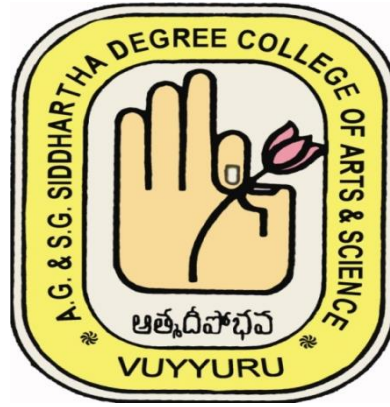


ADUSUMILLI GOPALAKRISHNAIAH & SUGAR CANE GROWERS SIDDHARTHA
DEGREE COLLEGE OF ARTS & SCIENCE, VUYYURU-521165, KRISHNA Dt.,
A.P.(AUTONOMOUS).

NAAC reaccredited at 'A' level

Autonomous –ISO 9001-2015 Certified

DEPARTMENT OF ECONOMICS



BOSMEETING HELD ON 02- 03 -2024

ACADEMIC YEAR - (2023-24)

EVEN SEMESTERS – II, IV

**AG&SG SIDDHARTHA DEGREE COLLEGE OF ARTS and
SCIENCE(AUTONOMOUS) VUYYURU**

ACEDAMIC YEAR - 2023 - 2024

**Minutes of the meeting of the Board of Studies in Economics of AG & SG
Siddhartha Degree College of Arts & Science, Vuyyuru, held at 11.00 A.M ON 2-03 – 2024 In
the Department of Economics Through online Mode.**

Sri.N.RamaRao, HOD, Economics has Presided over the BOS meeting

Members Present:

- | | | |
|---------------------------------|-----------------------|--|
| 1).....
(Sri.N.RamaRao) | Chairman | Head, Department of
Economics AG & SG S
Degree College of Arts & Science
Vuyyuru-521165 |
| 2).....
(MrsG.NirmalaJyothi) | University
Nominee | Head Department of Economics
S.A.S. Government Degree
College, NarayanaPuram |
| 3).....
(D.Aruna) | Subject Expert | Head, Department of Economics
SDMS MahilaKalasala,
Vijayawada |
| 4).....
(G.SureshBabu) | subject expert | Lecturer in Economics,
V.S.R. Government Degree
College, Movva |

AGENDA

1. To Review and recommend any changes in the syllabi , Model Question Papers and Guidelines of 2nd and 4th Semesters of I and II Year B.A Economics Papers for the Academic Year 2023 - 2024.

2. To Discuss and recommend the pattern of internal Assessment , Guidelines and Model Question Papers in 1stB.A Economics Major of B.A Honors 2nd and 4th Semesters ofII B.A Degree Economics papers for the Academic Year 2023-2024.

3. To Recommend the guidelines to be followed by the Question Paper Setters in Economics for the 2ndand 4thSemester-end exams.

4. To Recommend the teaching and evaluation methods to be followed under the Autonomous Status.

5. To Propose the panel of Question paper setters and Examiners.

6. Any other matter.

RESOLUTIONS:

- 1) It is resolved to continue the same syllabi under CBC System approved by the Academic council of 2022- 2023 for IV semester of II B.A Classes for the 2023-2024 Academic year also.

The APSHE introduced Two New Subjects with New syllabus in the II Semester of I Degree B.A from the Academic year 2023 – 2024 Under the B.A HONOURS System. The APSHE introduced Two Papers Under Economics Major System in the II semester from the Academic year 2023 - 2024. The Titles of the Subjects are 1.MICRO ECONOMICS (PAPER - I) 2. MATHEMATICAL METHODS FOR ECONOMICS (PAPER - II)

- 2) It is resolved to conform to the question paper format in accordance with the APSHE norms. Both internal and external exams Will be conducted by the Department in the form of descriptive questions, aligning with APSHE Guidelines.

A) Out of maximum 100 marks in each paper 30 marks shall be allocated for Internal Assessments regarding II Semester.

B) To implement 30 marks for internal assessment and 70 marks for External Assessment from the academic year 2022-2023 for the I and II Semesters and 2023 – 2024 Academic year also.

