



# UNIVERSITY OF JAMMU

(NAAC ACCREDITED 'A' GRADE' UNIVERSITY)  
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Academic Section

Email: [academicsectionju14@gmail.com](mailto:academicsectionju14@gmail.com)

## NOTIFICATION

(23/May/Adp./30)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the Syllabi and Courses of Study in the subject of **Economics** of Semesters **IIIrd** and **IVth** for **Four Year Under Graduate Programme** under the **Choice Based Credit System** as per **NEP-2020 (as given in the annexure)** for the examinations to be held in the years as per the details given below:

Subject	Semester	for the examination to be held in the years
Economics	Semester-III	December 2023, 2024 and 2025
	Semester-IV	May 2024, 2025 and 2026

The Syllabi of the courses is available on the University website:  
[www.jammuuniversity.ac.in](http://www.jammuuniversity.ac.in)

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DEAN ACADEMIC AFFAIRS

No. F. Acd/II/23/3090-3103

Dated: 17-5-2023.

Copy for information and necessary action to:

1. Dean, Faculty of Social Science
2. Convener, Board of Studies in Economics
3. Sr. P.A. to the Controller of Examinations
4. All members of the Board of Studies
5. Confidential Assistant to the Controller of Examinations
6. I/C Director, Computer Centre, University of Jammu
7. Deputy Registrar/Asst. Registrar (Conf. /Exams. UG/Eval Non-Prof)
8. Incharge, University Website for Uploading of the notification.

*Sumitashamo*  
17/5/23  
Deputy Registrar (Academic)

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14/5/23

*17/5*  
17/5

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17/5/23

# University of Jammu

## (FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

### Major (Semester- III)

Course Code: **UMJECT: 301**  
Credits: **4** (3 Theory + 1 Tutorial)  
Total Marks = **100**  
Theory = **75**  
End Semester Examination = **60**  
Midsemester Test: **15**

Title: **Microeconomics - II**  
Duration of End Semester Exam.: **03 Hours**

**Tutorial =25**  
Continuous Assessment = **10**  
Final Examination = **15**

**Preamble:** In this course, we will build upon the knowledge gained in Microeconomics - I. The course emphasizes various aspects of microeconomics. In this course, students become familiar with the different concepts of costs as well as theories of production. In addition, it enables students to gain a deeper understanding of Market Structures and Factor Pricing.

#### UNIT 1: Theory of Production and Cost

Production Function: Meaning and Types; Isoquants: Meaning and Properties; Concept of Iso-Cost Line; Producer's Equilibrium; Expansion Path; Law of Variable Proportion; Returns to Scale; Economies of Scale: Internal and External; Different Cost Curves and their relationship in the Short Run and Long Run.

#### UNIT 2: Market Structure - I

Market Forms: Perfect and Imperfect; Equilibrium of the Firm under Perfect Competition in the Short Run and Long Run; Shut Down Point; Short Run and Long Run Price and Output Decision of a Monopoly Firm; Price Discrimination and its Degrees.

#### UNIT 3: Market Structure - II

Equilibrium of the Firm under Monopolistic Competition in the Short Run and Long Run; Oligopoly: Meaning and Characteristics; Price Leadership- Meaning and types; Kinked Demand Curve – Paul Sweezy's Model.

#### UNIT 4: Factor Pricing

Marginal Productivity Theory of Distribution: Classical Version; Modern Theory of Wages; Ricardian Theory of Rent; Concept of Quasi- Rent; Classical Theory of Interest; Keynesian Liquidity Preference Theory of Interest; Theories of Profit - Risk, Uncertainty, and Innovation

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# University of Jammu

(FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

## Major (Semester- III)

Course Code: **UMJECT: 301**  
Credits: **4** (3 Theory + 1 Tutorial)  
Total Marks = **100**  
Theory = **75**  
End Semester Examination = **60**  
Midsemester Test: **15**

Title: **Microeconomics - II**  
Duration of End Semester Exam.: **03 Hours**

Tutorial = **25**  
Continuous Assessment = **10**  
Final Examination = **15**

- **Note for Paper Setting:**

**Mid Semester Test (15 Marks):** The midsemester test will consist of eight questions drawn from two units. The candidates are required to attempt any five questions. Each question shall carry three (03) marks, and the word limit should be between 250 and 300 words.

