



Department of Economics

Scheme of Examination and Syllabus for Under Graduate Programme

**Under Multiple Entry and Exit, Internship and
CBCS-LOCF as per NEP-2020
w.e.f. session 2024-25 (in phased manner)**

Subject: Economics



**Guru Jambheshwar University of Science
& Technology Hisar-125001, Haryana**

(A+ NAAC Accredited State Govt. University)



Guru Jambheshwar University of Science and Technology
Hisar-125001, Haryana
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Scheme of Examination & Syllabus for affiliated Degree Colleges for UG Programme
According to National Education Policy-2020

Subject: Economics

SEMESTER I								
Type of Course	Course Code	Nomenclature	Credit	Contact Hrs.	Internal Marks	External Marks	Total Marks	Duration of Exam (Hrs.)
Discipline Specific Course	C24ECO101T	Micro Economics-I	4 (3L+1T)	4	30	70	100	3
Discipline Specific Course [#]	C24ECO102T	Macro Economics-I	4 (3L+1T)	4	30	70	100	3
Minor Course/ Vocational Course	C24MIC106T	Ancient Indian Economic History: Vedic Period to 1 BC	2	2	15	35	50	2
Minor Course/ Vocational Course [#]	C24MIN106T	Statistics for Economics-I	4 (3L+1T)	4	30	70	100	3
Multidisciplinary Course	C24MDC109T	Understanding Union Budget	3 (2L+1T)	3	25	50	75	2.5
Skill Enhancement Course	C24SEC106T	Computer Applications in Economics-I	2	2	15	35	50	2
	C24SEC106P	Computer Applications in Economics-I Lab	1	2	10	15	25	2
Value Added Course	C24VAC115T	Indian Polity and Economy	2	2	15	35	50	2
SEMESTER-II								
Type of Course	Course Code	Nomenclature	Credit	Contact Hrs.	Internal Marks	External Marks	Total Marks	Duration of Exam (Hrs.)
Discipline Specific Course	C24ECO201T	Micro Economics- II	4 (3L+1T)	4	30	70	100	3
Discipline Specific Course [#]	C24ECO202T	Macro Economics- II	4 (3L+1T)	4	30	70	100	3
Minor Course/ Vocational Course	C24MIC206T	Indian Economy from Post- Independence	2	2	15	35	50	2
Minor Course/ Vocational Course [#]	C24MIN206T	Statistics for Economics-II	4 (3L+1 T)	4	30	70	100	3
Multidisciplinary Course	C24MDC209T	Economics of Banking and Finance	3 (2L+1T)	3	25	50	75	2.5
Skill Enhancement Course	C24SEC206T	Computer Applications in Economics-II	2	2	15	35	50	2
	C24SEC206P	Computer Applications in Economics-II Lab	1	2	10	15	25	2
Value Added Course	C24VAC115T	Indian Polity and Economy	2	2	15	35	50	2

[#] For Scheme C only

PROGRAMME OUTCOMES (POs)

- PO1 To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behaviour, economic policies and economic institutions and economic problems.
- PO2 To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them
- PO3 To make students aware of resource optimization at all level.
- PO4 To provide learning experience in students that instills deep interest in economic science for the benefit of society.

Economics
Micro Economics-I (Semester I)
Discipline Specific Course (DSC)

Course Code: C24ECO101T
60 Hrs. (4 Hrs./Week)
Credit : 4 (3Theory+1Tutorial)
Exam Time: 3 Hrs.

External Marks :70
Internal Marks :30
Total Marks: 100

Note: The maximum time duration for attempting the paper will be of 3 hours. The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus consisting of 2 marks each. In addition to that eight more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks.

Course Objective: To know the scope and breadth of Micro Economics along with understanding the core principles of demand and supply so as to equip the students in thinking critically about the real-world economic problems and their solutions.

UNIT-I

Economics: Definition, Nature, Scope

The Economic Problem: Scarcity and Choice, Function of an Economic System

Law of Demand, Elasticity of Demand: Concept, Types, Measurement, Determinants and Importance, Supply Curve & Elasticity of Supply.

UNIT-II

Concept of Utility, Cardinal Utility Analysis: Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility, Derivation of Demand Curve, Ordinal Utility Analysis, Indifference Curve Analysis, Consumer Equilibrium, Price, Income and Substitution effects, Consumer Surplus.

