Syllabus

DEPARTMENT OF ECONOMICS

About the Department

Economics department as a pioneer department was established in 1964 with eminent Prof.Dr.R.E.Benjamin, who migrated from GTN College and elevated as Professor of Economics in Madurai Kamaraj University. Subsequently Prof R.Munisamy followed by Prof.V.Shanmugasundaram adorned this department from 1973. With Stupendous efforts, they conducted various activities for the students in the banner of Planning Forum, Population study Club and Leo Club.

After their retirement we have also conducted budget panel discussion, State level statistical survey and Regional level workshop in our college.In 2015, Our College was accredited with B Grade by NAAC and in 2017 Autonomous status was conferred by University Grants Commission. Immediately after this, our Department was geared up to organize many Funding programme at National level and at State level with the sponsorship of UGC. ICSSR, NHRC, DST-EDII, TANSCHE, TNSCST etc.

PRINCIPAL

Dr. P. Balagurusamy, M.A., M.Phil., M.Ed., P.G.D.C.A., Ph.D.,

STAFF MEMBERS

- 2. Dr. P. Ravichandran, M.A., M.Com. M.B.A., M.Phil., Ph.D. Associate Professor & Head
- 2. Mr.S.Arun, M. A., MPhil., SET., Assistant Professor

SUMMARY OF HOURS AND CREDIT

PG COURSE - M.Com

FIRST SEMESTER

Part	Course Code	Course Title	Hours	Credit
I	20PCOC15	Advanced Business Statistics	6	5
		Total	6	5

SECOND SEMESTER

Part	Course Code	Course Title	Hours	Credit
I	20PCOC25	Quantitative Techniques	6	5
		Total	6	5

Programme	M.Com	Programme Code	PCO		
Course Code	20PCOC15	Number of Hours/ Cycle	6		
Semester	I	Max. Mark	100		
Part	III	Credit	5		
CORE COURSE	CORE COURSE				
Course Title	Advanced Business Statistics				
Cognitive Level	Upto K 4		•		

Statistics is the language of the uncertainties riddled modern information age. Statistics facilitates the decision making process by quantifying the element of chance or uncertainties. It's descriptive and inferential roles not only formulate the basis of the growth of almost all the disciplines of the contemporary world, but also provide an array of non-traditional employment avenues ranging from that of spotanalysis to business analysts. The thrust of the course is to prepare students to enter into a promising professional life even after graduation, as also provide to them a platform for pursuing higher studies leading to post-graduate or doctorate degree. The objective of this course is to provide in-depth knowledge of statistical tools to the students so as to enable them to make statistical analysis in business/industry, which are also highly important for further studies in management.

UNIT – I Correlation and Regression Analysis

Hours 20

Correlation Analysis: Meaning-Uses – Types– Methods: Graphical Method and Mathematical Method- Partial and MultipleCorrelations.

 $\label{lem:Regression} \textbf{Regression Analysis:} \textbf{Meaning-Significance-Difference} - \textbf{Methods} - \textbf{Regression line --Equation --Standard Error --Multiple Regression Equations}.$

UNIT – II Time Series and Forecasting

Hours 16

Analysis of Time series: Meaning-Uses- Models – Components – Methods of Measuring trends-cyclical variations – Seasonal Variations – Irregular Variations – Trend Analysis- Application of time series analysis to forecasting.

UNIT – IIIProbability and Theoretical Distributions

Hours 20

 $\begin{tabular}{lll} \textbf{Probability Analysis}: Meaning-Uses-Events Concepts-& Theorems & of Probability-& Conditional probability-Bayes Theorem. \end{tabular}$

Theoretical Distribution: Introduction - **Binomial Distribution**: Meaning-Conditions-Characteristics-Properties and Constants - Fitting of Binomial Distribution - **Poison Distribution**: Meaning-Conditions-Characteristics-Properties-Constants - Fitting of Poison Distribution. **Normal distribution**: Meaning-Characteristics-Properties-Constants - Uses - Fittings.

UNIT - IV Tests of Significance

Hours 18

Theory of Test of Hypothesis: Meaning-Hypotheses Types - Testing of Significance — Level of Significance — Type I and Type IIError — Degrees of freedom — **Test of Significance for Large Samples**: Test of specified Mean — Tests of significance for Attributes. **Student's 't'distribution**: Meaning-Conditions — Properties-Applications .

UNIT - V Chi-Square Test, F-Test and ANOVA

Hours 16

 ${\hbox{\bf Chi}}$ – ${\hbox{\bf Square}}$ ${\hbox{\bf Distribution:}}$ Meaning-Properties – Applications – Test of goodness of fit – Conditions for the Validity of Chi – Square Test - Testing the Independence of two variables - Yates's Correction

F test: Meaning-Assumptions-Uses-Properties—Applications — Equality of Population Variances. **ANOVA**—Classification—One way Model — Two Way Model.

Pedagogy

Class Room Lectures, Power point presentation, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study

Text Books

- 1. Gupta, S. P. (2020), Statistical Methods, Sultan Chand & Sons, New Delhi.
- 2. Arora, P.N, Sumeet Arora, Arora S (2010), *Comprehensive Statistical Methods*, S. Chand &Co. Ltd, New Delhi.