C) Out of these 30 marks, 20 marks are allocated for internal tests, 5 marks are allocated for assignment for II Semester. The two tests will be conducted and average of these two tests shall be deemed as the marks obtained by a student, and remaining 5 marks are allocated for attendance/Activity.

The APSHE was introduced Two New Subjects and New syllabus in the IV Semester of II Degree B.A from the Academic year 2021 – 2022. The same subjects are also continuing for the 2022-2023, and 2023 - 2024 Academic years also. The Titles of the Subjects are 1.ECONOMIC DEVELOPMENT IN INDIA AND ANDHRA PRADESH. 2.STATISTICAL METHODS FOR ECONOMICS.

3) Out of maximum 100 marks 25 Marks shall be allocated for Internal Assessments and 75 Marks for External Assessment regarding the IV Semester for the Academic year 2022 – 2023. But out of maximum 100 marks 30 marks shall be allocated for Internal Assessments and 70 marks for the External Assessment regarding the IV Semester from the Academic year 2023 – 2024.

A) To implement 25 Marks for Internal Assessments and 75 Marks for External Assessment for the Academic year 2022 – 2023 . But to implement 30 Marks for Internal Assessments and 70 Marks for External Assessment from the Academic year 2023 – 2024 .

B) Out of these 30 marks, 20 Marks are allocated for internal tests, 5 marks are Allocated for assignment and 5 Marks for activity/ attendance Regarding the IV Semester from the Academic year 2023 – 2024.

Discussed and recommended the syllabi, Model question papers under MAJOR and CBC system and guidelines to be followed by the question paper setters of II and IV semesters of B.A Classes for the Academic year 2023-2024.

4) To follow the teaching and evaluation methods, it is also resolved to use various other methods like Group discussions, Quiz, Organizing Seminars, Guest Lectures and Workshops to upgrade the knowledge of the students and impart new skills of learning as frequently as possible.

5) Resolved to authorize the chairman of Board of studies to suggest the panel of paper setters and Examiners to the controller of Examinations as for the requirement.

6) It is resolved to follow further changes if any in the syllabus by the competent Authority.

Chairman

**ADUSUMILLIGOPALAKRISHNAIAH & SUGAR CANE GROWERS SIDDHARTHA
DEGREE COLLEGE OF ARTS & SCIENCE, VUYYURU (AUTONOMOUS)**

COURSE STRUCTURE – 2023 -2024 Academic Year

Semester	Course Code	Course Title	Hours / Week	CIA	SEE	No. of Credits	Core/LSC/SDC/MDC Elective/Cluster
I Paper - I	23ECMAL121	MICRO ECONOMICS	5	30	70	4	Core
Paper - II	23ECMAL122	MATHEMATICAL METHODS FOR ECONOMICS	5	30	70	4	Core
IV Paper - I	22ECOT41B	ECONOMIC DEVELOPMENT IN INDIA AND ANDHRA PRADESH	5	30	70	4	Core
V Paper - II	22ECOT42	STATISTICAL METHODS FOR ECONOMICS	5	30	70	4	Core

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TITLE OF THE PAPER: MICRO ECONOMICS

Semester: IIPaper-III

Course Code	23ECMAL121	Course Delivery Method	Class Room / Blended Mode
Credits	4	CIA Marks	30
No. of Lecture Hours / Week	5	Semester End Exam	70
Total Number of Lecture	75	Total Marks	100
Year of Introduction: 2023 2024	Year of Offering: 2023- 24	Year of Revision: ---	Percentage of Revision: 0%
CLASS:	I.B.A		

Learning objectives:

The student will be able to understand the nature, various approaches, organs of the state, social perspectives and application of ICT.

Learning Outcomes: On successful completion of the course the student will be able to :

1. Learn about the nature and importance of social science.
2. Understand the Emergence of Culture and History
3. Know the psychological aspects of social behaviour
4. Comprehend the nature of Polity and Economy
5. Knowledge on application of computer technology

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Economics	23ECMAL121	(2023-2024)	BA
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IBA Honors (Economics)

MICROECONOMICS

Semester-II PAPER-III

CourseObjective:

This course is to learn about basic concepts, principles and theories in Micro economic to understand the economic behavior of an individual person and firm.