UNIT-III

Production Function & Product Curves, Law of Variable Proportions, Iso-quants & Iso-Lines, Returns to Scale, Economies & Diseconomies of Scale Internal & External

UNIT-IV

Cost Analysis: Concepts of Cost, Short Period Costs, Long Period Costs, Modern Theory of Costs, Revenue: Total. Average and Marginal Revenue, Break Even Analysis and its Uses.

Suggested Readings

1. Bernheim, B., Whinston, M. (2009). Microeconomics. Tata McGraw-Hill.
2. Mankiw, N. (2007). Economics: Principles and applications, 4th ed. Cengage Learning.
3. A. Koutsoyiannis, Microeconomics, 2nd Edition.
4. Bernheim, B., Whinston, M. (2009). Microeconomics. Tata McGraw- Hill.
5. Snyder, C., Nicholson, W. (2010). Fundamentals of microeconomics. Cengage Learning.
6. Varian, H. (2010). Intermediate microeconomics: A modern approach, 8th ed. W. W. Norton.

Course Outcome:

At the end of the course, the students would be able to:

- | | |
|-----|--------------------------------------------------------------------------|
| CO1 | Learn the how to get optimization of Resources at Micro level. |
| CO2 | Understand the concept of rationality to solve the micro level problems. |
| CO3 | Comprehend the concept of competitiveness at Micro Level |
| CO4 | Make business strategies given economic scenario |

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	S	S
CO2	S	S	M	M
CO3	S	M	M	S
CO4	S	S	M	M

S= Strong M=Medium W=Weak

Economics
Macro Economics-I (Semester I)
Discipline Specific Course (DSC)

Course Code: C24ECO102T
60 Hrs. (4 Hrs./Week)
Credit : 4 (3Theory+1Tutorial)
Exam Time: 3 Hrs.

External Marks :70
Internal Marks :30
Total Marks: 100

Note: The maximum time duration for attempting the paper will be of 3 hours. The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus consisting of 2 marks each. In addition to that eight more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks.

Course Objective: To make students familiar with basic concepts of macroeconomics; Income and output determination models, consumption and investment functions.

UNIT-I

Introduction: Nature and Scope of Macro Economics, Difference between Micro and Macro Importance of Macro Economics

National Income: Concepts, Measurement and Limitations of National Income Statistics, Circular Flow of income in two, three and four sector economy.

UNIT-II

Determination of National Income and Employment: Classical Theory of Employment, Say's Law of Market and its implications, Keynesian objection to classical theory, Keynesian theory of Employment

UNIT-III

Consumption: Consumption Function, Technical attributes of consumption, Keynesian Psychological Law of Consumption and its implications, empirical evidence.

Income-Consumption Relationship: Absolute and Relative Income Hypothesis, Permanent income hypothesis and Life Cycle Income Hypothesis.

UNIT-IV

Investment Function: Types of Investment, Determination of level of investment, MEC

Theories of Investment: Classical and Keynesian Theory of Investment, MEI Approach of Investment, Saving and Investment Equality.

Suggested Readings:

1. Lipsey R.G. and K.A. Chrystal (1999) "Principles of Economics", 9th Ed., Oxford University Press.
2. Ackley, G (1978), "Macroeconomics: Theory and Policy", Macmillan, New York.
3. Branson, W. A. (1989), "Macroeconomic Theory and Policy", 3rd Ed., Harper & Row, New York.
4. Shapiro, E (1996), "Macroeconomic Analysis" Galgotia Publication, New Delhi.
5. Stiglitz J. E. and Carl E. Walsh (2002) Principles of Macroeconomics, W.W. Norton & Company, New York.

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Understand the basic concepts of Macro Economics.
- CO2 Understand the reasons of Macro Economic disequilibrium and economic crisis
- CO3 Comprehend the economic problems at macro level

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	S	W	S
CO2	S	M	M	M
CO3	S	S	M	M

S= Strong M=Medium W=Weak

Economics
Ancient Indian Economic History: Vedic Period to 1 BC (Semester I)
Minor Course (MIC)

Course Code: C24MIC106T
30 Hrs. (2 Hrs./Week)
Credit : 2
Exam Time: 2 Hrs.