**Tutorial (25 Marks):** This tutorial will be divided into two parts. The first part will be Continuous Assessment of 10 marks, while the second part will be a final examination of 15 marks. To complete the final tutorial examination, the course coordinator will assign each student a topic to write and present in the class. Students will be evaluated based on their content and presentation.

**End Semester Examination:** The question paper will be consisted of two sections.

**Section-A (12 marks)** - Four (04) short answer questions representing all units i.e. one question from each unit. Each question carries three (03) marks (**All compulsory**).

**Section-B (48 marks)** - Eight (08) long answer questions representing the whole syllabus i.e. two questions from each unit. The students are required to attempt one question from each unit (**Four to be attempted**). Each question carries Twelve (12) marks.

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# University of Jammu

## (FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

### Major (Semester- III)

Course Code: **UMJECT: 301**

Title: **Microeconomics - II**

Credits: **4 (3 Theory + 1 Tutorial)**

Duration of End Semester Exam.: **03 Hours**

**Total Marks = 100**

**Theory = 75**

**Tutorial =25**

End Semester Examination = 60

Continuous Assessment = 10

Midsemester Test: 15

Final Examination = 15

#### Suggested Readings:

1. Paul A. Samuelson: Micro Economics
2. Koutsoyiannis: Modern Micro Economics, Macmillan Education, New York.
3. Dominick Salvatore: Microeconomic Theory, McGraw Hill Education (India) Pvt. Ltd. Chennai, India.
4. C.S Barla: Advanced Micro Economics
5. N.C.Ray: An Introduction to Micro Economics
6. Hal R. Varian: Micro Economic Analysis, Viva Books, New Delhi.
7. N. Gregory Mankiw: Principles of Microeconomics, Cengage Learning India Pvt. Ltd, Delhi.
8. H.L. Ahuja: Modern Micro Economics
9. D.N.Dwivedi: Microeconomics-Theory and Applications, Vikas Publishing House Pvt. Ltd, Noida, India.
10. M.L. Seth: Micro Economics
11. T.R.Jain & A.S.Sandhu : Micro Economics
12. Amit Sachdeva : Micro Economics
13. Richard G.Lipsey : An Introduction to Positive Economics

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# University of Jammu

## (FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

### Major (Semester- III)

Course Code: **UMJECT: 302**  
Credits: **4** (3 Theory + 1 Tutorial)  
**Total Marks = 100**  
**Theory = 75**  
End Semester Examination = 60  
Midterm Assignment Test: 15

Title: **Macroeconomics - II**  
Duration of End Semester Exam.: **03 Hours**  
**Tutorial =25**  
Continuous Assessment = 10  
Final Examination = 15

**Preamble:** In this course, we will build upon the knowledge gained in Macroeconomics - I. In this course an in-depth analysis of macroeconomics is provided to students. Throughout the course, students become familiar with the concepts of goods markets and money markets, as well as business cycles. It also exposes the students to understand the concept of inflation and its relationship with unemployment.

#### UNIT 1: IS-LM Analysis

The Goods Market and Money Market: Links between them; Goods Market Equilibrium: The Derivation of the IS Curve; Money Market Equilibrium: The Derivation of the LM Curve; Simultaneous Equilibrium in Goods and Money market; Shift in IS and LM curves and the General Equilibrium.

#### UNIT 2: Business Cycle

Business cycle: meaning, characteristics & phases; Hawtrey's monetary theory of business cycles, Hayek's over-investment theory of business cycle, Schumpeter's theory of business cycles, Policy measures to control business cycles – monetary and fiscal policies.

