

**DEPARTMENT OF
ECONOMICS
GOVERNMENT COLLEGE
FOR WOMEN PARADE,
JAMMU**

AGENDA OF MEETING

Respected Sir/Madam,

This is for your kind information that syllabi for semester 3rd and 4th (DSE and SEC) Economics for the UG programme has been revised as per UGC guidelines, please find the attached old and the newly proposed syllabi for your reference. Therefore, it is requested to your goodself to go through the newly proposed syllabi and approve the same.

Your valuable suggestions regarding the same are highly appreciated.

Thanks and Regards

HOD (Convenor)

Dr. Rupinder Kour

Department of Economics

Government College For Women,

Parade Ground, Jammu.

Existing Syllabus



**Economic
Semester III
Discipline Specific Elective- I**

**Title: International Economics
Course No: UECTC 301**

**Syllabus of Department of Economics for BA Choice Based Credit System (CBCS)
Examinations**

Duration of
Examination: 3 Hours
Total Marks: 100
External Examination: 80
Internal Assessment: 20

PREAMBLE

This course intends to expose the students about International Economic problems, Theories of International trade, Gains from trade, Tariff and Quotas, Balance of Payments and International Institutions.

Unit I: International economics:

Importance of the study of International economics; Concepts of Internal and International trade; Similarities between Internal and International trade; Dissimilarities between Internal and International trade; Theories of International Trade- Adam Smith's Absolute Differences in Cost Advantage theory, Ricardo's Comparative Differences in Cost Theory, Heckscher – Ohlin's Theory (Modern Theory of Factor Endowment)

Unit II: The Gains from Trade

Meaning ; Potential and Actual gain from International trade; Factors determining Gains from trade; Trade as an engine of Economic growth; Concept of Terms of Trade; Factors affecting Terms of Trade; Determination of Terms of Trade: Doctrine of Reciprocal Demand

Unit II: Free Trade Versus Protection

Free Trade- Meaning, Merits and Demerits of Free Trade; Protection – Meaning, Merits and Demerits of Protection; Forms and Methods of Protection; Difference between Free trade and Protection; Need for Protection in LDC's.

Unit IV: Tariffs and Quotas

Tariffs- Meaning and Types; Effects of Tariff under Partial Equilibrium Analysis; Quotas- Meaning and Types; Effects of Quota under Partial Equilibrium Analysis; Concept of Optimum Tariff; Tariff versus Quota

Unit V: Balance of Payments

Balance of Trade; Balance of Payments (Concept and Components); Is Balance of Payments always in equilibrium; Disequilibrium in Balance of Payments; Measures to correct Disequilibrium in Balance of Payment

Note for Paper Setting:

The question paper will contain three sections. In the first section five (5) short answer questions representing all units i.e one from each unit having 70 to 80 words in approximately 6 minutes time and having (3) marks each (**All compulsory**). Five (5) medium answer questions representing all units i.e at least one from each unit having 250 to 300 words in approximately 12 minutes time and having 7 marks each (**All compulsory**).

Four /five (4/5) long answer questions representing whole of the syllabus with detailed explanation within 500 to 600 words in approximately 30 minutes time and having 15 marks each (**Two to be attempted.**)

Suggested Readings

Salvatore, Dominick, 'International Economics', Wiley India New Delhi.
Mannur, H.G. 'International Economics', Vikas Publishing House
C.P. Kindleberger 'International Economics', R D Irwin, Homewood
8th Ed. Bo Soderstein and Geoffrey Reed 'International Economics'
MacMillan. Francis Cherumilam - 'International Economics'
Errol D'Souza, 'Macro Economics', Pearson Education
2008. RBI bulletin, Various issues.
Jhingan M.L 'International Economics'
Paul RR 'Money Banking and International Trade'
Cherunilam F. 'International Economics' The Mc Graw Hill Companies



GOVERNMENT COLLEGE FOR WOMEN PARADE
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College with Potential for Excellence (CPE)

ECONOMICS
Skill Enhancement Course

Current Economic Issues of India

Course No: UECTSE 301

Syllabus of Department of Economics for BA Choice Based Credit System (CBCS) Examinations

Duration of Examination: 3 Hours

Total Marks: 100
External Examination: 80
Internal Assessment: 20

Preamble: The purpose of this course is to enable the student to have an understanding of the various current Indian Economic issues.