External Marks : 35
Internal Marks : 15
Total Marks: 50

Note: The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to this, four more questions will be set consisting of two questions from each unit. The student/candidate is required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Course Objective: To enable the students in understanding the historical nature of economic activities in India.

Unit 1

Economic Life in the Vedic Period (1500 BCE - 500 BCE)

Economic Life in the Vedic Period (1500 BCE - 500 BCE)

- Agricultural economy and land ownership
- Cattle rearing and its significance
- Trade and commerce
- Social classes and occupations
- Early forms of currency and barter system

Unit 2

Economic Developments from 500 BCE to 1 BC

- Rise of cities and urban economy
- Emergence of coins and monetized economy
- Trade and commerce with foreign countries
- Development of crafts and industries
- Economic policies of Mauryan and post-Mauryan dynasties

Suggested Readings:

1. The Vedic Age by R.S. Sharma
2. Ancient India: A History by R.S. Sharma
3. The Economic History of India by T.C.A. Raghavan
4. The Mauryan Economy by R.K. Mookerjee
5. Ancient Indian Economy by S.K. Maity
6. A History of Ancient India by H.C. Raychaudhuri

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Clearly understand Evolution of Economic activities in India.
- CO2 Develop critical thinking about economic life in early periods.
- CO3 Understand the structural changes of Indian Economy in early periods
- CO4 Comprehend the economic problems of early periods

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	W	S
CO2	S	M	W	M
CO3	S	S	M	M
CO4	S	S	W	M

S= Strong M=Medium W=Weak

Economics
Statistics for Economics-I (Semester I)
Minor Course (MIC)

Course Code: C24MIN106T
60 Hrs. (4 Hrs./Week)
Credit : 4 (3Theory+1Tutorial)
Exam Time: 3 Hrs.

External Marks :70
Internal Marks :30
Total Marks: 100

Note: The maximum time duration for attempting the paper will be of 3 hours. The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus consisting of 2 marks each. In addition to that eight more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks.

Course Objective: To make students familiar with basic concepts/tools of descriptive statistics which can help them to summarize and analyze the economic data.

Unit-1

Meaning, Classification and Tabulation of Data

Primary data and secondary data: definition, sources and method of collection - quantitative data: time series data, cross section data and pooled data - qualitative data - presentation of data - Simple table, complex table (manifold table) - discrete frequency distribution - continuous or grouped frequency distribution - relative frequency distribution -cumulative frequency distribution: less than and more than - presentation of data (diagram): line diagram, bar diagram (simple and multiple), pie diagram - presentation of data (graph): graph of time series or line graph, logarithmic graph, graph of frequency distribution (histogram, frequency polygon, frequency curve, cumulative frequency curve/ogive).

Unit-II

Measures of Central Tendency and Partition Values

Meaning of average - types of average: arithmetic mean, median, mode, geometric mean, harmonic mean- quartiles (individual series, discrete series and continuous series - deciles (for individual series, discrete series and continuous series) - percentiles (individual series, discrete series and continuous series).

Unit-III

Measures of Dispersion

Meaning of dispersion - types of dispersion: range, quartile deviation, mean deviation, standard deviation and variance (along with absolute measure, the relative measure or coefficient of each type of dispersion) - coefficient of variation - combined standard deviation - Lorenz curve (application in income distribution).

Unit-IV

Skewness and Kurtosis

Skewness - meaning of skewness and symmetry in a distribution - symmetrical distribution -
- negatively skewed and positively skewed, measures of skewness: absolute measure - Karl Pearson's coefficient of skewness - Bowley's coefficient of skewness - definition, types and measures of kurtosis - Karl Pearson's coefficient of kurtosis.

Suggested Readings:

1. A.L. Nagar and R.K. Das (2006), Basic Statistics, Second Edition Oxford University Press, New Delhi.
2. S.P. Gupta (2000), Statistical Methods, Sultan Chand and Sons, New Delhi.