Course Learning Outcomes:

After studying this course, the students shall be able to achieve the following outcomes:

CO1: Explain what is an economy, economics and differentiate between micro and Macro Economics

CO2: Analyse the demand of a product and estimate elasticity

CO3: Estimate production function and understand its application

CO4: Analyze functioning of different markets and their differentiation

CO5: Examine the determination of rent, wage, interest and profit

CO-PO MATRIX							
COURSE CODE	CO-PO	PO1	PO2	PO3	PO4	PO5	PO6
23ECMAL121	CO1	0	1	0	0	0	0
	CO2	0	1	0	0	0	0
	CO3	0	1	0	0	0	0
	CO4	0	2	0	0	0	0
	CO5	0	1	0	0	0	0

Unit-1:IntroductiontoEconomics

- EconomicActivitiesandEconomicSystem;Definition,ScopeandImportanceofEconomics
- Fundamentalproblemsofeconomics:ScarcityandChoice,ProductionPossibilitiesCurve
- MeaningandScopeofMicroeconomics;DifferencesbetweenMicroandMacroEconomics
- Principles of Microeconomics: Equilibrium, Optimization, Welfare ; Methodology in Economics :Positive andNormative

Unit-2:Demand, Supply and Consumer Behaviour

- Demand:Meaning,TypesandFactors;Law ofDemand
- ElasticityofDemand:Meaning, Types of Price Elasticity,Price,IncomeandCrossElasticities measurements of electricity of demand
- Utility:Meaning,Types, law of diminishing marginal utility, law of equi marginal utility, Importance;MarginalRateofSubstitution(MRS),DMRS
- IndifferenceCurves(IC):Concept, MarginalRateofSubstitution(MRS),Properties;BudgetLine;ConsumerEquilibriumunderIC

Unit-3:Production, Cost and Revenue analysis

- Firm: Concept and Objectives; Production and Factors of Production; Concepts of Production, CostandRevenue:Total, Average,Marginal
- ProductionFunction:MeaningandTypes;Cobb-DouglasProductionFunction
- LawofVariableProportions;LawsofReturnsto Scale
- Supply:Meaning,Factors,LawofSupply,ElasticityofSupply8

Unit-4:Markets and Pricing Strategies

- Market: Concept and Classification; Perfect Competition: Characteristics, Equilibrium of Firm andIndustry
- Monopoly:Characteristics,Equilibrium,PriceDiscrimination
- MonopolisticCompetition:Characteristics,Equilibrium,SellingCosts, Excess capacity
- Oligopoly:Characteristics,Types,KinkedDemandCurveModel

Unit -5:Theories of Distribution

- Distribution:Meaning,typesandimportance
- J.B.Clerks marginal productivity theory of distribution
- Rent:RicardianTheoryofRent,MarshallianQuasiRent
- TheoriesofWage:SubsistenceTheory,ModernTheory
- TheoriesofInterest:ClassicalTheory,LoanableFundsTheory
- Theories of Profit: Risk and UncertaintyTheory,Innovations

• **Textbook,**

2. H.L.Ahuja,AdvancedEconomicTheory,S.Chand,2004
3. A.Koutsoyiannis,ModernMicroeconomics –Macmillan,London
- 4.P.N.Chopra,Principlesof Economics,KalyaniPublishers, Ludhiana,2018.
5. TeluguAcademyPublicationsonMicroeconomics
6. Microeconomics,Dr.Br.AmbedkarOpenUniversityMaterial
7. Microeconomics,IGNOUMaterialSuggested

References:1. Micro economic Analysis, Bilingual APSCHE

Activities:

Unit-1:GroupdiscussiononIdentifyingSurroundingEconomicActivities

Unit-2: Project on Demand Analysis of any Good/Services and make presentationUnit-3:Assignmentonanyproductionfunctionorconceptsof

production

Unit-4: Field visit to any market and submission of a

reportUnit-5:Seminar ondistributiontheories

Economics	23ECMAL121	(2023-2024)	BA
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Model Question Paper