Unit I: Population

Size and growth rate of Population in India; Quality of Population; Sex composition of Population; Age composition of Population; Density of Population; Malthusian theory of Population ;Optimum theory of Population; Theory of Demographic Transition; New Population policy

Unit II: Inflation

Inflation :Meaning, Types; Causes of Inflation ; Effects of Inflation; Measures to control Inflation; Concept of Deflation, Disinflation and Reflation

Unit III: Unemployment

Unemployment: Meaning, Causes; Types of Unemployment; Various schemes to reduce Unemployment and Underemployment;

Unit IV: Parallel Economy in India

Meaning of Parallel Economy; Parallel economy and objectives of planning; Impact of Black money on the Economic and Social systems; Factors responsible for generation of Black Money; Demonetisation and Parallel Economy

Note for Paper Setting: The question paper will contain three sections. In the first section five (5) short answer questions representing all units i.e. one from each unit having 70 to 80 words in approximately 6 minutes time and having (3) marks each (**All compulsory**). Five (5) medium answer questions representing all units i.e. at least one from each unit having 250 to 300 words in approximately 12 minutes time and having 7 marks each (**All compulsory**).

Four /five (4/5) long answer questions representing whole of the syllabus with detailed explanation within 500 to 600 words in approximately 30 minutes time and having 15 marks each (**Two to be attempted.**)

References

K.P.M. Sundaram(2008), Indian Economy, S. Chand & Company Ltd, New Delhi.

Misra S.K. & Puri V.K. (2007), Indian Economy – Its Development Experience.
Himalaya Publishing House, New Delhi

Acharya Shankar (2003) , India's Economy : Some issues & answers. Academic foundation,
New Delhi Kapila Uma, (2003), Indian Economy since Independence. Academic foundation,
New Delhi.

Dhar P.K (2017) Indian Economy- Its growing dimension- Kalyani Publishers New Delhi
Kruger O Anne ed (2003). Economic Policy Reforms & Indian Economy, Oxford
University Press, New Delhi

R.B.I – Report on Currency & Finance , Government of India Economic Survey,
Ministry of Finance, New Delhi



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Economics
Semester: IV

Discipline Specific Elective- I

Title: Development Economics
Course No: UECTC- 401

Syllabus of Department of Economics for BA Choice Based Credit System (CBCS) Examinations

Duration: 3 Hours

Total Marks: 100

External Examination: 80

Internal Assessment: 20

PREAMBLE: Units incorporated in this paper would enable the students to know about theories of growth and development. Sectoral aspects of development, Investment Criteria, Allocation of resources and interrelations of International aspects of development have been incorporated.

Unit I: Development and Economic Growth:

Distinction between Economic Growth and Economic Development; Factors affecting Economic Growth; Characteristics of Underdevelopment; Perpetuation of Underdevelopment; Measurement of Development

Unit II: Sustainable development

Meaning; Objectives; Indicators of Sustainable Development; Policies for Sustainable Development; Human Development Indices-PQLI and HDI

Unit III: Theories of Economic Development:

Schumpeter's theory of economic development; Nurkse's theory of Disguised Unemployment; Myrdal's theory of Circular causation; Lewis's theory of unlimited supply of Labour; Rostow's stages of Economic Growth.

Unit IV: Domestic and International Aspects of Economic Development:

Role of agriculture in Economic Development; Industrialization and Economic Development; Capital Formation and Economic development; Population Growth and Economic Development; Role of International trade in Economic Development; Foreign Aid and Economic Development

Unit V: Choice of techniques and Development planning:

Labour intensive techniques v/s Capital intensive technique; Meaning of Economic Planning; Need for Planning in Underdeveloped countries; Pre requisites of successful planning; Centralized and Decentralized planning; Capital-Output ratio- Meaning and Importance in Planning

Note for Paper Setting:

The question paper will contain three sections. In the first section five (5) short answer questions representing all units i.e one from each unit having 70 to 80 words in approximately 6 minutes time and having (3) marks each (**All compulsory**). Five (5) medium answer questions representing all units i.e at least one from each unit having 250 to 300 words in approximately 12 minutes time and having 7 marks each (**All compulsory**).