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Understand the basic concepts of Statistics
- CO2 Understand how statistical tools can help them to summarize economic data.
- CO3 Analyze data to make decisions of various fields

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	M	M
CO2	S	M	S	M
CO3	S	M	M	S

S= Strong M=Medium W=Weak

Economics
Understanding Union Budget (Semester I)
Multi-Disciplinary Course (MDC)

Course Code: C24MDC109T
60 Hrs. (4 Hrs./Week)
Credit : 3 (2Theory+1Tutorial)
Exam Time: 2.5 Hrs.

External Marks :50
Internal Marks : 25
Total Marks: 75

Note: The maximum time duration for attempting the paper will be of 2.5 hours. The examiner is required to set seven questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 2 marks each. In addition to that six more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Course Objective: The objective is to understand the nuances of union budget of India and its different components.

Unit -I

Introduction of Process, Procedure of Enactment and Components of Government of India Budget: Revenue receipts- Tax Revenue and Non-Tax Revenue, Capital Receipts, Revenue Expenditure and Capital Expenditure.

Unit -II

Budget Deficit: Revenue Deficit, Fiscal Deficit, Primary Deficit etc. Public Debt and Liabilities.

Unit -III

Finance Commission of India: Formation, Role and Recommendations.
 Major Recommendation of Latest Finance Commission, Key Takeaways of Recent Union Budget.

Suggested Readings:

1. Buitter, W.H. (1990): Principles of Budget and Fiscal Policy, MIT Press.
2. David N. Hyman (2007): Public Finance: A Contemporary Application of Theory to Policy, Thomson Asia Pvt. Ltd., Singapore.
3. Davie, B.F. and Duncombe, B.F. (1970): Public Finance, Holt, Rineha and Winstreet, NY.
4. Hyman, David N. (1983): Public Finance: A Contemporary Application of Theory to Policy, The Dryden Press.
5. Jha, Raghendra (1987): Modern Theory of Public Finance, Wiley Eastern, Delhi.
6. Musgrave, R.A. (1959): The Theory of Public Finance, Tata McGraw Hill, ND. Additional Reading List Bhargava, P.K. (1982): Centre State Resource Transfers in India, Academic Press, Gurgaon.
7. Borkar, V.V. (1971): Income Tax Reform in India, Popular Prakashan, Bombay.
8. Chelliah, R.J. (ed.) (1997): Towards Sustainable Growth, OUP, ND.
9. Report summary, FRBM review committee, PRS India, 2017
10. Rao, M. Govinda. "Central transfers to states in India: rewarding performance while ensuring equity." Final report submitted to NITI Aayog (2017)

Course Outcome:

At the end of the course, the students would be able to:

- | | |
|-----|------------------------------------------------------------------|
| CO1 | Clearly understand Indian Budget and its components |
| CO2 | Understand the Budget deficits related problems |
| CO3 | Comprehend the dynamics of Fiscal policy given economic scenario |
| CO4 | Develop critical thinking about the Fiscal Policy changes |

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	M	S
CO2	S	M	W	M
CO3	S	S	S	M
CO4	S	S	M	S

S= Strong M=Medium W=Weak

Economics
Computer Applications in Economics-I (Semester I)
Skill Enhancement Course (SEC)

Course Code: C24SEC106T
30 Hrs. (2 Hrs./Week)
Credit : 2
Exam Time: 2 Hrs.

External Marks : 35
Internal Marks : 15
Total Marks: 50

Note: The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to this, four more questions will be set consisting of two questions from each unit. The student/candidate is required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Course Objective:

To train the students about the uses of computer applications in economic discipline.

To equip the students in doing basic mathematical calculations and data visualization useful for making inferences from economic data.

UNIT 1

GETTING ACQUAINTED WITH EXCEL

About Excel, Creating and working with Workbooks, using ranges and ranged data entry, editing rows and columns, Cell formatting, moving between Worksheets, Using Excel Help.

UNIT 2

FORMULAS

Creating formulas, Basic formulas, Relative References and Absolute References, Naming Ranges, Creating Names from Headings, moving to a Named Range, Using Named Ranges in Formulas, Managing Named Ranges, Conditional Formatting and Sorting data, Finding Cells with Conditional Formatting.

Computer Applications in Economics-I Lab

Course Code: C24SEC106P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 3 Hrs.