MICRO ECONOMICS

I BA Honours Economics

SEMESTER – II

W.E.F. 2023-24

TIME : 3 HRS MAX.MARKS : 70M

SECTION -A

Answer the following Questions.Each question Carries4Marks. 5X4=20Marks

1

(a) Explain production possibility curve? L1CO1

OR

(b) write about Normative Economics. L1CO1

2

(a) Exception of Law of Demand? L1CO2

OR

(b) What is Budget Line? L1CO2

3

(a) What is production function? L1CO3

OR

(b) Explain the Law of supply? L1CO3

4

(a) What is classification of market's? L2CO4

OR

(b) What are features of oligopoly? L2CO4

5

(a) Explain the quasirent? L1CO5

OR

(b) Explain the invasion theory of profits? L1CO5

SECTION -B

Answer the following Questions.Each question Carries 10Marks. 5X10=50Marks

6.(a) Critical examine Robbins scarcity definition to Economics L1CO1

OR

b) Distinguish between Micro and Macro Economics. L1CO1

7.(a) Explain the various types of price elasticity of demand? L1CO2

OR

b) Explain the properties of indifference curve? L1CO2

8.(a) Explain the relationship between different short run cost curves? L1CO3

OR

(b) Explain the Law of variable proportions? L1CO3

9.(a) what is perfect competition and explain the price determination in it? L2CO4

OR

(b) Explain the equilibrium of the firm under monopolistic competition? L2CO4

10.(a) Critically explain the Ricardo's theory of Rent. L1CO5

OR

(b) Explain the Neoclassical loanable fund's theory of interest? L1CO5

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TITLE OF THE PAPER: MATHEMATICAL METHODS FOR ECONOMICS

Semester: II

Paper-IV

Course Code	23ECMAL122	Course Delivery Method	Class Room / Blended Mode - Both
Credits	4	CIA Marks	30
No. of Lecture Hours / Week	5	Semester End Exam Marks	70
Total Number of Lecture Hours	75	Total Marks	100
Year of Introduction: 2023 2024	Year of Offering: 2023- 24	Year of Revision: ---	Percentage of Revision: 0%
CLASS:	I.B.A		

Semester-IIPAPER-IV

*IBA Honors (Economics)***Course Objective:** This course is to provide basic understanding about mathematical methods relevant to economics and skills to apply them in understanding various economic issues.

Course Learning Outcomes: After studying this course, the student shall be able to achieve the following outcomes

CO1: Explain the basics of sets, functions and their graphical representation

CO2: Learn the rules of differentiation and apply the same to economic problems

CO3: Learn and use maxima and minima to Optimization problems in economics

CO4: Apply rules of integration to estimate the size of consumers' and producers' surplus

CO5: Solve the economic problems through the application of the Matrix Theory

CO-PO MATRIX							
COURSE CODE: 23ECMAL122	CO-PO	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	0	1	0	0	0	0
	CO2	0	2	0	0	0	0
	CO3	0	1	0	0	0	0
	CO4	0	2	0	0	0	0
	CO5	0	1	0	0	0	0

Unit1:Sets& Functions

- Role of Mathematical Methods in Economics
- Sets:Types,Operations
- Functions:Meaning,Types, GraphicalRepresentation,ApplicationsinEconomics.

Unit2:DifferentialCalculus

- LimitsofFunctions;ContinuityandDifferentiabilityofaFunction
- Derivative ofaFunction;Rules ofDifferentiation
- FirstandSecondDerivatives andtheirInterpretations;PartialDerivatives
- ApplicationsofDerivativesinEconomics

Unit3:OptimizationProblemsandtheirApplications

- ConceptofOptimizationinmathematics;ProblemsofMaximaandMinima
- Unconstrained&ConstrainedOptimization
- TheMethodofLagrangeMultipliers
- SomeApplicationsofOptimizationinEconomics

Unit4:IntegrationsandLinearProgramming

- Conceptofintegration;SimpleRulesofIntegration
- ApplicationofIntegrationsinEconomics
- LinearProgramming:BasicConcept,FormulationofProblem;Feasible,BasicandOptimalSolutions
- ApplicationsofLinerProgrammingin Economics

.Unit5:MatricesandDeterminantsandApplicationsinEconomics

- Matrix:Concept,Types;MatrixOperations: Addition, Multiplication10
- Determinants,Inverseofa Matrix
- SolutiontotheSystemofSimultaneousEquations,Cramer'sRule
- SomeApplicationsofMatrixTheoryinEconomics

References:

1. Alien,R.G.D.(1974),Mathematical AnalysisforEconomists,MacmillanPressandELBS,London.
2. Chiang,A.C.(1986),FundamentalMethodsofMathematicalEconomics,McGrawHill,NewYork.