Four /five (4/5) long answer questions representing whole of the syllabus with detailed explanation within 500 to 600 words in approximately 30 minutes time and having 15 marks each (**Two to be attempted.**)

Suggested Readings:

Aggarwal R.C. Economics of Development and Planning, Lakshmi Narain Aggarwal, Agra. Bhagwati, J and Desai, P: India-Planning for Industrialisation, OUP, London.
Hayami, Y: Development Economics, Oxford University Press, New York. Haggins, B: Economic Development, Norton, New York.
Jhingan, M.L: The Economics of Development and Planning, Vrinda Publications, Delhi. Joshi, M.V: Environmental Economics, Atlantic Publisher & Distributors, New Delhi.
Kindleberger, C.P: Economic Development, McGraw Hill, New York.
Kumar, Pushpam(ed.): Economics of Environment and Development, Ane Books, New Delhi. Lekhi, R.K: The Economics of Development and Planning, Kalyani Publishers, New Delhi.
Lekhi, R.K and Sujata Slathia: Development and Environmental Economics, Kalyani Publishers, Ludhiana.
Meier, G.M: Leading Issues in Economic Development, OUP, New Delhi. Shankar, U. (ed): Environmental Economics, OUP, New Delhi.
Thirwal, A.P: Growth and Development, Macmillan, London.



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ECONOMICS

Skill Enhancement Course II:

Data Analysis

Course No: UECTSE-401

Syllabus of Department of Economics for BA Choice Based Credit System (CBCS) Examinations

Total marks:100

Duration of Examination: 3.0 Hours

External Examination: 80

Internal Assessment: 20

Preamble: This course introduces the students to Collection and Presentation of data. It also discusses how data can be summarised and analysed. Students will also be trained to calculate and use few statistical tools.

Unit I: Sources of Data

Collection of data; Primary and Secondary data; Methods of collecting Primary data; Sources of Statistical data ; Mode of Presentation of data

Unit II: Measures of Central Tendency

Arithmetic Mean ; Median and Mode and their merits and demerits

Unit III : Measures of Dispersion

Range ; Interquartile Range , Quartile Deviation , Mean Deviation, Standard Deviation and their merits and demerits

Unit IV: Bivariate Frequency Distribution

Correlation: Meaning and Utility; Karl Pearson Correlation; Spearman's Rank Correlation; Regression Analysis

Note for Paper Setting:

The question paper will contain three sections. In the first section five (5) short answer questions representing all units i.e one from each unit having 70 to 80 words in approximately 6 minutes time and having (3) marks each (**All compulsory**). Five (5) medium answer questions representing all units i.e at least one from each unit having 250 to 300 words in approximately 12 minutes time and having 7 marks each (**All compulsory**).

Four /five (4/5) long answer questions representing whole of the syllabus with detailed explanation within 500 to 600 words in approximately 30 minutes time and having 15 marks each (**Two to be attempted.**)

Suggested Readings

S.P Gupta: **Statistical Methods**, Sultan Chand & Sons, India

S. C. Gupta : Fundamentals of Statistics, Himalaya Publishing House,
Delhi Murray R. Spiegel : Theory & Problems of Statistics, Schaum's
publishing Series.

P.H. Karmel and M. Polasek (1978), Applied Statistics for Economists, 4th edition, Pitman

PROPOSED SYLLABUS

LEARNING OUTCOME BASED CURRICULAM OF BA SEMESTER III AND IV



Learning Outcomes Based Curriculum Of B.A Semester III

ECONOMICS

Government College for Women Parade Ground Jammu.

Semester:- III

Title:- The Principles of Macroeconomics- I

Core Course(CC) Credit :6

Syllabus of Economics as a subject for B.A. Choice Based Credit System (CBCS)

Course Code: UECTC 301

Duration of Examination: 3hrs

Total Marks : 100

External Examination : 80 marks

Internal Assessment: 20 marks

Course Objective:

The aim of this course is to provide the learners with a basic understanding of the concepts of the principles of Macroeconomics. As the macroeconomics deals with the functioning of the economy as a whole, enable the students to understand how the economy's aggregate output of goods and services and employment of resources is determined and what causes these aggregates to fluctuate. This course has been designed to make the undergraduate students aware of the basic theoretical framework underlying the field of macroeconomics.