#### UNIT 3: Inflation

Concept of inflation; Types of inflation, Causes of Demand Pull and Cost Push Inflation; Effects of Inflation; Methods to control Inflation; Concept of Deflation and Reflation

#### UNIT 4: Unemployment

Meaning of Unemployment; Types of Unemployment; Effects of Wage Cut on Employment; Various causes of Unemployment in developing economies; Philips curve in the short run and long run (relationship between inflation and unemployment).

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### Major (Semester- III)

Course Code: **UMJECT: 302**  
Credits: 4 (3 Theory + 1 Tutorial)  
**Total Marks = 100**  
**Theory = 75**  
End Semester Examination = 60  
Midterm Assignment Test: 15

Title: **Macroeconomics - II**  
Duration of End Semester Exam.: **03 Hours**

**Tutorial =25**  
Continuous Assessment = 10  
Final Examination = 15

- **Note for Paper Setting:**

**Mid Semester Test (15 Marks):** The midsemester test will consist of eight questions drawn from two units. The candidates are required to attempt any five questions. Each question shall carry three (03) marks, and the word limit should be between 250 and 300 words.

**Tutorial (25 Marks):** This tutorial will be divided into two parts. The first part will be Continuous Assessment of 10 marks, while the second part will be a final examination of 15 marks. To complete the final tutorial examination, the course coordinator will assign each student a topic to write and present in the class. Students will be evaluated based on their content and presentation.

**End Semester Examination:** The question paper will be consisted of two sections.

**Section-A (12 marks)** - Four (04) short answer questions representing all units i.e. one question from each unit. Each question carries three (03) marks (**All compulsory**).

**Section-B (48 marks)** - Eight (08) long answer questions representing the whole syllabus i.e. two questions from each unit. The students are required to attempt one question from each unit (**Four to be attempted**). Each question carries Twelve (12) marks.

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# University of Jammu

## (FYUGP)

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Choice Based Credit System at Undergraduate Level as per NEP-2020

### Minor (Semester- III)

Course Code: **UMIECT: 303**  
Credits: **4 (3 Theory + 1 Tutorial)**  
**Total Marks = 100**  
**Theory = 75**  
End Semester Examination = 60  
Midsemester Test: 15

Title: **Microeconomics - II**  
Duration of End Semester Exam.: **03 Hours**  
**Tutorial =25**  
Continuous Assessment = 10  
Final Examination = 15

**Preamble:** In this course, we will build upon the knowledge gained in Microeconomics - I. The course emphasizes various aspects of microeconomics. In this course, students become familiar with the different concepts of costs as well as theories of production. In addition, it enables students to gain a deeper understanding of Market Structures and Factor Pricing.

#### UNIT 1: Theory of Production and Cost

Production Function: Meaning and Types; Isoquants: Meaning and Properties; Concept of Iso-Cost Line; Producer's Equilibrium; Expansion Path; Law of Variable Proportion; Returns to Scale; Economies of Scale: Internal and External; Different Cost Curves and their relationship in the Short Run and Long Run.

#### UNIT 2: Market Structure - I

Market Forms: Perfect and Imperfect; Equilibrium of the Firm under Perfect Competition in the Short Run and Long Run; Shut Down Point; Short Run and Long Run Price and Output Decision of a Monopoly Firm; Price Discrimination and its Degrees.

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#### UNIT 4: Factor Pricing

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# University of Jammu

## (FYUGP)

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Choice Based Credit System at Undergraduate Level as per NEP-2020

### Minor (Semester- III)

Course Code: **UMIECT: 303**  
Credits: **4** (3 Theory + 1 Tutorial)  
**Total Marks = 100**  
**Theory = 75**  
End Semester Examination = 60  
Midsemester Test: 15

Title: **Microeconomics - II**  
Duration of End Semester Exam.: **03 Hours**  
**Tutorial =25**  
Continuous Assessment = 10  
Final Examination = 15

- **Note for Paper Setting:**

**Mid Semester Test (15 Marks):** The midsemester test will consist of eight questions drawn from two units. The candidates are required to attempt any five questions. Each question shall carry three (03) marks, and the word limit should be between 250 and 300 words.