Reference Books

- 1. Agarwal, N.P (2017), Advanced Business Statistics and Mathematics, RBD Publishing House, New Delhi.
- 2. Croxton, Cowden & Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.
- 3. John E. Fruend's (2008), Mathematical Statistics with Applications, Pearson Education, New Delhi.
- 4. Kazmier (2006), Business Statistics, Schman Series Mc Graw Hill, New Delhi.
- 5. Levin, R.I. and Rubin, D.S. (2012), Statistics for Management, Prentice-Hall of India.
- 6. Pal and Sarkar (2008), Statistical concepts and applications, PHI Learning, New Delhi

E-Resources

- www.kopykitat.com , Business Statistics, Sharma J.K.Vikas Publishing House.
- www.Amazon.com , Statistics for Management e Book: Levin, Richard I., Rubin, David S.
- Pearson Publishers.
- www.Meripustak.com , Business Statistics , 3E by Beri, McGraw Hill.

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

CO1	Apply correlation and regression to business problems
CO2	Identify variations and inferences using time series analysis
CO3	Utilize probability distribution for decision making
CO4	Make inferences by developing appropriate Hypothesis
CO5	Make interpretations about the population by applying the tests

Mapping of Programme Specific Outcomes and Course Outcomes

Course Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO 1	3	3	2	2	1	1
CO 2	2	2	2	2	1	1
CO 3	3	3	2	3	2	1
CO 4	3	2	3	2	3	2
CO 5	2	3	3	2	2	1

^{1 –} Low, 2 – Medium & 3- High

Articulation Mapping - K Levels with Course Outcomes (COs)

			Section A		Section B	Section C
Units	COs	K – Level	MCQs		Either/or Choice	Open Choice
			No. Of Questions	K-Level	No. Of Questions	No. Of Questions
1	CO1	Up to K2	2	K1 & K2	2(KI&K1)	1(K2)
2	CO2	Up to K3	2	K1 & K2	2(K2&K2)	1(K3)
3	CO3	Up to K3	2	K1 & K2	2(K2&K2)	1(K3)
4	CO4	Up to K3	2	K1 & K2	2(K2&K2)	1(K3)
5	CO5	Up to K4	2	K1 & K2	2(K3&K3)	1(K4)
No of C	uestions to	be asked	10		10	5
No of C	uestions to	be answered	10		5	3
Marks for each Question		1		4	10	
Total N	larks for ea	ch Section	10		20	30

- K1 Remembering and recalling facts with specific answers
- K2 Basic understanding of facts and stating main ideas with general answers
- K3 Application oriented Solving problems
- K4 Examining, analyzing, presentation and make inferences with evidences

K Levels	Section A (No Choice)	Section B (Either/or)	Section C (Open Choice)	Total Marks	% of Marks without choice
K1	5	8	-	13	13
K2	5	24	10	39	39
К3	-	8	30	38	38
K4	-	-	10	10	10
Total Marks	10	40	50	100	

LESSON PLA UNIT	DESCRIPTION	HOURS	MODE
01111	1. Correlation: Meaning, Definition, Uses, Types		11000
	Methods of Studying Correlation – Graphical Method,	02	
I-	Mathematical Method	06	
Correlation	Partial and Multiple Correlation	06	Descriptive
and	2. Regression: Meaning, Uses, Difference between	02	Method/
Regression	Correlation and Regression	02	Power Point
Analysis	Methods – Graphical Method, Algebraic Method,	02	Presentation
	Standard Error of Estimate	06	
	Multiple Regression Equations	06 02	
** **		02	
II-Time	1. Time Series: Meaning, Definition, Uses	01	
Series	Models, Components	01	5
Analysis	Measurement of Secular Trend	03	Descriptive
and	Measurement of Seasonal Variations	03	Method/
Forecasting	Measurement of Cyclical Variations	03	Power Point
	Measurement of Irregular Variations	03	Presentation
	2.Forecasting: Application of Time Series Analysis in	02	
	forecasting		
	1. Probability: Meaning, Uses, Events, Types of Events	02	
	Theorems - Addition and Multiplication Theorem	01	
	Conditional Probability, Baye's Theorem,	03	
	Mathematical expectation		
***	2. Theoretical Distributions: Meaning, Difference	01	
III-	between Theoretical distribution and Observed		
Probability	frequency distribution, Uses		F
and	Types: (i) Pinamial Distribution Massing Conditions	0.1	Descriptive
Theoretical	(i) Binomial Distribution - Meaning, Conditions,	01	Method/
Distributions	Characteristics, Properties, Constants Fittings of Binomial Distribution	02	Power Point
	(ii) Poisson Distribution - Meaning, Conditions,	03	Presentation
	Characteristics, Constants	02	
	Fittings of Poisson Distribution	02 02	
	(iii) Normal Distribution - Meaning, Characteristics,	02	
	Properties Properties	01	
	Importance, Constants	01	
	Standard Normal Probability Curve	03	
	-		
	1. Theory of Test of Hypothesis: Meaning, Test of	04	
IV-Test of	Significance, Null Hypothesis, Alternate Hypothesis, Level of Significance, Test Statistic, Critical Region		
Significance	Type I and type II Errors, Degree of Freedom.	02	Descriptive
	2. Test of Significance of Large Samples: Test of	02	Method/
	Specified Mean	03	Power Point
	est of significance for Attributes.	03	Presentation
	3. Student's t-Distribution: Meaning, Conditions,	02	11050manon
	Properties, Characteristics	02	
	Applications of t distribution.	04	
	1. Chi-Square Test: Meaning, Properties, Constants,	02	
V- Chi-	Conditions, Yate's Correction, Uses	~-	
Square	X^2 as a test for Specified Variance	02	Descriptive
Test, F	X^2 as a test of Independence of Attributes	02	Method/
Test, and	X^2 as a test of Goodness of fit.	02	Power Point
ANOVA	2. F-test: Meaning, Assumptions, Uses, Properties	02	Presentation
	3. ANOVA: One way analysis,	03	
	Two way analysis	03	
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Programme	M.Com	Programme Code	PCO			
Course Code	20PCOC25	Number of Hours/ Cycle	6			
Semester	II	Max. Mark	100			
Part	III	Credit	5			
CORE COURSE	CORE COURSE					
Course Title	Quantitative	Quantitative Techniques				
Cognitive Level	tive Level Upto K 4					