Teaching Learning Outcomes:-

Using employment and national income statistics students will be able to describe and analyse the economy in quantitative terms. Students will obtain a thorough and complete understanding of national income accounting. They will learn how the national income is determined. Students

will also be able to understand the basic concepts of consumption function and investment function.

Course Outline :

Unit: I Introduction

Macroeconomics: Meaning, Nature and scope; Importance of macroeconomics; Role of Government in Macroeconomics; Major issues and concerns of macroeconomics; Difference between microeconomics and macroeconomics.

Unit: II National Income Accounting

National Income: Meaning, Definitions and Concepts of GDP and others associated with National Income; Methods of measuring National Income; Practical and Conceptual difficulties in the measurement of National Income; Uses of National Income; Nominal GNP and Real GNP; Concept of Green GNP

Unit: III Theory of National Income Determination- Classical and Keynesian

Classical theory of output and employment; Say's law of Market; Keynesian criticism of classical theory; Keynesian theory of income and employment; Principle of Effective Demand; Importance of effective demand; Concepts of over full employment, under full employment and full employment

Unit: IV Circular flow of National Income

Circular flow: Meaning and Importance of Circular Flow of National Income; Concepts of Real Flow and Money Flow; Determination of National Income in Two sector model; Determination of National Income in Three sector model; Determination of National Income in an Open Economy- four sector model;

Unit: V Theories of Consumption and Investment Function

Consumption Function- Concepts of APC, APS, MPC and MPS; Keynesian ((theory) psychological law of consumption; Implications of Keynesian psychological law of consumption; Absolute Income Hypothesis; Relative Income Hypothesis; Investment Function- Autonomous and Induced Investment; Marginal Efficiency of Capital; Concept and factors affecting the MEC; Effects of MEC in less developed countries

Suggested Readings:

- 1 Ahuja, H.L.: Macro Economics for Business and Management, S. Chand and Co. Ltd., New Delhi.
2. Shapiro, E.: Macroeconomic analysis, Galgotia Publications, New Delhi.
3. Paul, R.R.: Money, Banking and International Trade, Kalyani Publishers, New Delhi.

4. Mithani, D. M.: Macroeconomics, Himalaya Publishing House, Mumbai.
5. Gregory Mankiw: Macroeconomics, 6th Edn. Tata McGraw Hill.
6. Gupta, S. B.: Monetary Economics, S. Chand and Co. Ltd. New Delhi.
7. Bhole, L. M.: Financial Institutions and Markets, Tata McGraw Hill, Publishing House, New Delhi.
8. Ackley, G: Macroeconomics- Theory and Policy, Macmillan Publishing Co. New York.
9. Dwivedi, D. N: Macroeconomics-Theory and Policy, Tata McGraw Hill, New Delhi.
10. Keynes, J. M: The General Theory of Employment, Interest and Money, Macmillan, London.

Learning Process

Lectures, Tutorials, Regular Class Test, Group Discussions, Power Point Presentations etc.

Assessment Methods

Internal Assessment and Final Examination as per CBCS rules

Scheme for Internal Assessment Test: The question paper would comprise of five short answer type questions of 3 marks each. Total marks for assignment test is 15.

Scheme for End Semester Examinations:

The question paper comprises of three sections A, B and C.

Section A contains 05 short answer type questions (one from each unit) carrying 3marks each. All the questions in this section are compulsory. (15 marks)

Section B contains 05 medium answer type questions (one from each unit) and each question carries 7 marks. (35 marks)

Section C contains 05 long answer type questions each carrying 15 marks one from each unit. The candidate is required to attempt any two questions. (30 marks).



Learning Outcomes Based Curriculum Of B.A Semester III

ECONOMICS

Government College for Women Parade Ground Jammu.

