IDC / MDC – 1
Subject code: BAIDECO1146T
Subject Name: Basic Economics – I

Course Outcomes:

This introductory course provides students with a broad yet insightful view of economics as a discipline that shapes daily choices and societal progress. It highlights fundamental principles such as scarcity, opportunity cost, and the allocation of resources, while also underscoring the relevance of economics in understanding social and developmental concerns. Through simple yet meaningful examples, learners grasp how economic reasoning operates in real life. The course nurtures curiosity, logical thinking, and awareness of the broader economic environment, preparing students for deeper study and equipping them to view the world with an analytical and informed perspective.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 12 marks each. Section C will be compulsory, consisting of 11 short-answer type questions, carrying 2 marks each (each to be answered in about 100 words) which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section C.

SECTION – A: Micro Economics

Meaning & Theory of Consumer Behaviour: Definition of Economics (Adam Smith, Marshall and Robbins); Demand (Meaning, Change in Demand, Factors affecting demand); Elasticity of Demand (Meaning, Types, Degrees); Utility (Meaning, Types); Indifference Curve Analysis (Meaning, Properties, Budget line).

Theory of Production & Revenue: Concept and types of Production, Costs and Revenue.

Market Equilibrium: Meaning and Features of Perfect Competition, Monopoly and Monopolistic Competition.

Theory of Rent & Profit: Meaning & Concepts of : Rent & Profit.

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SECTION – B: Macro Economics

Macro Economics and National Income: Meaning, Difference between micro and macro-economics. Concepts of National Income – GDP, GNP, NDP and NNP at market prices and factor cost, Intermediate and Final Goods.

Macro-Economic Theory: Brief introduction to Classical Theory of Income and Employment, Say's Law of market, Keynesian Theory of Employment and Principle of Effective Demand.

Consumption, Investment and Marginal Efficiency of Capital: Concepts & Types.

Inflation: Concept, Types, Causes and Effects. **Trade Cycles**: Meaning and Phases.

RECOMMENDED READINGS (Micro Economics)

A.W. Stonier and D.C. Hauge: A Text Book of Economic Theory (Fourth ed.) Part-I.

Koutsoyiannis, A.: *Modern Micro-Economics,* MacMillan, 1979

Stigler, GJ.: *Theoryof Price,* MacMillan, 1987.

Dean, J.: *Managerial Economics,* PHI, 1988.

Mote, V.L., Paul Samuel & Gupta GS.: *Managerial Economics,* Tata McGraw Hill PublishingCompany Limited, 1994.

Henderson, J.M. &Guandt, R.B.: *Micro Economic Theory: A Mathematical Approach,* McGraw Hill, 1971.

RECOMMENED READINGS (Macro Economics)

O.P. Sharma: Macro Economics (Punjabi Medium), Punjabi University, Patiala.

R.D. Gupta: Keynes Post-Keynesian Economics, Kalyani Publications, Ludhiana.

P.N. Chopra: Macro Economics, Kalyani Publications, Ludhiana.

H.L. Ahuja: Macro Economics-Theory and policy, S. Chand, New Delhi.

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SEC – 1
Subject code: BASEECO1147T
Subject Name: Data Analytics – I

Course outcomes:

This course introduces students to the power of data as a language of evidence and decision -making. It cultivates an understanding of how raw information can be transformed into meaningful insights through basic tools of collection, classification, and presentation. Learners are trained to approach economic and social questions with quantitative clarity, supported by visualization and interpretation. Beyond statistical techniques, the course instills confidence in handling information systematically and appreciating its role in shaping rational decisions. By the end, students will possess the skill to see data not merely as numbers but as a narrative of patterns and possibilities.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 06 marks each. Section C will be compulsory, consisting of eleven short-answer type questions, carrying 01 mark each (each to be answered in about 100 words, which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section C.

Section – A

- **Research Design:**Meaning , Need, Important Concepts, Different Research Designs.
- **Methods of Data Collection:** Observation Method, Interview Method, Collection of Data through Questionnaires and Schedules, Difference between Questionnaires and Schedules, Collection of Secondary Data.
- **Sampling Design:** Census and Sample Survey, Steps in Sampling Design, Different Types of Sample Designs, Random Sample from an Infinite Universe, Complex Random Sampling Designs.