Quantitative Techniques is designed as an introduction to basic statistical tools and quantitative methods for graduate students in urban planning. These will help the students to become more critical consumers of statistical analyses, and to use statistical reasoning in making decisions. As the foundation for more advanced research methodologies and statistical analyses, this introductory course emphasizes to develop the necessary skills for expressing statistical ideas in clear simple language, which is an essential skill for effective planning professionals.

Unit - I Introduction to Operation Research

16Hours

Operation Research: Origin and Development - Role in decision making- Characteristics - Phases - General approaches.

Unit – II Linear Programming Problem

20 Hours

Linear Programming Problem: Applications and limitations – Formulation of LPP - Graphical and Simplex Method.

Unit – III Transportation and Assignment Problems

18 Hours

Transportation Problems: Balanced and Unbalanced Transportation Problems-Methods for Initial Basic Feasible solution – Degenerate or non Degenerate solution- Moving towards Optimal solutions – MODI method.

Assignment problem: Meaning – Difference between Transportation and Assignment Problem – Hungarian Algorithm.

Unit – IV Replacement Decisions

18 Hours

Replacement: meaning – Reasons for Replacement – types of Replacement - Replacement Decision - Replacement Policy with or without change in money value. Replacement of items that fail completely (Individual and Group replacement).

Unit - V Game Theory and Simulation

18 Hours

Game Theory: Introduction – Types of game – Value of a game – Saddle Point – Problems of mixed strategy – Value of the game – Dominance rule.

Simulation: Introduction-Techniques- Applications-Advantages and Disadvantages – Monte Carlo Simulation – Simulation Problems-Computers in Simulation.

Pedagogy

Class Room Lectures, Power point presentation, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study

Text Book

1. Kapoor V.K. (2019), *Operational Research Techniques for Management*., Sultan Chand and Sons, New Delhi.

Reference Books

- 1. Joseph, (1990), Business Statistics and Operation Research, Learn Tec Press, New Delhi.
- 2. Gupta pk & Man Mohan (2014), Problems in Operation Research, Sultan Chand & Sons, New Delhi.
- 3. Premkumar Gupta and Hira.D.S(2017), Operations Research. S. Chand, New Delhi

E-Resources

- www.Meripustak.com, Operations Research Pundir S K, CBS Publishers and Distributors.
- www.Meritpustak.com, Operations Research an introduction, 10 th edition by Hamdy A Taha.
- www.Kobo.com, Operations Research e Book by H.A.Eiselt, Carl-Louis.

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

CO1	Recall the general applications of operations research
CO2	Solve linear programming problems using graphical and simplex method
CO3	Apply linear programming problems to transportation and assignment problems
CO4	Analyze and make Replacement decisions for optimization.
CO5	Make use of Game theory and simulation in economic forecasting

Mapping of Programme Specific Outcomes and Course Outcomes

Course Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO 1	1	1	1	1	2	2
CO 2	3	3	2	2	1	2
CO 3	3	3	2	2	2	1
CO 4	2	2	2	2	1	1
CO 5	3	3	1	2	1	1

^{1 –} Low, 2 – Medium & 3- High

Articulation Mapping - K Levels with Course Outcomes (COs)

			Section A		Section B	Section C
Units	COs	K – Level	MCQs	MCQs		Open Choice
			No.Of Questions	K-Level	No. Of Questions	No. Of Questions
1	CO1	Up to K2	2	K1 & K2	2(KI&K1)	1(K1)
2	CO2	Up to K3	2	K1 & K2	2(K2&K2)	1(K3)
3	CO3	Up to K3	2	K1 & K2	2(K2&K2)	1(K3)
4	CO4	Up to K4	2	K1 & K2	2(K3&K3)	1(K4)
5	CO5	Up to K3	2	K1 & K2	2(K2&K2)	1(K3)
No of C	Questions t	to be asked	10		10	5
No of Questions to be answered		10		5	3	
Marks for each Question		1		4	10	
Total N	larks for e	ach Section	10		20	30