3. Yamane, Taro (1975), *Mathematics for Economists*, Prentice Hall of India New Delhi.
4. Heijdra, B.J. and V.P. Fredericck (2001), *Foundations of Modern Macroeconomics*, Oxford University Press, New Delhi.
5. Knut Sydsaeter and Peter Hammond (2008), *Mathematics for Economic Analysis*. Pearson education.
6. Open Source Online Materials & Videos: IGNOU, e-PG Pathasala, SWAYM, Khan Academy etc. Suggested

Activities:

Unit-1: Assignments on solving sets and modeling various functions

Unit-2: Exercises on solving differential equation and their application in economics

Unit-3: Board Presentation by students in solving the optimization problems related to economics
 Unit-4: Task Based Learning (TBL) for solving and application of the linear program models with economic examples

Unit-5: Group Project on solving matrix problems, submit report and make presentation

Activities:

Unit-1: Group discussion on Identifying Surrounding Economic Activities

Unit-2: Project on Demand Analysis of any Good/Services and make presentation

Unit-3: Assignment on any production function or concepts of production

Unit-4: Field visit to any market and submission of a report

Unit-5: Seminar on distribution theories.

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SEMESTER- II

NO. OFCREDITS: 4

Model Paper

B.A.Honors ECONOMICS

Major

MATHEMATICAL METHODS FOR ECONOMICS SEMESTER - II

Time: 3 hrs

Max marks: 70

Paper Code :23ECMAL122

SECTION-A Marks: 5x4M=20M

Answer the following *questions*.

- (a) Write about the any five types of Sets. L1Co1
(or)
(b) Draw the graphical represent of $y=x$. L1Co1
- (a) Find A.C. and M.C. for the total cost function $C=x+7x^2+2x^3-9x^4$. L2CO2
(or)
(b) Explain the use of Differentiation in Economics. L2Co2
- (a) Explain the concept of Optimization. L3CO3
(or)
(b) Find the Maxima and Minima values to the given function $y=15x^3-9x^2-8x$. L3CO3
- (a) Give the $MC=5+2x-6x^2$, find the total cost function if the total fixed Cost is 100. L4CO4
(or)
(b) Application of Linear Programming in Economics. L4CO4
- (a) Define Matrix with examples. L5CO5
(or)
(b) If $A = \begin{pmatrix} 1 & 2 & -3 \\ 0 & -1 & 2 \\ 3 & 0 & 4 \end{pmatrix}$ and $B = \begin{pmatrix} -1 & 3 & 4 \\ 6 & 2 & 0 \\ 2 & 1 & 3 \end{pmatrix}$ find $A+B$. L5CO5

SECTION-B

Marks: 5x10M=50M

Answer the following *questions*

- (a) Explain the role mathematical methods in Economics L1CO1
(or)
(b) Write about the operations of sets L1Co1
- (a) Explain the rules for differentiation L2CO2
(or)
(b) Find Maxima and Minima of the function $y=2x^3-3x^2-36x+10$ L2CO2

8. (a) Maximize the profit function $Y=50x-2x^2-xy-3y^2+95y$ subject to $x+y=25$ L3CO3
 (or)
 (b) Graphical explain the condition for Maxima and Minima L3CO3
9. (a) What is Integration? Find the consumers surplus when demand function $p=25-3x-3x^2$ when x_0 is 2. L4CO4
 (or)
 (b)What is Linear Programming? Explain its basic concepts. L4CO4
10. (a) Calculate the inverse of the following matrix $\begin{bmatrix} 2 & 3 & 4 \\ 4 & 3 & 1 \end{bmatrix}$
 (or) $\begin{bmatrix} 1 & 2 & 4 \end{bmatrix}$ L5CO5
 (b) Explain the applications of Matrix Theory in Economics? L5CO5

Note: It is mandatory to set one theory question and one problem question both in A and B sections.