External Marks : 15
Internal Marks : 10
Total Marks: 25

WORKBOOKS AND WORKSHEETS

Sharing Workbooks, Highlighting Changes, Reviewing Changes, Using Comments, Compare and Merge Workbooks, Auditing Worksheets, Tracing Precedent and Dependent Cells, Tracing Errors, Error Checking, Using the Watch Window, Cell Validation, Using Outlines, Applying and Removing Outlines.

Suggested Readings:

1. Succeeding in Business with Microsoft® Excel 2013: A Problem-Solving Approach by Debra gross, Frank Akaiwa and Karleen Nordquist, Cengage learning publication.
2. Excel® 2016 Formulas and Functions by Paul Mc Fedries, Mr Excel Library

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Clearly understand applications of computer in Economics
- CO2 Visualize the economic data
- CO3 Analyze the economic data
- CO4 Interpret the results drawn from economic data

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	M	S
CO2	S	M	M	M
CO3	S	W	M	M
CO4	S	M	M	M

S= Strong M=Medium W=Weak

Economics
Indian Polity and Economy (Semester I/II)
Value Added Course (VAC)

Course Code: C24VAC115T
30 Hrs. (2 Hrs./Week)
Credit: 2
Exam Time: 2 Hrs.

External Marks: 35
Internal Marks: 15
Total Marks: 50

Note: The maximum time duration for attempting the paper will be of 2 hours. The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to that four more question will be set, two questions from each unit. The students shall be required to attempt three questions in all selecting one question from each unit in consisting of 10 marks each in addition to compulsory question No. 1.

Course Objective: To familiarize the students with ancient political economy system and its functioning.

Unit I

Indian conception of well-organised Polity and flourishing Economy as expounded in the foundational texts. The notion of Bharatavarsha as a Chakravarti-Kshetra and important attributes of Chakravartin. King as the protector of Dharma. King as the strength and support of the weak.

Unit II

King as the protector of Varta. King as the protector of the times. Meaning of Varta: Krishi, Gopalana and Vanijya forming the basis of Varta and the core of economic activity in society. The importance of sharing. Grama as the centre of the polity.

Suggested Readings:

Majumdar, R.C. "The Bharata War." In the Bharata War and Puranic Genealogies, edited by D.C. Sircar. University of Calcutta, 1969.p.11.

Sircar, D.C. 'Myth of the Great Bharata War.' In The Bharata War and Puranic Genealogies, edited by D.C. Sircar. University of Calcutta, 1969.Ibid., p.23.

Chakrabarti, Dilip K. Nationalism in the Study of Ancient Indian History. New Delhi: Aryan Books International, 2021. pp.25.27

Chattopadhyaya, Braja Dulal. Studying Early India: Archaeology, Texts, and Historical Issues. Delhi: Permanent Blac, 2003.pp. 34-36.8. Majumdar, R.C. The Age of Imperial Unity. Bombay: Bharatiya Vidya Bhavan, 1960.

Economics
Micro Economics-II (Semester II)
Discipline Specific Course (DSC)

Course Code: C24ECO201T
60 Hrs. (4 Hrs./Week)
Credit : 4 (3Theory+1Tutorial)
Exam Time: 3 Hrs.

External Marks : 70
Internal Marks : 30
Total Marks: 100

Note: The maximum time duration for attempting the paper will be of 3 hours. The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus consisting of 2 marks each. In addition to that eight more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks.

Course Objective: To enable students in understanding the market forms and dynamics of price determinations for products as well as factors.

UNIT-I

Market Structures- Concepts, Perfect Competition: Characteristics and Assumptions, Price Determination Under Perfect Competition, Equilibrium of the firm in the short period and the long period.

UNIT-II

Monopoly: Characteristics, Equilibrium of the Monopoly Firm in Short period and long period Concept of Supply Curve under Monopoly, Price Discrimination

UNIT-III

Monopolistic Competition: Characteristics, Selling Costs, Product Differentiation, Short period and long period Equilibrium of the Firm Concept & Characteristic of Oligopoly.