- K1 Remembering and recalling facts with specific answers
- K2 Basic understanding of facts and stating main ideas with general answers
- K3 Application oriented Solving problems
- K4 Examining, analyzing, presentation and make inferences with evidences

K Levels		Section B (Either/or)	Section C (Open Choice)		% of Marks without choice
K1	5	8	10	23	23%
K2	5	24	-	29	29 %
К3	-	8	30	38	38%
K4	-	-	10	10	10%
Total Marks	10	40	50	100	

LESSON PLAN		I	T = ·
UNIT	DESCRIPTION	HOURS	MODE
	1. Operations Research:		
I- Introduction	Introduction, Origin and Development, Definition	02	
to Operation	Characteristics	02	
Research	Phases	03	Descriptive
Research	Models and Modeling of Operations Research	03	Method/
	Methodology of Operations Research	~ .	Power Point
	Applications and Scope of Operations Research	01	Presentation
	Limitations of Operations Research	02	
	Use of Computer Software in Solving Operations	01	
	Research Problem	02	
	1.Linear Programming Problem:		
	Introduction, Definitions, Basic Terms involved in	02	
	Simplex Method		
II- Linear	Computational Aspects of Simplex Method	01	
Programming	Advantages and Drawbacks of LPP	01	Descriptive
Problem	General Model of LPP	01	Method/
	Application area of LPP	01	Power Point
	Formulation of LPP	02	Presentation
	Graphical Method of Solving LPP	04	110001111111111111
	Simplex Method – Maximization (Simple and	08	
	Mixed Constrains), Minimization (Simple and		
	Mixed Constrains)		
	1.Transportation Problem:		
	Formulating Transportation Models	01	
III -	Methods for Initial Basic Feasible solution	03	
Transportation	Test for Optimality	03	
and	Variations in Transportation Problem	03	Descriptive
Assignment	2.Assignment Problem:		Method/
Problems	Introduction, Mathematical Model	01	Power Point
	Difference between Transportation and		Presentation
	Assignment	01	
	Problem		
	Hungarian Algorithm	03	
	Special Variations in the Assignment Problems	03	
	1.Replacement:		
	Meaning, Reasons for Replacement	01	
	Types of Replacement	02	Descriptive
IV-	Replacement Decision	04	Method/
Replacement	Replacement Policy with or without change in	04	Power Point
Decisions	money value		Presentation
2 CONTIN	Replacement of items that fail completely	04	1 1 Cocilianion
	(Individual and Group replacement)		
	Staff Replacement Problems	03	
	1.Game Theory:	0.1	
	Introduction, Basic Terminology	01	
	Solution Methods of Pure Strategy Games	01	
	Principle of Dominance	02	
	Solution Methods of Mixed Strategy Games	02	D
V- Game	The 2 Person, Non- Zero Sum Game	02	Descriptive
Theory and	Limitations of Game Theory	01	Method/
Simulation Simulation	2.Simulation:	0.1	Power Point
	Introduction, Definition	01	Presentation
	Methodology for Simulation	01	
	Advantages and Disadvantages	01	
	Some Typical Applications	03	
	Stochastic Simulation	02	
	Role of Computers in Simulation	01	

UG COURSES

SUMMARY OF HOURS AND CREDITS FOR UG (B.COM) COURSE FIRST SEMESTER

Part	Code	Subject Name	Hours	Credit
III(Allied)	20UCOA11	Managerial Economics	6	4
		Total	6	4

SECOND SEMESTER

Part	Code	Subject Name	Hours	Credit
III(Allied)	20UCOA21	Economic Development of India	6	4
		Total	6	4

THIRD SEMESTER

Part	Code	Subject Name	Hours	Credit
III(Allied)	20UCOA31	Business Statistics	6	4
		Total	6	4

FOURTH SEMESTER

Part	Code	Subject Name	Hours	Credit
III (Allied)	20UCOA41	Business Mathematics	6	4
		Total	6	4

SUMMARY OF HOURS AND CREDITS FOR UG (B.A. HISTORY) COURSE FIRST SEMESTER

Part	Code	Subject Name	Hours	Credit
III(Allied)	20UHIA11	General Economics I	6	4
		Total	6	4

SECOND SEMESTER

Part	Code	Subject Name	Hours	Credit
III(Allied)	20UHIA21	General Economics II	6	4
		Total	6	4

Programme	B.Com	Programme Code	UCO			
Course Code	20UCOA11	Number of Hours/ Cycle	6			
Semester	I	Max. Mark	100			
Part	III	Credit	4			
ALLIED COURSE	•					
Course Title	MANAGI	MANAGERIAL ECONOMICS				
Gognitive Level	Upto K 3					

Managerial Economics course is an integral part of the composite Bachelor of Commerce programme. The programme is designed to develop theoretical and application skills of students to enable them to be absorbed in the corporate world and pursue higher studies in management, accountancy, commerce and economics. The course in Managerial Economics is designed to equip students with an understanding of the dynamics of economic principles that guide business decision making at micro level. In order to fulfill the above requirements, the course has been designed to include application based topics along with the fundamental theories of microeconomics. Topics like Demand Forecasting, Market Structure and Price determination, Phases of Business cycle, Profit Planning and Control, Break even analysis have been included to develop decision making skills

Unit I Introduction to Managerial economics:

18 Hours

Meaning – Definition – Nature and Scope – Traditional Economics and Managerial Economics – Importance of Managerial Economics – Role and Responsibilities of a Managerial Economist – Managerial Economics; An Interdisciplinary Science – Objectives of Modern Business Firms.