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TITLE OF THE PAPER: ECONOMIC DEVELOPMENT IN INDIA AND ANDHRA PRADESH

Semester: IV

Paper-IV

Course Code	ECOT41B	Course Delivery Method	Class Room / Blended Mode - Both
Credits	4	CIA Marks	30
No. of Lecture Hours / Week	5	Semester End Exam Marks	70
Total Number of Lecture Hours	75	Total Marks	100
Year of Introduction: 2023 2024	Year of Offering: 2021- 22	Year of Revision: ---	Percentage of Revision: 0%
CLASS:	II.B.A		

ECONOMICS	ECOT41B	2023-24	B.A.(E.M)
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SEMESTER- IV

Course: V

NO. OF CREDITS: 4

ECONOMIC DEVELOPMENT-INDIA AND ANDHRA PRADESH

Paper-IV

Course Code: ECOT41B

CO1 :Students are able to understand the basic features of Indian Economy

CO2 :Students are able to acquire the knowledge of National Income and Demography

CO3: Students are able to acquire the knowledge about the development of
Agriculture and Industry

CO4:Students are able to acquire the knowledge about the Indian Public
Finance

CO5 Students are able to acquire the knowledge about the Andhra Pradesh
Economy

UNIT–I Basic Features :

Basic characteristics of Indian Economy as a developing economy – Economic development since independence - Objectives and achievements of planning – Planning Commission/ NITI Ayog and their approaches to economic development - India’s Rank in Global Human Development Index .

UNIT – II National Income and Demography :

Trends in National income - Demographic trends - Poverty and Inequalities – Occupational Structure and Unemployment - Various Schemes of employment generation and eradication of poverty – Issues in Rural Development and Urban Development –Intra-state and Inter-state.Labor Migration and unorganized sector Problems of Migrant Labor

UNIT–III Agricultural, Industrial and Tertiary Sectors Developments:

Indian Agriculture – Agricultural Strategy and Agricultural Policy – Agrarian Crisis and landreforms – Agricultural credit – Minimum Support Prices -Malnutrition and Food Security -Indian Industry - Recent Industrial Policy – Make-in India – Start-up and Stand-up programmes – SEZs and Industrial Corridors - Economic Reforms and their impact - Economic initiatives by government of India during COVID - Atmanirbhar Bharat package.Role of service sector–Growth of services sector.

UNIT–IV Indian Public Finance :

Indian Tax System and Recent changes – GST and its impact on Commerce and Industry – Centre, States financial relations- Recommendations of Recent Finance Commission – Public Expenditure and PublicDebt- Fisca lPolicy and Budgetary Trends

UNIT-V Andhra Pradesh Economy:

The basic characteristics of Andhra Pradesh economy after bifurcation in 2014–role of agricultural sector in Andhra Pradesh economy Impact of bifurcation on the endowment of natural resources and state revenue – new challenges to industry and commerce - the new initiatives to develop infrastructure – Power and Transport - Information Technology and e-governance – Urbanization and smart cities – Skill development and employment –Social welfare programme.

ReferenceBooks:

1. Dhingra, I. C., Indian Economy, Sultan Chand, New Delhi, 2014.
2. Gaurav Datt and Ashwani Mahajan, Datt and Sundharam's Indian Economy, S. Chand & Co., 2016.
3. G. M. Meier, Leading Issues in Economic Development, Oxford University Press, New York, 3/e.
4. M. P. Todaro and Stephen C. Smith, Economic Development, 10/e, Indian Edition Published by Dorling Kindersley India Pvt. Ltd. 2012.
5. P. K. Dhar, Indian Economy: Its Growing Dimensions, Kalyani Publishers, Ludhiana, 2018.
6. Reserve Bank of India, Handbook of Statistics on Indian Economy (Latest).
7. S. K. Misra & V. K. Puri, Indian Economy, Himalaya Publishing House, 2015.
8. R. S. Rao, V. Hanumantha Rao & N. Venu Gopal (Ed.), Fifty Years of Andhra Pradesh (1956-2006), Centre for Documentation, Research and Communications, Hyderabad, 2007.
9. G. Omkarnath, Economics - A Primer for India - Orient Blackswan, 2012.
10. A. P. Economy - Telugu Academy, 2018.