UNIT-IV

Marginal Productivity Theory of Distribution, Ricardian Theory of Rent, Theories of Interest; Classical and Neoclassical Marginal Productivity Theory of Wages;

Suggested Readings:

1. Bernheim, B., Whinston, M. (2009). Microeconomics. Tata McGraw-Hill.
2. Mankiw, N. (2007). Economics: Principles and applications, 4th ed. Cengage Learning.
3. A.Koutsoyiannis, Microeconomics, 2nd Edition.
4. Bernheim, B., Whinston, M. (2009). Microeconomics. Tata McGraw- Hill.
5. Snyder, C., Nicholson, W. (2010). Fundamentals of microeconomics. Cengage Learning.
6. Varian, H. (2010). Intermediate microeconomics: A modern approach, 8th ed. W. W. Norton.

Course Outcome:

At the end of the course, the students would be able to:

- | | |
|-----|--------------------------------------------------------------------------|
| CO1 | Understand the structure and forms of market |
| CO2 | Derive the welfare implications of all forms of the market |
| CO3 | Develop thinking about the business strategies in different market forms |
| CO4 | Understand factor price determination in different forms of market |

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	S	S
CO2	S	M	S	M
CO3	S	M	M	S
CO4	S	M	M	M

S= Strong M=Medium W=Weak

Economics
Macro Economics-II (Semester II)
Discipline Specific Course (DSC)

Course Code: C24ECO202T
60 Hrs. (4 Hrs./Week)
Credit : 4 (3Theory+1Tutorial)
Exam Time: 3 Hrs.

External Marks :70
Internal Marks :30
Total Marks: 100

Note: The maximum time duration for attempting the paper will be of 3 hours. The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus consisting of 2 marks each. In addition to that eight more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks.

Unit-I

Keynesian multiplier: Concept, Relation between Multiplier, MPC & MPS, Comparative Static and Dynamic Process, Working of Multiplier in UDCs. Acceleration Principle and Concept of Super Multiplier.

Unit-II

Determination of General Price Level: Classical and Keynesian Theory of Money and Prices.
 Inflation: Types, Cost Push and Demand-Pull Inflation, Effects, Inflation -Unemployment Trade-off (Phillips Contribution-Introductory Version)

Unit-III

Rate of Interest: Keynesian and IS-LM Theories of Interest rate.
 Macro-Economic policies: Monetary and Fiscal Policies (Objectives, Instruments, Policy-Mix, Limitations)

Unit-IV

Trade cycles: Meaning, Types, Phases and Theories of Trade Cycles (Hicks and Samuelson)
 Growth models: Harrod-Domar model, Solow model.

Suggested Readings:

1. Lipsey R.G. and K.A. Chrystal (1999) "Principles of Economics", 9th Ed., Oxford University Press.
2. Ackley, G (1978), "Macroeconomics: Theory and Policy", Macmillan, New York.
3. Branson, W. A. (1989), "Macroeconomic Theory and Policy", 3rd Ed., Harper & Row, New York.
4. Shapiro, E (1996), "Macroeconomic Analysis" Galgotia Publication, New Delhi.
5. Stiglitz J. E. and Carl E. Walsh (2002) Principles of Macroeconomics, W.W. Norton & Company, New York.
6. Paul Samuelson and Nordhaus: (2005) "Economics" (18th Ed.) Tata Hill Publishing Company, New Dehli.
7. Mankiw N. Gregory: (2007) "Principles of Economics", Thomson, Indian Reprint.

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Understand the income generation process of the economy.
- CO2 Understand the reasons of Macroeconomic disequilibrium and economic crisis.
- CO3 Visualize and critically analyze the role of policies.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	W	M
CO2	S	M	M	M
CO3	S	M	M	M

S= Strong M=Medium W=Weak

Economics
Indian Economy from Post-Independence (Semester II)
Minor Course (MIC)

Course Code: C24MIC206T
30 Hrs. (2 Hrs./Week)
Credit : 2
Exam Time: 2 Hrs.

External Marks : 35
Internal Marks : 15
Total Marks: 50

Note: The maximum time duration for attempting the paper will be of 2 hours. The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to that four more questions will be set, two questions from each unit. The students shall be required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Course Objective: To equip the students in understanding the economic problems, policy changes critically in Indian Economy. To enable students in providing solutions for the economic problems of the Indian Economy.