Unit II Demand Analysis and Forecasting

18 Hour

Meaning of demand - Law of Diminishing Marginal Utility - Cardinal and Ordinal Concept of Utility - Law of Demand - Shift in demand curve - Elasticity of demand - Types of Elasticity of demand - Managerial uses of the concept of Elasticity of demand - Demand Forecasting - Importance - Methods of demand forecasting for established products and for new products.

Unit III Market structure and Pricing

20 Hours

Market structure; Perfect Competition – Characteristics – Price output determination - Monopoly – Kinds – Causes - Price Output Determination and price discrimination- Monopolistic competition – Price output decision in short and Long run – Equilibrium - Oligopoly – Features – Dimensions of Pricing – Objectives of Pricing Policy.

Unit IV Inflation - Business Cycle 16 Hours

Inflation – Meaning - Types of inflation -Causes and Effects of inflation – controllingMeasures – Deflation – Meaning – causes and effects – Measures - Business Cycle – Meaning – Definition – Features - Phases of Business Cycle – Causes of Business Cycle –Effects - Anti-cyclical Monetary and Fiscal Measures.

UNIT V Profit Planning and Control

18 Hours

 $Nature\ of\ Profit-Gross\ Profit\ and\ Net\ Profit-Profit\ planning-Break\ Even\ Analysis-Concepts-Methods\ of\ computing\ BEP-Managerial\ uses\ of\ BEA\ -\ Limitations.-Profit\ Forecasting\ Techniques.$

Pedagogy

Class Room Lectures, Power point presentation, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study

Text Books

- 1. Cauvery, R, Sudhanayak , U.K, Girija, M and Meenakshi R. (2000), *Managerial Economics*, S.Chand & Co., New Delhi.
- 2. Sankaran, S. (2003), Managerial Economics, Margham Publishers, Chennai.

Reference Books

- 1. Ahuja, H.L. (1998), Managerial Economics, Sultan Chand & Co, New Delhi.
- 2. Dweivedi (1988), Managerial Economics, Kalyani Publishers, New Delhi.
- 3. Jain, T.R (2002), Managerial Economics, V.K.Publishers, New Delhi.
- 4. Jhingan, M.L. (2004), Managerial Economics, Sultan Chand & Co, New Delhi.
- 5. Joel Dean (1982), Managerial Economics, Prentice Hall Publishers, New Delhi

E-Resources

- Ps;//m.snapdeal.com, Managerial Economics, Dominick Salvatore Siddhartha K Rastogi.
- Ps;//m.snapdeal.com, Managerial Economics, Eetika Piyalighosh., Purba Roi Choudhury.
- www.Flipkart.com ,Managerial Economics , Jain T.R. VK Global Publications.

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

CO1	Recall the basic principles and concepts of Managerial economics.
CO2	Describe economic theories related to consumer behavior
CO3	Relate different kinds of market structure and pricing decisions.
CO4	Explain the fluctuations in the economy with exposure on inflation and phases of Business cycle.
O5	Apply Break Even Analysis for profit planning

Mapping of Programme Specific Outcomes and Course Outcomes

Course Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11	PSO12
CO 1	1	1	1	1	1	1	2	1	1	1	2	1
CO 2	2	-	2	2	2	1	2	1	1	1	2	1
CO 3	2	1	3	2	2	1	1	2	2	1	2	1
CO 4	1	2	2	2	2	1	2	2	2	1	2	1
CO 5	3	2	2	2	2	1	1	2	2	1	2	1

1 – Low, 2 – Medium & 3- High

Articulation Mapping - K Levels with Course Outcomes (COs)

			Section A		Section B	Section C
Units	U	K – Level	MCQs		Either/or Choice	Open Choice
Units COs		K – Levei	No. Of Questions	K-Level	No. Of Questions	No. Of Questions
1	CO1	Up to K1	2	K1 & K1	2(KI&K1)	2(K1)
2	CO2	Up to K2	2	K1 & K2	2(K2&K2)	2(K2)
3	CO3	Up to K3	2	K1 & K2	2(K3&K3)	2(K3)
4	CO4	Up to K2	2	K1 & K2	2(K2&K2)	2(K2)
5	CO5	Up to K3	2	K1 & K2	2(K3&K3)	2(K3)
No of (Questions to	be asked	10		10	5
No of Questions to beanswered		10		5	3	
Marks for each Question		1		4	10	
Total N	Aarks for ea	ach Section	10		20	30

- K1 Remembering and recalling facts with specific answers
- K2 Basic understanding of facts and stating main ideas with general answers
- K3 Application oriented Solving problems
- K4 Examining, analyzing, presentation and make inferences with evidences