**Tutorial (25 Marks):** This tutorial will be divided into two parts. The first part will be Continuous Assessment of 10 marks, while the second part will be a final examination of 15 marks. To complete the final tutorial examination, the course coordinator will assign each student a topic to write and present in the class. Students will be evaluated based on their content and presentation.

**End Semester Examination:** The question paper will be consisted of two sections.

**Section-A** (12 marks) - Four (04) short answer questions representing all units i.e. one question from each unit. Each question carries three (03) marks (**All compulsory**).

**Section-B** (48 marks) - Eight (08) long answer questions representing the whole syllabus i.e. two questions from each unit. The students are required to attempt one question from each unit (**Four to be attempted**). Each question carries Twelve (12) marks.

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# University of Jammu

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Choice Based Credit System at Undergraduate Level as per NEP-2020

### Minor (Semester- III)

Course Code: **UMIECT: 303**  
Credits: 4 (3 Theory + 1 Tutorial)  
**Total Marks = 100**  
**Theory = 75**  
End Semester Examination = 60  
Midsemester Test: 15

Title: **Microeconomics - II**  
Duration of End Semester Exam.: **03 Hours**

**Tutorial =25**  
Continuous Assessment = 10  
Final Examination = 15

#### Suggested Readings:

1. Paul A. Samuelson: Micro Economics
2. Koutsoyiannis: Modern Micro Economics, Macmillan Education, New York.
3. Dominick Salvatore: Microeconomic Theory, McGraw Hill Education (India) Pvt. Ltd. Chennai, India.
4. C.S Barla: Advanced Micro Economics
5. N.C.Ray: An Introduction to Micro Economics
6. Hal R. Varian: Micro Economic Analysis, Viva Books, New Delhi.
7. N. Gregory Mankiw: Principles of Microeconomics, Cengage Learning India Pvt. Ltd, Delhi.
8. H.L. Ahuja: Modern Micro Economics
9. D.N.Dwivedi: Microeconomics-Theory and Applications, Vikas Publishing House Pvt. Ltd, Noida, India.
10. M.L. Seth: Micro Economics
11. T.R.Jain & A.S.Sandhu : Micro Economics
12. Amit Sachdeva : Micro Economics
13. Richard G.Lipsey : An Introduction to Positive Economics

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# University of Jammu

## (FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

### Multi-disciplinary (Semester- III)

Course Code: UMDECT: 304

Title: **Indian Economy and Macroeconomic Policies**

Credits: 3

Duration of End Semester Exam.: 03 Hours

Total Marks = 75

Theory = 75

End Semester Examination = 60

Midsemester Test: 15

**Preamble:** This course aims to provide students with an understanding and knowledge of the basic features of the Indian economy, the size of the population, poverty line, human resource development, as well as monetary and fiscal policies. In addition to commercial and central banks, the course also discusses internal and international trade and taxes.

#### UNIT 1: Nature of Indian Economy

Basic Features of Indian Economy;

Population: Size, Growth and Stages of Demographic Transition;

Concept of Poverty Line; Incidence of Poverty in India; Human Poverty Index.

#### UNIT 2: Human Resource Development

Human Resource Development: Meaning, Indicators and Importance;

Human Development Index (HDI), Physical Quality of Life Index (PQLI),

Gender Development Index (GDI);

Health and Nutrition Programmes: NRHM & ICDS.

#### UNIT 3: Macro Economic Policies

Monetary Policy: Meaning, Objectives, Instruments and Role;

Fiscal Policy: Meaning, Objectives, Instruments and Role.