Section-B

- **Measurement and Scaling Techniques:** Sources of Error in Measurement, Scaling, Meaning of Scaling, Important Scaling Techniques.
- **Data Analytics with MS-Excel:** Elementary Data Entry (all components), Entering Excel Formulas and Formatting Data.

RECOMMENED READINGS

1. Grewal. P.S., Numerical Methods of Statistical Analysis, Sterling Publishers Pvt. Ltd.. New Delhi. 1987.
2. Gupta, S.P.. Statistical Methods. Sultan Chand & Sons. New Delhi, 2000
3. Kapur, J.N. and Sexena, H.C.. Mathematical Statistics, S. Chand & Company Ltd., New Delhi. 1981.
4. Yule, C.V. and Kendall, M.G. : Introduction to the Theory of Statistics, Charles Grifin& Co., London. 1961.
5. W.S. Jaswadekar, Management Information System, Tata McGraw Hill Publishing.
6. A ZavaAktas, Structured Analysis & Design of Information System, PHI.
7. V. Rajaraman, Analysis & Design of Information System. PHI.
8. J. Kanter, Management/Information System, PHI.
9. Gorden B. Davis & M.H. Olson, Management Information System: Conceptional Foundation, Structure and Development.
10. Robert G. Murdick& Joel F. Ross & James R. Claggett, Information Systems for Modern Management, PHI.

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Semester II
MAJOR – 2
Subject code: BAMJECO1213T
Subject name: Macro Economics

Course outcomes:

This course elevates the learner's perspective from individual markets to the functioning of the economy as a whole. It explores the behavior of aggregate variables such as national income, inflation, unemployment, money, and growth, enabling students to understand the interconnectedness of economic systems. By studying fiscal and monetary policies, learners develop the ability to critically evaluate governm ent interventions and global economic trends. The course also highlights challenges such as price instability and economic disparities. By the end, students acquire not only theoretical insights but also the intellectual maturity to interpret economic indicators and their impact on society.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 06 marks each. Section C will be compulsory, consisting of eleven short-answer type questions, carrying 01 mark each (each to be answered in about 100 words, which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section C.

SECTION -A

Macro Economics: Meaning, Scope and importance of macro-economics, Difference between micro and macro-economics.

National Income: Concepts of National Income – GDP, GNP, NDP and NNP at market prices and factor cost; Measurement of National Income: Product, Income and Expenditure methods; Difficulties in the calculation of national income.

Circular flow of Income and Expenditure: Importance of circular flow. Circular flow in two, three and four-sector economy.

Macro-Economic Theory: Classical Theory of Income and Employment; Say's Law of market; Implications of Say's Law; Keynesian Theory of Employment, Principle of Effective Demand – Determinants of effective demand, Importance of effective demand.

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SECTION-B

Consumption Function: Average and Marginal Propensity to Consume; Factors affecting consumption; Keynes' Psychological Law of Consumption.

Investment Function: Meaning and types; Determinants of Investment–Marginal Efficiency of Capital& Rate of Interest; Factors affecting investment decisions.

Inflation: Concept, Types, Causes and Effects. Theories of Inflation: Demand pull and Cost-push; Control of Inflation.

Trade Cycles: Meaning and Phases.

RECOMMENED READINGS

1. T.F. Durnbarg and McDougal: Macro Economics, McGraw Hill, New York, 1976 (full book).
2. O.P.Sharma: Macro Economics (Punjabi Medium), Punjabi University, Patiala.
3. M.C.Vaish, Macro Economic Theory, Vikas Publishing House, New Delhi.
4. Harvey J and Johnson M: Introduction to Macro Economics, McMillan and London.
5. R.D. Gupta: Keynes Post-Keynesian Economics, Kalyani Publications, Ludhiana.
6. P.N. Chopra: Macro Economics, Kalyani Publications, Ludhiana.
7. H.L. Ahuja: Macro Economics-Theory and policy, S. Chand, New Delhi.
8. Rana and Verma: Macro Economic Analysis, Vishal Publishing House, Delhi.
9. Edward Shapiro: Macro Economic Analysis Galgotia publications, New Delhi.
10. D.N. Dwivedi: Macro Economics Theory and Policy, McGraw Hill Education, Pvt Limited, Chennai.