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ECONOMICS	ECOT41B	2023-24	B.A.(E.M)
SEMESTER- IV			Course: V

1. NO. OF CREDITS: 4

ECONOMIC DEVELOPMENT-INDIA AND ANDHRA PRADESH

Course Code: ECOT41B

Time: 3 hrs

Max. Marks: 70M

SECTION -A

Answer the following Questions

5x4=20M

1. a) Write about NITI Ayog. L1CO1
(or)
b) Global Human Development Index
2. a) Write about occupational structure of Labor force L1CO2
(or)
b) What are the problems of migrant labour L2 CO2
3. a) Write about minimum support prices L3CO3
(or)
b) Make in India
4. a) Write about fiscal policy L3CO4
(or)
b) Write about Indian Tax System L1CO4
5. a) Write about IT Sector in Andhra Pradesh L3CO5
(or)
b) Explain briefly about Urbanisation and Smart Cities L3CO5

SECTION -B

Answer the following Quotations 5x10=50M

6. a) Explain the basic features of Indian Economy L1CO1

(or)

b) Explain the objectives and achievements of different five year plans in India L1CO1

7. a) Explain the various causes for poverty in India L1CO2

(or)

b) Explain the various reasons for income inequalities in India L1CO2

8 a) Explain the land reforms in India L2CO3

(or)

b) Discuss the impact of economic reforms on Indian Economy L2CO3

9. a) Explain the GST and its impact on commerce and industry L3CO4

(or)

b) Explain the recommendations of recent finance commission L3CO4

10 a) Explain the basic characteristics of Andhra Pradesh Economy L1CO5

(or)

b) Explain the Social welfare programmes of Andhra Pradesh L1CO5

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TITLE OF THE PAPER: STATISTICAL METHODS FOR ECONOMICS

Semester: IV

Paper-V

Course Code	ECOT42	Course Delivery Method	Class Room / Blended Mode - Both
Credits	4	CIA Marks	30
No. of Lecture Hours / Week	5	Semester End Exam Marks	70
Total Number of Lecture Hours	75	Total Marks	100
Year of Introduction: 2023 2024	Year of Offering: 2021- 22	Year of Revision: ---	Percentage of Revision: 0%
CLASS:	II.B.A		

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ECONOMICS	22ECOT42	2023-24	B.A.(E.M)
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SEMESTER- IV

Course: V

NO. OF CREDITS: 4

STATISTICAL METHODS FOR ECONOMICS (NEW SYLLABUS)

CO1: To able understand the definitions, terms and their meaning relating to statistical Importance and primary and secondary data.

CO2: Able to understand Histogram, Frequency Polygon and Frequency Curve
 More than cumulative and less than cumulative frequency curves (Ogive)

Different types of bar diagrams d. Pie Diagram and its uses in economic analysis

CO3: Types of averages- Arithmetic Mean, Geometric Mean, Harmonic Mean- Median- Mode -Dispersion- Range, Quartile Deviation, Mean Deviation, Standard Deviation- Coefficient of Variation. Central tendency, correlation,

CO4: Regression, time series and indices to interpret data and suggest solutions to economic Problems.

CO5: Able to understand Time Series and Index Numbers

Unit:I: Nature and Definition of Statistics (15HRS)

Introduction to Statistics – Definition, scope, importance and limitations of Statistics – Primary and Secondary data-Census and Sampling techniques and their merits and demerits

Unit:II: Diagrammatic Analysis (20HRS)

Collection of data-Schedule and questionnaire–Frequency distribution–Tabulation– diagram and graphic presentation of data – Histogram, Frequency Polygon, Cumulative Frequency Curves-Bar Diagrams and Pie Diagram

Unit: III: Measures of Central Tendency and Dispersion (20HRS)

Measures of Central Tendency and Dispersion-Types of averages-Arithmetic Mean, Geometric Mean, Harmonic Mean– Median–Mode –Dispersion- Range, Quartile Deviation, Mean Deviation, Standard Deviation-Coefficient of Variation.