Unit I

Indian Economy (1947-1991)

Overview of Indian economy after independence
 Five-Year Plans
 Industrialization and licensing policies
 Agricultural development and Green Revolution
 Economic reforms and liberalization

Unit II

Indian Economy post 1991

Economic liberalization and globalization
 New Economic Policy (NEP) and its impact
 Foreign investment and trade policies
 IT and services sector growth
 Recent economic reforms and challenges

Suggested Readings:

1. The Indian Economy: A Macro-Economic Perspective by C. Rangarajan and S. Mahapatra
2. Indian Economy Since Independence by Uma Kapila
3. India's Economic Development: A Historical Perspective by S. S. Seth
4. India's Economic Reforms: A Critical Assessment by S. T. Dev
5. The Indian Economy: A Critical Perspective by A. K. Ghose
6. India's Economic Growth: A Concise History by S. Guhan
7. The Oxford Handbook of the Indian Economy edited by S. T. Dev and S. S. Seth
8. Indian Economy: A Comprehensive Text by R. K. Sharma and S. K. Sharma

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Clearly understand the structure of the Indian Economy.
 CO2 Understand the Economic problems Indian Economy.
 CO3 Develop critical thinking about Indian Policies.
 CO4 Comprehend the economic reforms in Indian Economy.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	M	S
CO2	S	M	M	S
CO3	S	M	W	S
CO4	S	M	W	S

S= Strong M=Medium W=Weak

Economics
Statistics for Economics-II (Semester II)
Minor Course (MIC)

Course Code: C24MIN206T
60 Hrs. (4 Hrs./Week)
Credit : 4 (3Theory+1Tutorial)
Exam Time: 3 Hrs.

External Marks :70
Internal Marks :30
Total Marks: 100

Note: The maximum time duration for attempting the paper will be of 3 hours. The examiner is required to set nine questions in all. The first question will be compulsory consisting of seven short questions covering the entire syllabus consisting of 2 marks each. In addition to that eight more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit in addition to compulsory Question No. 1. All questions shall carry equal marks.

Course Objective: To make students familiar with Sampling techniques, and statistical techniques like correlation, index numbers and trend fitting to analyze the economic data.

Unit-I

Sampling

Population and sample, Principal steps in a sample survey; methods of sampling; the role of sampling theory; properties of random samples, sampling procedure of NSSO

Unit-II

Correlation

Concept of correlation - types of correlation - bivariate distribution and covariance -simple correlation - Karl Person's product moment coefficient of correlation measure - partial correlation: definition and measure - multiple correlation: definition and measure (long run production function)- Spearman's rank correlation coefficient - properties and uses of correlation.

Unit-III

Analysis of Time Series

Definition and components of a time series - mathematical models - additive model and multiplicative model of a time series - seasonal variations - measuring through -a) simple average method- and ratio to trend method - cyclical variations - measuring through residual method - trend and its measurement through a) method of moving averages and method of least squares (annual production, sales, profit. etc.) - fitting a second degree trend (population growth) - growth curves, logistic curve and Gompertz curve - interpolation and extrapolation

Unit-IV

Index Numbers

Definition of index number - types of index number - price index - quantity index -value index - simple index number - weighted index number - construction of index number - problems in construction - methods in construction - simple and weighted - Laspeyre's price index (CPI in India)-Paasche's price index - Fisher's ideal index - splicing of index number - deflating (real wages).

Suggested Readings:

1. A.L. Nagar and R.K. Das (2006), Basic Statistics, Second Edition Oxford University Press, New Delhi.
2. S.P. Gupta (2000), Statistical Methods, Sultan Chand and Sons, New Delhi.

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Understand the sampling methods and their problems.
- CO2 Comprehend the importance of relationships of economic variables
- CO3 Understand the importance Index Numbers and Trend Analysis.

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	M	M
CO2	S	M	W	M
CO3	S	M	M	M

S= Strong M=Medium W=Weak

Economics
Economics of Banking and Finance (Semester II)
Multi-Disciplinary Course (MDC)

Course Code: C24MDC109T
60 Hrs. (4 Hrs./Week)
Credit : 3 (2Theory+1Tutorial)
Exam Time: 2.5 Hrs.

External Marks :50
Internal Marks : 25
Total Marks: 75

Note: The maximum time duration for attempting the paper will be of 2.5 hours. The examiner is required to set seven questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 2 marks each. In addition to that six more questions will be set, two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Course Objective: To enable the students in understanding the structure, functioning and problems of Indian Financial system.