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MINOR – 2
Subject code: BAMNECO1245T
Subject name: Macro Economics

Course outcomes:

This course elevates the learner's perspective from individual markets to the functioning of the economy as a whole. It explores the behavior of aggregate variables such as national income, inflation, unemployment, money, and growth, enabling students to understand the interconnectedness of economic systems. By studying fiscal and monetary policies, learners develop the ability to critically evaluate government interventions and global economic trends. The course also highlights challenges such as price instability and economic disparities. By the end, students acquire not only theoretical insights but also the intellectual maturity to interpret economic indicators and their impact on society.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS FOR THE PAPER SETTER

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 06 marks each. Section C will be compulsory, consisting of eleven short-answer type questions, carrying 01 mark each (each to be answered in about 100 words, which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section C.

SECTION -A

Macro Economics: Meaning, Scope and importance of macro-economics, Difference between micro and macro-economics.

National Income: Concepts of National Income – GDP, GNP, NDP and NNP at market prices and factor cost; Measurement of National Income: Product, Income and Expenditure methods; Difficulties in the calculation of national income.

Circular flow of Income and Expenditure: Importance of circular flow. Circular flow in two, three and four-sector economy.

Macro-Economic Theory: Classical Theory of Income and Employment; Say's Law of market; Implications of Say's Law; Keynesian Theory of Employment, Principle of Effective Demand – Determinants of effective demand, Importance of effective demand.

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SECTION-B

Consumption Function: Average and Marginal Propensity to Consume; Factors affecting consumption; Keynes' Psychological Law of Consumption.

Investment Function: Meaning and types; Determinants of Investment–Marginal Efficiency of Capital& Rate of Interest; Factors affecting investment decisions.

Inflation: Concept, Types, Causes and Effects. Theories of Inflation: Demand pull and Cost-push; Control of Inflation.

Trade Cycles: Meaning and Phases.

RECOMMENED READINGS

1. T.F. Durnbarg and McDougal: Macro Economics, McGraw Hill, New York, 1976 (full book).
2. O.P.Sharma: Macro Economics (Punjabi Medium), Punjabi University, Patiala.
3. M.C.Vaish, Macro Economic Theory, Vikas Publishing House, New Delhi.
4. Harvey J and Johnson M: Introduction to Macro Economics, McMillan and London.
5. R.D. Gupta: Keynes Post-Keynesian Economics, Kalyani Publications, Ludhiana.
6. P.N. Chopra: Macro Economics, Kalyani Publications, Ludhiana.
7. H.L. Ahuja: Macro Economics-Theory and policy, S. Chand, New Delhi.
8. Rana and Verma: Macro Economic Analysis, Vishal Publishing House, Delhi.
9. Edward Shapiro: Macro Economic Analysis Galgotia publications, New Delhi.
10. D.N. Dwivedi: Macro Economics Theory and Policy, McGraw Hill Education, Pvt Limited, Chennai

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IDC / MDC – 2
Subject code: BAIDECO1246T
Subject name: Basic Economics – II

Course outcomes:

This course builds upon foundational knowledge and guides students into a deeper engagement with applied aspects of economics. Learners examine how different market structures influence pricing, production, and competition, while also exploring the state's role in regulation and welfare. Special attention is given to growth, development, and sustainability, connecting theory with pressing contemporary issues. The course encourages critical reflection on economic planning and the pursuit of collective well-being. By completion, students will develop advanced reasoning, the capacity to connect abstract principles with real challenges, and a readiness for further specialization in economic thought.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS TO THE PAPER-SETTER

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 12 marks each. Section C will be compulsory, consisting of 11 short-answer type questions, carrying 2 marks each (each to be answered in about 100 words) which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section.

Section – A

Indian Economy: Nature and Characteristics; Role of Agriculture, Industry and Service Sectors in Economic Development.

Planning in India: Need, Objectives and Achievements; NITI Aayog.

Problems of Indian Economy: Poverty and Unemployment – Causes and Suggestions.

Agriculture: Green Revolution – Factors responsible, Implications and Problems. Problems of Small Farmers and Agricultural Labourers.

Section – B

Money: Meaning, Types & Functions. **Insurance**: Meaning, Types, Principles.

Central and Commercial Banks: Meaning and Functions. **Monetary Policy:** Meaning, Objectives and Instruments.

Statistics: Definition & Functions. **Collection of Data:** Primary and Secondary data – Meaning & Methods / Sources.

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Sampling: Meaning and Methods. **Classification, Tabulation and Graphical Presentation of Data:** Meaning and Types.