K Levels	Section A (No Choice)	Section B	Section C (Open Choice)	Total Marks	% of Marks without choice
K1	6	8	10	24	24%
K2	4	16	20	40	40 %
К3		16	20	36	36%
Total Marks	10	40	50	100	

UNIT	DESCRIPTION	HOURS	MODE
	a) Meaning – Definition –Nature and Scope	6	
I Introduction to	b) Traditional and Managerial economics –		
Managerial	Importance of Managerial economics.	3	Descriptive
Economics	c) Role and Responsibilities of a Managerial		Method/
	Economists.	3	Power Point
	d) Managerial Economics – an interdisciplinary		Presentation
	Science – Objectives of Modern Business		
	Firms.	6	
II	a) Meaning of demand –Law of Diminishing		
Demand	Marginal Utility – Cardinal and OrdinalConcept,	5	
	b) Law of demand –shift in demand-Elasticity of	ď	
Forecasting	demand-Types of elasticity of demand.	6	
Torccasting	c) Managerial uses of Elasticity of demand –	0	Descriptive Method
	Demand Forecasting and its importance.	3	And Assignment
	d) Methods of demand forecasting for established		
	Products and New Products.	4	
		+	
III	a) Market structure; Perfect Competition -	6	
Market	Characteristics – Price output determination.	_	Descriptive
	b) Monopoly –kinds - causes- price output	5	Method/
Pricing	determination and price discrimination.		Power Point
	c) Monopolistic competition – Price outpu		Presentation
	determination in the short and long runequilibrium	15	And Assignment
	d) Oligopoly – features – Dimensions of		r ma r issignment
	pricing – Objectives of Pricing .policy.	4	
IV	a) Inflation - Meaning - Types of Inflation		
Inflation	Causes for Inflation.	4	
Business Cycle	b) Effect of inflation and controlling measures.	3	
business Cycle	c) Deflation – Meaning – Causes and Effects –		Descriptive
	Controlling Measures.	3	Method/
	d) Business cycle – Meaning – Definition -		Power Poin
	Features - Phases of business cycle - Causes		Presentation
	of business cycle – Effects – Anti – cyclical		
	Monetary and Fiscal Measures.	6	
13.7	a) Inflation – Meaning – Types of Inflation –		
IV	Causes for Inflation.	4	
Inflation	b) Effect of inflation and controlling measures.	3	
Business Cycle	c) Deflation – Meaning – Causes and Effects –		Descriptive
	Controlling Measures.	3	Method/
	d) Business cycle – Meaning – Definition - Features		Power Poin
	- Phases of business cycle - Causes of business		Presentation
	cycle – Effects – Anti – cyclical		
	Monetary and Fiscal Measures.	6	
	a) Nature of profit – Gross profit and Net profit-	6	
V	Profit Planning – Break even analysis		Descriptive
*	b) Concepts – Methods of computing BEP	6	Method/
Drofit Dlannina	c) Managerial uses of BEA – Limitations of BEA		
Profit Planning	d) Profit Forecasting techniques	4	Power Poin
And Control	ISCHE Syllobus	2	Presentation

As per the TANSCHE Syllabus

Programme	B.Com	Programme Code	UCO			
Course Code	20UCOA21	Number of Hours/ Cycle	6			
Semester	II	Max. Mark	100			
Part	III	Credit	4			
ALLIED COURSE		•				
Course Title	ECONOMIC DEVELOPMENT OF INDIA					
Cognitive Level	Upto K3					

This course on Economic Development of India will provide the students of Commerce a thorough understanding and knowledge of basic features of Indian economy, National income, Poverty and Employment Generation Programme. Basic issues in Indian agriculture, industrial structure and services in Indian economy as well as foreign trade is well projected. This paper focus on essential aspects of techniques of planning and its recent adaptations in the light of market dominated strategy .

UNIT I Economic Development and National Income 20 Hours

Economic growth and development – Determinants of economic development – Features of Indian Economy – Barriers to economic development – National Income – Methods of measuring National Income – National Income trends – Difficulties in measuring National Income-Uses of National Income

UNIT II Population, Poverty and Unemployment

20 Hours

Features of India's Population – Causes for rapid growth of population – Population Explosion and its consequences – Remedial measures to control population – Malthusian Theory of Population – Optimum Theory of Population. Poverty; Absolute and Relative poverty – causes of poverty – poverty alleviation programme. Unemployment – causes of unemployment – Short term and long term remedies.

UNIT III Agriculture

15 Hours

Agriculture and its role in economic development –Agricultural productivity- causes for low agricultural productivity in India- Government Measures – Green Revolution – Features – Benefits of Green Revolution – Agricultural Price policy - Objectives – Instruments of price policy- defects -Food Security in India.

UNIT IV Industries 15 Hours

Importance of industrialization in India –Role of MSMEs and large scale industries-Problems of MSMEs - Remedial Measures - Industrial Policies of 1948, 1956, 1982 and 1991 New Industrial Policy – its defects - Recent changes- Role of Public sector in India – Problems of public sector undertakings – Concept of Privatization – Arguments for and against Privatization- Disinvestment

UNIT VBanking, Foreign Trade and Planning 20 Hours

Commercial Banks and its role in Economic development – Functions and role of RBI – India's Foreign trade – Direction and Composition of foreign trade -Balance of Trade – Balance of Payment – causes for disequilibrium inn Balance of Payment – Export Promotion Measures – Role of EXIM Bank - India's Five year plans – objectives – XII Five year Plan – NITI Aayok – Digital India Mission.