Unit:IV: Correlation and Regression (15HRS)

Correlation and Regression-Meaning, Definition and uses of Correlation-Types of Correlation- Karl Pearson's Correlation coefficient- Spearman's Rank Correlation- Regression Equations-utility of regression analysis– Demand forecasting.

Unit:V- Time Series and Index Numbers (20HRS)

Time Series and Index Numbers: Definition and components of Time Series–Measurement of Time Series–Moving Average and the Least Squares Method –Index Numbers - Concepts of Price and Quantity Relatives–Laspeyres's, Paasche's and Fisher's Ideal Index Numbers – Uses and Limitations of Index Numbers

Text Books:

Telugu Academy Book, Parimanathmaka Paddathulu (For B.A.).

Reference Books

:

1. B. R. Bhat, T. Srivenkataramana and K.S. Madhava Rao (1996): *Statistics: A Beginner's Text*, Vol.I, New Age International (P) Ltd.
2. Goon A.M, Gupta M.K., Das Gupta B. (1991), *Fundamentals of Statistics*, Vol.I, World Press, Calcutta.
3. M. R. Spiegel (1989): *Schaum's Outline of Theory and Problems in Statistics*, Schaum's Outline Series.
4. F.E. Croxton, D.J. Cowden and S. Kelin S (1973), *Applied General Statistics*, Prentice Hall of India.
5. S.P. Gupta, *Statistical Methods*, S. Chand & Co, 1985
6. S. C. Guptha, *Fundamentals of Statistics*, Himalaya Publishing House, Hyderabad.
7. Digambar Patri and D. N. Patri, *Statistical Methods for Economics*, Kalyani Publishers, Ludhiana, 2017.

A.G &S.G SIDDHARTHA DEGREE COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS) VUYYURU

(AnAutonomousscolleingin the jurisdiction of KrishnaUniversity,Machilipatnam)

SEMESTER- IV Model Paper

SECTION-A

Answer the Following Questions.

5X4=20M

1. a) What are the uses of Statistics?
(or)
b) Explain the aims (or) objectives of statistics
2. Pie diagram
(or)
b) Bar Diagram
3. a) Find the A.M.

No. of variable	1	2	3	4	5	6	7	8
Frequency	2	4	6	8	12	20	8	4

(or)

- b) What is Dispersion?

4. a) Represent the following data by a histogram:

Marks	0-10	10-20	20-30	30-40	40-50
No. of Students	8	12	22	35	5

(or)

- b) Explain the different types of Averages

5. a) Rank Correlation?
(or)
b) What are the uses of Time series

SECTION-B

Answer of the Following Questions

5X10=50M

- 6.(A) From the following data Calculate A.M. by short cut method

Marks	No. of students
0-10	2
10-20	12
20-30	15

30-40	18
40-50	25
50-60	10
60-70	8
70-80	5
80-90	4
90-100	1

(OR)

(B) Find the Median:

Marks	No. of students
10-19	2
20-29	12
30-39	15
40-49	18
50-59	25
60-69	10

7.(A) What are the various methods used in Collecting Primary data?

(OR)

(B) Find median from the following data.

Classes	Frequency
100-200	3
200-300	19
300-400	17
400-500	15
500-600	18
600-700	16
700-800	12

8. (A) Compute Fisher's Ideal Index from the following data.

Commodity	1989		1990		quantity
	price	quantity	price	quantity	
A	4	40	5	50	
B	8	64	9	80	
C	10	70	10	70	
D	2	10	4	16	

(or)

(B) Calculate the coefficient of correlation from the following data.

X	F
12.5	28
17.5	42
22.5	54

27.5	108
32.5	129
37.5	61
42.5	45
47.5	33

9. (A) Find Range and its Coefficient from the following:

Incomes	No. of workers
250-400	5
400-550	18
550-700	32
700-850	16
850-1000	20
1000-1150	25
1150-1300	10

(OR)

(B) Find the mean deviation and Co efficient using by A.M. and Median

X
31
47
48
52
58
59
60
65
66
75
46

10 (A) To Find Upper Quartile from the following table :

Marks	Wages
30-32	3
32-34	8
34-36	24
36-38	31
38-40	50
40-42	61
42-44	38
44-46	21
46-48	12
48-50	2

(OR)

(B) Explain Questionnaire