#### UNIT 4: Banking, Trade and Finance

Commercial and Central Bank: Meaning and Functions;

Internal and International Trade: Meaning and Difference;

Tax: Meaning of Tax; Types of Taxes – Direct and Indirect Taxes;

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# University of Jammu

## (FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

### Multi-disciplinary (Semester- III)

Course Code: UMDECT: 304

Credits: 3

Total Marks = 75

Theory = 75

End Semester Examination = 60

Midsemester Test: 15

Title: Indian Economy and Macroeconomic Policies

Duration of End Semester Exam.: 03 Hours

- **Note for Paper Setting:**

**Mid Semester Test (15 Marks):** The midsemester test will consist of eight questions drawn from two units. The candidates are required to attempt any five questions. Each question shall carry three (03) marks, and the word limit should be between 250 and 300 words.

**End Semester Examination:** The question paper will be consisted of two sections.

**Section-A (12 marks)** - Four (04) short answer questions representing all units i.e. one question from each unit. Each question carries three (03) marks (**All compulsory**).

**Section-B (48 marks)** - Eight (08) long answer questions representing the whole syllabus i.e. two questions from each unit. The students are required to attempt one question from each unit (**Four to be attempted**). Each question carries Twelve (12) marks.

**Suggested Readings:**

11. Misra, S.K and Puri, V.K.: Indian Economy, Himalaya Publishing House, Mumbai.
12. Datt, R. and Sundharam: Indian Economy, S. Chand & Co. Ltd., New Delhi.
13. Dhingra, I.C.: Indian Economy, Sultan Chand & sons, New Delhi.
14. Dhar, P.K.: Growing Dimensions of Indian Economy, Kalayani Publishers, New Delhi.
15. Bhole, L.M.: Financial Institutions and Markets, Tata McGraw-Hill Publishing Co., New Delhi.
16. Dwivedi, D.N: Macroeconomics- Theory and Policy, Tata McGraw Hill, New Delhi.
17. Gupta, S.B.: Monetary Economics, S. Chand and Co., New Delhi.
18. Katoch, Om Raj; International Economics, Notion Press, Chennai.
19. Mannur, H.G, International Economics. Vikas Publishing House.
20. Cherunilam, Francis; International Economics. McGraw Hill Edu.

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# University of Jammu (FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

## Skill Enhancement (Semester- III)

Course Code: UMSECT: 305

Credits: 2

Total Marks = 50

Theory = 50

End Semester Examination = 40

Midterm Assignment Test: 10

Title: Data Analysis

Duration of End Semester Exam.: 2½ Hours

**Preamble:** Through this course, students will gain a comprehensive understanding and knowledge of data sources and sampling, data collection methods, data presentation techniques and data analysis techniques. By enhancing their skills in data analysis, they will be able to conduct economic data analysis in a scientific manner.

### UNIT 1: Data Sources and Collection

Sources of Data: Census Verses Sample Surveys; Sampling: Meaning, Types; Sources of Data: Primary and Secondary; Methods of Collection of Primary Data; Questionnaire: Meaning and Types.

### UNIT 2: Data Presentation

Tabulation of Data-Meaning and general rules of tabulation; Tabular Representation; Diagrammatic Representation; Charts: Characteristics and Types.

### UNIT 3: Data Analysis Techniques

Mean, Median, Mode, Rank Correlation: Meaning, Types and their Relative Merits and Demerits and Simple Applications.

- Note for Paper Setting:

**Mid Semester Test (10 Marks):** The midsemester test will consist of six questions drawn from two units. The candidates are required to attempt any four (04) questions. Each question shall carry two and half (2½) marks.

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# University of Jammu

(FYUGP)

Syllabus of Economics for the Examinations to be held in the years Dec. 2023, 2024, 2025  
Choice Based Credit System at Undergraduate Level as per NEP-2020

## Skill Enhancement (Semester- III)

Course Code: UMSECT: 305

Credits: 2

Total Marks = 50

Theory = 50

End Semester Examination = 40

Midterm Assignment Test: 10

Title: Data Analysis

Duration of End Semester Exam.: 2½ Hours

**End Semester Examination:** The question paper will be consisted of two sections.

**Section-A** (10 marks) - Four (04) short answer questions representing all units i.e. one question from each unit. Each question carries two and half (2½) marks (**All compulsory**).