RECOMMENED READINGS

Indian Economy

1. Puri, V.K. and Mishra, S.K.: Indian Economy, Himalaya Publishing House, New Delhi.
2. Dutt, Ruddra and Sundaram, K.P.M.: Indian Economy, S. Chand and Company Ltd., New Delhi.
3. Aggarwal, A.N.: Indian Economy: Nature, Problem & Progress, Vikas Publishing House, New Delhi.
4. Wadhawa, C.D.: Some Problems of India's Economic Policy, Tata McGraw Hill Publishing P. Ltd., New Delhi.
5. Ghosh, Alak: Indian Economy: Its Nature and Problems, The World Press Pvt. Ltd.
6. R.N. Soni, Leading Issues in Agricultural Economics, (1997).

Money, Banking and Insurance

1. Suraj B. Gupta: Monetary Economics-Institutions, Theory and Policy. S. Chand and Company Ltd. Delhi.
2. H.R. Suneja : Innovations in Banking Services.Himalaya Publishing House.
3. T.N. Hajela: Money and Banking published by Anne Books Pvt. Ltd.
4. Sundaram & Varshney: Banking Theory – Law and Practice, Sultan Chand & Sons, New Delhi.
5. P.N. Varshney: Banking Law and Practice, Sultan Chand & Sons, New Delhi.
6. Shubham Kothari: Basics of Insurance, Sankalp Publication, New Delhi.
7. P. Pirakatheeswari: Fundamentals of Insurance, Notion Press, Chennai.
8. D. Sekharan: Fundamental of Banking and Insurance, Notion Press, Chennai.

Statistics

1. Grewal. P.S., Numerical Methods of Statistical Analysis, Sterling Publishers Pvt. Ltd.. New Delhi. 1987.
2. Gupta, S.P.. Statistical Methods. Sultan Chand & Sons. New Delhi, 2000

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SEC – 2
Subject code: BASEECO1247T
Subject name: Data Analytics – II

Course outcomes:

This advanced course equips students with refined techniques of data analysis, enabling them to go beyond description toward deeper inference. It introduces correlation, regression, hypothesis testing, and time-series analysis as tools to decode complex datasets. Learners are trained to handle economic and social data with precision, drawing insights that inform decisions and policies. The course emphasizes both technical competence and interpretative wisdom, ensuring that students understand the story behind the numbers. By the end, learners will emerge capable of applying analytical reasoning to varied domains, appreciating data as a bridge between theory and reality.

Maximum Marks: 100	Pass Marks: 35 % of Maximum Marks*
Internal Assessment: 30 Marks	*(*separately in Internal and External)*
External Assessment: 70 Marks	Time Allowed: 3 Hours

INSTRUCTIONS FOR THE CANDIDATES

The question paper will consist of three sections: A, B and C. Sections A and B will have four questions each, carrying 12 marks each. Section C will be compulsory, consisting of 11 short-answer type questions, carrying 2 marks each (each to be answered in about 100 words) which will cover the entire syllabus uniformly.

INSTRUCTIONS FOR THE CANDIDATES

Candidates are required to attempt five questions in all, selecting two questions from each of the Sections A and B, and the entire Section C.

Section-A

- **Tabulation of Data:** Various formats.
- **Diagrammatic and Graphic Presentation of Data:** Various diagrams and Graphs.

Section-B

- **Processing through MS-Excel:** Sorting and Filtering, Generating Graphs and Diagrams, Processing data through Insert Functions.

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1. Grewal. P.S., Numerical Methods of Statistical Analysis, Sterling Publishers Pvt. Ltd.. New Delhi. 1987.
2. Gupta, S.P.. Statistical Methods. Sultan Chand & Sons. New Delhi, 2000
3. Kapur, J.N. and Sexena, H.C.. Mathematical Statistics, S. Chand & Company Ltd., New Delhi. 1981.
4. Yule, C.V. and Kendall, M.G. : Introduction to the Theory of Statistics, Charles Grifin& Co., London. 1961.
5. W.S. Jaswadekar, Management Information System, Tata McGraw Hill Publishing.
6. A ZavaAktas, Structured Analysis & Design of Information System, PHI.
7. V. Rajaraman, Analysis & Design of Information System. PHI.
8. J. Kanter, Management/Information System, PHI.
9. Gorden B. Davis & M.H. Olson, Management Information System: Conceptional Foundation, Structure and Development.
10. Robert G. Murdick & Joel F. Ross & James R. Claggett, Information Systems for Modern Management, PHI.

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