Semester:- III

Title: Financial Economics

Skill Enhancement Course(SEC) Credit :04 (2+2)

Syllabus of Economics as a subject for B.A. Choice Based Credit System (CBCS)

Course Code: UECTSE: 301

Duration of Examination: 3hrs

Total Marks : 100

Course Objective

This course on Financial Economics will provide the students a thorough understanding and knowledge of the financial system in the economy and its implications on supply and demand side aspects of the capital. It will equip the students with knowledge on the concepts, theory and policy aspects of financial economics. Moreover, the project work will enable the students to probe deeper into the financial markets which is very relevant from the skill enhancement point of view. This course will provide the foundation of knowledge needed for future finance courses.

Teaching Learning Outcomes:

This course introduces students to the economics of finance. It implies supply and demand aspect of the capital. The purpose of the paper is to impart the knowledge and train the learners to the tit-bits of the financial aspects of the economy and to keep pace with the changing

global financial and investment scenario.

Course Outline

Skill Theory Course

UNIT I: Basics of Financial Economics

1. Financial Economics: Meaning, nature, scope and importance;
2. Market equilibrium: Supply and Demand Side aspects of capital;
3. Financial System: Meaning and constituents of Financial System
4. Financial Transactions: Meaning and Characteristics

UNIT II: Financial Institutions

1. Financial Institutions: Meaning and Role
2. Commercial Banks: Meaning and Functions
3. Cooperative Banks: Meaning , Types and Functions
4. Regional Rural banks: Meaning and Functions

Skill Practical Course

UNIT III: Money Market

1. Money market : meaning functions and importance
2. Indian money market: meaning and structure and constituents
3. Underdeveloped nature of Indian money market
4. Measures to improve Indian money market.

Unit IV: Capital Market

1. Capital market: meaning functions and importance
2. Structure of Indian Capital Market
3. Comparison of money market and capital market.
4. SEBI- meaning and Role.

Suggested Readings

V.A. Avadhani; “Financial Economics, Theory and Practice”, Himalaya Publications.

Zvi Bodie, Robert C. Merton, David c. Cleeton, “Financial Economics” Pearson Education. V.A. Avadhani, “Financial Economics Theory and Practice”
Nishant K. Shukla; “Financial Economics Text & Cases”
Cyber Tech. Desai .Vasant, “Indian Financial System”,
Himalayan Publishing House Paul.RR, “Money and
Financial Institutions”, Kalyani Publishers

Learning Process

Tutorials, Lectures, Regular Class tests, Group Discussions, Viva of the Project, power Point Presentations etc.

General Guidelines

Each Skill Course shall comprise of theory and practical components. these shall be referred as Skill Theory Course and Skill Practical Course. Each course Skill Theory and Skill Practical shall be of two credits

Assessment Methods

Internal assessment and External assessment as per CBCS rules

Skill Theory Course

1. Total credits = 2
2. Maximum marks 50 (Internal 10, External 40)
3. The course content (to be consolidated into two units of 4 subunits each

A) Internal assessment

1. The question paper would comprise of 5 five short answer type questions of 2 two mark each. Total marks of the assignment is 10 marks
2. No marks have been earmarked for attendance however the eligibility criterion for appearing in the end semester examination will be minimum 75 percent attendance.

B) External end semester Examination

Maximum Marks =40.

Question paper shall have three (A, B and C) sections: -

Section A

This section shall comprise of 4 questions of 2 marks each.2 questions shall be set from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section B

This section shall comprise of 4 questions of 5 marks each.2 questions shall be set from each unit from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section C

This section shall comprise of 3 questions of 12 marks each.1.5 questions shall be set from the skill theory courses (Unit I and Unit II). Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Guidelines for design: -

Total credits = 2

Maximum marks 50 (Internal 25, External 25)

A) Internal assessment (25 Marks)

- I. 5 marks have been earmarked for attendance,
- II. Practical Project file, charts, PPT -20 marks

B) External end semester Examination 25 Marks.

- I. Practical Project file chart PPT -15marks
- II. Viva -voice – 10 marks



Learning Outcomes Based Curriculum Of B.A Semester IV

ECONOMICS

Government College for Women Parade Ground Jammu.