**Section-B** (30 marks) – Six (06) long answer questions having two questions from each unit. The students are required to attempt one question from each unit (**Three to be attempted**). Each question carries Ten (10) marks.

### Suggested Readings:

1. S.P. Gupta (2005), Statistical Methods, S. Chand & Sons, New Delhi.
2. S.C. Gupta: Fundamentals of Statistics, Himalaya Publishing House, New Delhi.
3. Chander Romesh (2007), Lectures on elementary mathematics for economists, New Academic Publishing Co., New Delhi.
4. G.S. Monga (1972), Mathematics and Statistics for Economists, Vikas Publishing House, New Delhi.
5. Nawaz, A; Katoch, OR & Sharma, R: Research Methodology and Its Importance, Academic Guru, Publishing House.
6. C.B Gupta and Vijay Gupta (1995), An Introduction to Statistical methods, Vikas Publishing House, New Delhi.
7. Chiang A.C & Wain Wright, Fundamentals of Mathematical Economics.
8. Schaum's Series (2005), An Introduction to Statistics Tata McGraw Hill, New Delhi.

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Prof. S. S. Jindal

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# University of Jammu

(FYUGP)

Syllabus of Economics for the Examinations to be held in the years <sup>May</sup> ~~Dec~~ 2023, 2024, 2025 and 2026  
Choice Based Credit System at Undergraduate Level as per NEP-2020

## Major (Semester- IV)

Course Code: **UMJECT: 401**

Credits: **4** (3 Theory + 1 Tutorial)

**Total Marks = 100**

**Theory = 75**

End Semester Examination = 60

Midterm Assignment Test: 15

Title: **Money and Banking**

Duration of End Semester Exam.: **03 Hours**

**Tutorial =25**

Continuous Assessment = 10

Final Examination = 15

**Preamble:** This course on Money Banking will provide the students a thorough understanding and knowledge of money, its functions and price index numbers. It will also focus on commercial and central banking system.

### UNIT 1: Money and Its Functions

Evolution of Money; Money: Meaning and Functions; Classification of Money; Money and Near Money; Qualities of Good Money; Role of money in a developing and mixed economy;

### UNIT 2: Theories of Money

Theories of Money - Gresham's Law; Keynes' Theory of Demand for Money; Fisher's Transactions Approach and Cambridge Cash Balance Approach; A comparison of Fisher's and Cambridge Versions

### UNIT 3: Commercial Banks

Types of Banks; Commercial Banks: Meaning and Functions; Role of Commercial Banks in a developing economy; Process of Credit Creation; Structure of Indian Commercial Banking; Banking Sector Reforms in India since 1991.

### UNIT 4: Central Banking

Central Bank: Meaning and Functions; Objectives of Credit Control; Qualitative and Quantitative Methods of Credit Control; Role of Central Bank in Developing Economy; Difference between Central Bank and Commercial Bank.

#### • Note for Paper Setting:

**Mid Semester Test (15 Marks):** The midsemester test will consist of eight questions drawn from two units. The candidates are required to attempt any five questions. Each question shall carry three (03) marks, and the word limit should be between 250 and 300 words.

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# University of Jammu

(FYUGP)

Syllabus of Economics for the Examinations to be held in the years <sup>May</sup> ~~Dec.~~ 2023, 2024, 2025 and 2026  
Choice Based Credit System at Undergraduate Level as per NEP-2020

## Major (Semester- IV)

Course Code: **UMJECT: 401**

Credits: 4 (3 Theory + 1 Tutorial)

**Total Marks = 100**

**Theory = 75**

End Semester Examination = 60

Midterm Assignment Test: 15

Title: **Money and Banking**

Duration of End Semester Exam.: **03 Hours**

**Tutorial =25**

Continuous Assessment = 10

Final Examination = 15

**Tutorial (25 Marks):** This tutorial will be divided into two parts. The first part will be Continuous Assessment of 10 marks, while the second part will be a final examination of 15 marks. To complete the final tutorial examination, the course coordinator will assign each student a topic to write and present in the class. Students will be evaluated based on their content and presentation.