Pedagogy

Class Room Lectures, Power point presentation, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study

Text Books

- 1 Sankaran (2003), Indian Economic Problems, Margham Publishers, Chennai.
- 2. Dutt and Sundharam (2000), Indian economy, S Chand & Co, New Delhi.

Reference Books

- 1. Agarwal.A.N. (2004), Indian Economy, Wishwa Prakashan, New Delhi.
- 2. Ahulwalia.I.J. and I.M.D.Little (eds.) (1999), *India's Economic Reforms and Development*. (Essays in honour of Manmohan /Singh), Oxford University Press, New Delhi.
- 1. Dhingra.C (2003), The Indian Economy, Sultan & Chand, New Delhi.

E-Resources

- www.Flipkart.com ,The Indian Economy , Sanjiv Verma .Unique Publications.
- www.Flipkart.com ,The Indian Economy , Paul Krugman , RobinWell,W H Freeman & Co Limited.
- www.Flipkart.com , Indian Economy, Remesh Singh , Tata McGraw Hill Education India.

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

CO1	Associate economic development with trends and measures of national income							
CO2	Relate the effect of population, poverty and unemployment on economic development							
CO3	Explain the role of agriculture in nation's development							
CO4	Enumerate the performance of India's Industrial development and Public Sector Undertakings since independence.							
CO5	Summarize the role of service sector in economic development and estimate the performance in India's Five year Plans.							

Mapping of Programme Specific Outcomes and Course Outcomes

		- F										
Course Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11	PSO12
CO 1	2	2	2	2	1	1	2	2	2	1	2	1
CO 2	3	3	2	2	3	1	1	2	2	1	2	1
CO 3	2	2	2	2	2	1	3	2	2	1	2	1
CO 4	1	1	1	1	1	1	1	1	1	1	2	1
CO 5	2	2	2	2	2	1	2	2	2	1	2	1

^{1 –} Low, 2 – Medium & 3- High

Articulation Mapping - K Levels with Course Outcomes (COs)

			Section A	,	Section B	Section C	
Units	COs	K – Level	MCQs		Either/or Choice	Open Choice	
			No. Of Questions	K-Level	No. Of Questions	No. Of Questions	
1	CO1	Up to K2	2	K1 & K2	2(K2&K2)	1(K2)	
2	CO2	Up to K3	2	K1 & K2	2(K3&K3)	1(K2)	
3	CO3	Up to K3	2	K1 & K2	2(K3&K3)	1(K3)	
4	CO4	Up to K1	2	K1 & K1	2(K1&K1)	1(K1)	
5	CO5	Up to K2	2	K1 & K2	2(K2&K2)	1(K2)	
No of Ques	stions to	be asked	10		10	10	
No of Questions to be answered			10		5	3	
Marks for each Question			1		4	10	
Total Mark	s for eac	h Section	10		20	30	

- K1 Remembering and recalling facts with specific answers
- K2 Basic understanding of facts and stating main ideas with general answers
- K3 Application oriented Solving problems
- K4 Examining, analyzing, presentation and make inferences with evidences

A DATO C	Section A (No Choice)	Section B (Either/or)	Section C (Open Choice)	Total Marks	% of Marks without choice
K1	6	8	10	24	24%
K2	4	16	30	50	50%
K3		16	10	26	26%
K4					
Total Marks	10	40	50	100	

LESSON PLAN		1	,
UNIT	DESCRIPTION	HOURS	MODE
	a) Economic growth and development –		
	Determinants of economic development-	8	
I	Features f Indian economy.		
Economic	c) Barriers to economic development -		
Development and	National income – Methods of	6	Descriptive Method/
National	MeasuringNational income.		Power Point Presentation
Incom	d) National income trends – Difficulties in		
	Measuring National income- Uses of	6	
	National income estimates.		
	a) Features of India's Population – Causes		
	for rapid growth of population –		
	Population explosion and its consequences.	6	
	e) Remedial measures to control population-		
***	Malthusian Theory of population –Optimum		
Ш	Theory of population.	4	
	f) Poverty – Absolute and Relative poverty –		Descriptive Method
Population,	Causes of poverty – Poverty Alleviation	_	And Assignment
Poverty,	Programme.	5	
Unemployment	g) Unemployment – Causes of unemployment		
	Types of unemployment - Short term and		
	Long term remedies.	5	
	h) Agriculture and its role in economic	_	
III	development – Agricultural productivity –	5	
	Causes for low agricultural productivity in		
Agriculture	India –		
	b) Government's Measures – Green Revolution		
	- Features of Green Revolution – Benefits of	5	
	Green Revolution.		
	i) Agricultural Price Policy- Objectives –		Descriptive Method
	Instruments of price policy –defects –Food		And Assignment
	Security in India.	5	
	a) Importance of Industrialization in India –		
	Role of MSMEs and Large scale industries-	5	
IV	Problems of MSMEs –Remedial measures.		
Industries	j) Industrial Policies of 1948,1956,1982 and		
	1991 New Industrial Policy – its defects –	5	
	Recent changes.		
	k) Role of Public sector in India – Problems		Descriptive Method
	of public sector undertakings – Concept of		And Assignment
	Privatization – Arguments for and against	5	
	Privatization- Disinvestment.		
	Commercial banks and its role in economic		
V	development- Functions and Role of RBI –	5	
	m) India's Foreign Trade – Direction and	Ĭ	
Banking,	Composition – Balance of Trade and	4	
Foreign Trade,	Balance of Payments –		
Planning.	n) Disequilibrium in Balance of Payment -		
	causes – Export Promotion Measures-Role	5	Descriptive Method/
	of EXIM Bank.		Power Point Presentation
	o) India's Five Year Plans – Objectives – XII		
		6	
	j	6	
L	Mission.		