Semester:- IV

Title: - The Principles of Macroeconomics- II

Core Course (CC) Credit :6

Syllabus of Economics as a subject for B.A. Choice Based Credit System (CBCS)

Course Code: UECTC 401

Duration of Examination: 3hrs

Total Marks: 100

External Examination: 80 marks

Internal Assessment: 20 marks

Course Objective: -

The main objective of this course is to provide the students with a broad view of aggregate economy. This course aims to make the students familiar with the various concepts of macroeconomics such as business cycle, inflation, unemployment and foreign exchange rate.

Teaching Learning Outcomes:

Upon the successful completion of the course, the students will be able to analyse the various causes and effects of inflation. They will also be able to understand the relationship between the inflation and unemployment. In addition, they will get the knowledge about the theories of business cycle and foreign exchange rate.

Course Outline

Unit I: 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; Shifts in IS and LM curves and the general equilibrium

Unit II: Business Cycle

Business Cycle: Meaning and Nature, Characteristics features and phases of Business Cycle; Hawtrey's monetary theory of Business Cycle, Hayek's over-investment theory of Business Cycle, Schumpeter's theory of Business Cycle, Policy measures to control business cycles- Monetary policy and Fiscal Policy

Unit III: Inflation

Inflation: meaning and types, Causes of Demand pull and Cost push inflation; Effects of Inflation; Methods to control inflation; Difference between Inflation and Reflation and Deflation and Disinflation; Inflationary Gap

Unit IV: 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)

Unit V: Foreign Exchange Rate

Foreign Exchange Market: Meaning, types and functions; Foreign Exchange Rate: meaning and types; Factors affecting foreign exchange rate; Fixed and Flexible Exchange Rate: Arguments in favour and against; Market theory of exchange rate determination; Purchasing Power Parity theory of exchange rate;

Suggested Readings:

- 1 Paul, R.R: Money, Banking and International Trade, Kalyani Publishers, New Delhi.
- 2 Mithani, D. M: Macroeconomics, Himalaya Publishing House, Mumbai.

- 3 Ackley, G: Macroeconomics- Theory and Policy, Macmillan Publishing Co, New York.
- 4 Ahuja, H.L: Macroeconomics for Business and Management, S. Chand and Co Ltd., New Delhi.
- 5 Bhole, L. M: Financial Institutions and Markets, Tata McGraw Hill Publishing Co, New Delhi.
- 6 Dwivedi, D.N: Macroeconomics- Theory and Policy, Tata McGraw Hill, New Delhi.
- 7 Gupta, S.B: Monetary Economics, S. Chand and Co, New Delhi.
- 8 Keynes, J.M: The General Theory of Employment, Interest and Money, Macmillan, London.
- 9 Shapiro, E: Macroeconomic Analysis, Galgotia Publications, New Delhi.
- 10 Seth, M.L: Macro Economics, Lakshmi Narain Agarwal, Agra.
- 11 Jingan, M.L: Macroeconomic Theory, Konark Publishers Pvt Ltd, New Delhi.

Learning Process:

Lectures, Tutorials, Group Discussions, Regular Class Tests, Power Point Presentations etc.

Assessment Methods:

Internal Assessment and Final Examination as per CBCS rules.

Scheme for Internal Assessment Test: The question paper would comprise of 5 short answer type questions of 3 marks each. Total marks for assignment test is 15.

Scheme for End Semester Examinations:

The question paper comprises of three sections A, B and C.

SECTION A

Section A contains 05 short answer type questions (one from each unit) carrying 3 marks each. All the questions in this section are compulsory. (15 marks)

SECTION B

Section B contains 05 medium answer type questions (one from each unit) carrying 7 marks each. All the questions in this section are compulsory. (35 marks)

SECTION C

Section C contains 05 long answer type questions (one question from each unit) carrying 15 marks each. The candidate is required to attempt any two questions. (30 marks)



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Learning Outcomes Based Curriculum Of B.A Semester IV

ECONOMICS

Government College for Women Parade Ground Jammu.