Unit-I

Financial system: An overview and functions, Indian financial system; Money: Functions, Classification and Significance; Money Supply: Determinants, Alternative Measures of Money Supply in India.

Unit-II

Banking: Commercial Banks- Functions and Importance, Process of Credit Creation, The Reserve Bank of India: Functions and Instruments of Credit Control, Banking Sector Reforms.

Unit-III

Importance of Financial Institutions, SIDBI, NABARD, IFCI, Banks in the Emerging New Environment of Privatization and Globalization; NBFC: Activities and Role of NBFC; Regulatory Framework of NBFC; Recent development.

Suggested Readings

1. Erol D'Souza, "Macroeconomics, Pearson Education.
2. M.Y. Khan, "Indian Financial System", Tata McGraw Hill.
3. Peter Howells and Keith Bain "Financial Markets and Institutions", Prentice Hall.
4. L.M. Bhole (1999), Financial Institutions and Markets, Tata McGraw Hill
5. N.Jadhav, (2006). Monetary Policy, Financial Stability and Central Banking in India. Macmillan
6. S. Natarajan and R. Prameswaran.(2013) Indian Banking. S. Chand Publishing

Course Outcome:

At the end of the course, the students would be able to:

- | | |
|-----|-----------------------------------------------------------------|
| CO1 | Clearly understand the evolution of Money and Monetary Economy. |
| CO2 | Understand the Structure of Indian Financial System |
| CO3 | Understand the process of financial resources mobilization |
| CO4 | Understand the role of financial institutions in Investment |

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	M	S	M
CO2	S	S	M	S
CO3	S	M	M	M
CO4	S	W	S	M

S= Strong M=Medium W=Weak

Economics
Computer Applications in Economics-II (Semester II)
Skill Enhancement Course (SEC)

Course Code: C24SEC206T
30 Hrs. (2 Hrs./Week)
Credit : 2
Exam Time: 2 Hrs.

External Marks : 35
Internal Marks : 15
Total Marks: 50

Note: The examiner is required to set five questions in all. The first question will be compulsory consisting of five short questions covering the entire syllabus consisting of 3 marks each. In addition to this, four more questions will be set consisting of two questions from each unit. The student/candidate is required to attempt three questions in all selecting one question from each unit consisting of 10 marks each in addition to compulsory Question No. 1.

Course Objective: To train the students about the uses of computer applications in economic discipline.

UNIT I

WORKING WITH DATA

Consolidating Data, using what-if analysis, The H lookup and V lookup Functions, the IF, AND, and OR Functions, Recording Macros, Running and Deleting Recorded Macros, The Personal Macro Workbook

UNIT II

CHARTS

Creating Charts, Changing the Chart Type, Changing the Data Range, Switching Column and Row Data, Choosing a Chart Layout, Formatting Chart, Inserting Objects into a Chart, Changing Chart Labels, Changing Axes Display, Applying Chart Analysis Lines

Computer Applications in Economics-II Lab

Course Code: C24SEC206P
30 Hrs. (2 Hrs./Week)
Credit : 1
Exam Time: 2 Hrs.

External Marks :15
Internal Marks :10
Total Marks: 25

PIVOT TABLES

Creating Pivot Tables and Pivot Charts, Manipulating a Pivot Table, Changing Calculated Value Fields, Sorting and Filtering Pivot Table Data

Suggested Readings:

1. Data Visualization in Excel A Guide for Beginners, Intermediates, and Wonks by Jonathan Schwabish, Published May 26, 2023 by A K Peters/CRC Press.
2. Succeeding in Business with Microsoft® Excel 2013: A Problem-Solving Approach by Debra gross, Frank Akaiwa and Karleen Nordquist, Cengage learning publication.
3. Excel® 2016 Formulas and Functions by Paul McFedries, MrExcelLibrary

Course Outcome:

At the end of the course, the students would be able to:

- CO1 Clearly understand applications of computer in Economics
- CO2 Visualize the economic data
- CO3 Analyze the economic data

Mapping of CO with PO

Outcomes	PO1	PO2	PO3	PO4
CO1	S	W	W	M
CO2	S	S	W	M
CO3	S	M	W	M

S= Strong M=Medium W=Weak