**End Semester Examination:** The question paper will be consisted of two sections.

**Section-A (12 marks)** - Four (04) short answer questions representing all units i.e. one question from each unit. Each question carries three (03) marks (**All compulsory**).

**Section-B (48 marks)** - Eight (08) long answer questions representing the whole syllabus i.e. two questions from each unit. The students are required to attempt one question from each unit (**Four to be attempted**). Each question carries Twelve (12) marks.

### Suggested Readings:

1. Ackley, G: Macroeconomics: Theory and Policy, Macmillan Publishing Co., New York.
2. Ahuja, H.L: Macroeconomics for Business and Management, S. Chand & Co.Ltd., New Delhi.
3. Dwivedi, D.N: Macroeconomics: Theory and Policy, Tata McGraw Hill, New Delhi.
4. Gupta, S.B.: Monetary Economics, S. Chand and Co., New Delhi.
5. Mithani, D.M: Money, Banking & International Trade, Himalaya Publishing House, New Delhi
6. Paul, R.R: Money, Banking and International Trade, Kalyani Publishers, New Delhi.
7. Seth, M.L: Money, Banking and International Trade, Lakshmi Narain Agarwal Publishers, Agra.
8. Government of India, Economic Survey (Annual), New Delhi.
9. Reserve Bank of India: Report on Trends and Progress of Banking in India, Mumbai.

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Choice Based Credit System at Undergraduate Level as per NEP-2020

### Major (Semester- IV)

Course Code: **UMJECT: 402**  
Credits: **4** (3 Theory + 1 Tutorial)  
**Total Marks = 100**  
**Theory = 75**  
End Semester Examination = 60  
Midterm Assignment Test: 15

Title: **Elementary Statistics**  
Duration of End Semester Exam.: **03 Hours**

**Tutorial =25**  
Continuous Assessment = 10  
Final Examination = 15

**Preamble:** This course on Elementary Statistics will provide the students a thorough understanding and knowledge of Primary and Secondary Data, Collection of Data and Measures of Central Tendencies. It will also focus on Correlation and regression analysis.

#### UNIT 1: Collection of Data

Meaning of 'Statistics', Primary and Secondary Data-Meaning and sources, Classification of Data- types, Tabulation of Data-Meaning and general rules of tabulation.

#### UNIT 2: Measures of Central Tendency-I

Arithmetic Mean-Meaning and properties, Calculation of Arithmetic Mean using different methods, Geometric Mean (G.M), Harmonic Mean (H.M), Advantages and Disadvantages of A.M, G.M and H.M, Median- Calculation of Median, Advantages and Disadvantages.

#### UNIT 3: Measures of Central Tendency-II

Mode-Calculation of Mode, Advantages and Disadvantages, Relation between Mean, Median, Mode, Calculation of Partition Values-Quartiles, Deciles and Percentiles, Calculation of Mean Deviation and Standard Deviation.

#### UNIT 4: Correlation and Regression

Concept of 'Correlation', Karl Pearson's Coefficient of Correlation, Methods of finding out Correlation Coefficient, Rank correlation Coefficient, Coefficient of Determination, 'Regression'-Uses, Regression lines, Regression Equations-Regression Equation of Y on X and X on Y.

- Note for Paper Setting:**

**Mid Semester Test (15 Marks):** The midsemester test will consist of eight questions drawn from two units. The candidates are required to attempt any five questions. Each question shall carry three (03) marks, and the word limit should be between 250 and 300 words.

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