B.A Semester: - IV

Title: Data Analysis

Skill Enhancement Course (SEC) Credit :04 (2+2)

Syllabus of Economics as a subject for B.A. Choice Based Credit System (CBCS)

Course Code: UECTSE: 401

Duration of Examination: 3hrs

Total Marks: 100

Course Objective:-

The objective of this course is to enable the students in terms of knowledge to demonstrate their understanding of descriptive statistics by practical application of quantitative reasoning and data visualization

Learning Outcomes:-

This course will introduce the students to various aspects of data analysis such as collection and presentation of data, summarization and analysis of data. Students will also be trained to calculate and use few statistical tools.

Course Outline

(Skill Theory Course)

UNIT I: Data Sources and Mode of Presentation

1. Primary Data: Meaning and various methods of collecting primary data.
2. Secondary Data: Sources of secondary data; precautions in the use of secondary data.
3. Diagrammatic Presentation: Meaning, Types and significance of diagrams; General rules for constructing a diagram.
4. Graphic Presentation: Meaning, Types and importance of graphs; General rules for constructing a graph

UNIT II: Data Analysis Techniques

1. Arithmetic Mean, Median and Mode: their merits and demerits
2. Range and Inter-quartile Range: Merits and demerits
3. Quartile Deviation and Mean Deviation: merits and demerits
4. Standard Deviation: merits and demerits

(Skill Practical Course)

UNIT II: Diagrammatic and Graphic Presentation (Practical Application)

1. Construction of one-dimensional diagrams
2. Construction of two-dimensional diagrams
3. Construction of a graph of one, two or more variables
4. Range Chart

UNIT IV: Practical Application of Data Analysis Techniques

1. Calculation of Arithmetic mean, Median and Mode in case of Individual series, Discrete series and Continuous series.
2. Calculation of Range and Interquartile Range in c case of Individual series, Discrete series and Continuous series.
3. Calculation of Quartile Deviation and Mean Deviation in case of Individual series,

Discrete series and Continuous series.

4. Calculation of Standard Deviation in case of Individual series, Discrete series and Continuous series.

Learning Process:-

Tutorials, Lectures, Regular Class Test, Group Discussions, Viva of the Project, Power Point Presentations etc.

Suggested Readings:--

1. S.P. Gupta: Statistical Methods, Sultan Chand and Sons , India.
2. S. C. Gupta: Fundamentals of Statistics, Himalaya Publishing House, Delhi.
3. Murray R. Spiegel: Theory and Problems of Statistics, Schaum's Publishing series.
4. P. H. Karmel and M. Polasek (1978), Applied Statistics for Economics, 4th edition, Pitman.
5. C.B. Gupta and Vijay Gupta (1995): An Introduction to Statistical Methods, Vikas Publishing House, New Delhi.

General Guidelines

Each Skill Course shall comprise of theory and practical components. these shall be referred as Skill Theory Course and Skill Practical Course. Each course Skill Theory and Skill Practical shall be of two credits

Assessment Methods

Internal assessment and External assessment as per CBCS rules

Skill Theory Course

4. Total credits = 2
5. Maximum marks 50 (Internal 10, External 40)
6. The course content (to be consolidated into two units of 4 subunits each

C) Internal assessment

3. The question paper would comprise of 5 five short answer type questions of 2 two mark each. Total marks of the assignment is 10 marks
4. No marks have been earmarked for attendance however the eligibility criterion for appearing in the end semester examination will be minimum 75 percent attendance.

D) External end semester Examination

Maximum Marks =40.

Question paper shall have three (A, B and C) sections: -

Section A

This section shall comprise of 4 questions of 2 marks each. 2 questions shall be set from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section B

This section shall comprise of 4 questions of 5 marks each. 2 questions shall be set from each unit from the skill theory courses (Unit I and Unit II). All questions shall be compulsory.

Section C

This section shall comprise of 3 questions of 12 marks each. 1.5 questions shall be set from the skill theory courses (Unit I and Unit II). Students shall be asked to attempt only one question of 12 marks from this section.

Skill Practical course

Guidelines for design: -

Total credits = 2

Maximum marks 50 (Internal 25, External 25)

B) Internal assessment (25 Marks)

III. 5 marks have been earmarked for attendance,

IV. Practical Project file, charts, PPT -20 marks

C) External end semester Examination 25 Marks.

III. Practical Project file chart PPT -15marks

IV. Viva -voice – 10 marks