Programme	B.A.(History)	Programme Code	UHI				
Course Code	20UHIA11	Number of Hours/ Cycle	6				
Semester	I	Max. Mark	100				
Part	III	Credit	4				
ALLIED COURSE							
Course Title	rrse Title GENERAL ECONOMICS – I						
Cognitive Level	Upto K 3						

Economics is a subject which is very much relevant to our life. Through this course the students will be able to explore the relevance of various aspects of microeconomics with our day to day activities. The knowledge about the concepts of demand, supply, elasticity of demand, consumer surplus, demand forecasting will enable them to understand the actual market trends, predict for the future and take the business decisions accordingly. The knowledge of various market structures will make them understand business well and enable them to take the business decisions efficiently.

Unit-I Scope and Methodology of Micro Economics

20 Hours

Meaning – Difference between Micro and Macro Economics – Main Divisions in Economics - Definition of Economics – Adam Smith - Marshall - Robbins -- Samuelson – Economics Science or Art - Normative or Positive - Methodology of Economics; Deductive Method and Inductive Method – Nature of Economic Laws – Human Wants and its Characteristics.

Unit-IITheory of Consumer Behavior 20 Hours

Utility - Cardinal Utility - Law of Diminishing Marginal Utility - Law of Equi-Marginal utility - Law of Demand - Law of Supply. Shift in the Demand Curve- Elasticity of Demand and its kinds; Price Elasticity of Demand - Income Elasticity of Demand - Cross Elasticity of Demand - Factors influencing Elasticity of Demand - Methods of Measuring of Elasticity of Demand - Uses of Elasticity of Demand - Consumer's Surplus-Applications of consumer's Surplus.

Unit-III Theory of Production

17 Hours

Factors of Production -Characteristic features of land, Labor, Capital and Organization – Laws of Returns – Law of Variable Proportion – Division of Labor – Labor Productivity – Localization of Industries –Theories of Population – Malthusian Theory, Optimum Population Theory, Theory of Demographic Transition – Population and Economic Development.

Unit-IV Economic Organization17Hours

Capital Formation – Role of Capital Formation in Economic Development – Sources of Capital Formation – Reasons for low Capital Formation -Domestic and Foreign Capital – Importance of Foreign Capital –Physical Capital and Human Capital -Meaning and functions of Entrepreneur. Qualities of a good Entrepreneur. Forms of business organizations ; individual Entrepreneur – Partnership Firm – joint Stock Company – Cooperative Enterprise – State Enterprises.

Unit-VMARKET STRUCTURE AND PRICING16Hours

Cost and Revenue Concepts – Nature of cost curves and Revenue curves – Short run and Long run cost curves - Perfect Competition – Feature – Price output determination. Monopoly – causes for Monopoly – Kinds of monopoly –Price output determination - Measures to check Monopoly. Monopolistic Competition – Features – Price and output determination –Wastages under Monopolistic Competition. Oligopoly an its features – Effects of Oligopoly – Evils of Oligopoly

Pedagogy

Class Room Lectures, Power point presentation, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study

Text Book

1. S.Sankaran (1991) *Economic Analysis*, Margham Publications, Madras.

Reference Books

- 1. Ahuja H.L. (1996), *Principles of Micro Economics*, A New look at Economic Theory, S.Chand and Company, New Delhi.
- 2. Dewett K.K (2009), Micro Economics, S.Chand and Company, New Delhi.
- 3. Jhingan M.L, (2008) Micro Economic Theory, Konark Publishers, New Delhi

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

	Course Outcome						
CO1	Recall the fundamental concepts and principles of economics						
CO2	Associate the behavioral analysis of consumer through cardinal utility analysis						
CO3	Explain the Production function and its related theories						
CO4	Interpret the importance of capital and the functions of entrepreneur.						
CO5	Illustrate different Cost curves and Revenue curves and price determination under different						
	markets.						

Mapping of Programme Specific Outcomes and Course Outcomes

Course Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11	PSO12
CO 1	1	2	1	1	1	2	-	1	2	1	2	1
CO 2	1	2	1	1	2	2	-	2	2	1	2	1
CO 3	1	2	1	2	2	2	-	2	2	1	2	1
CO 4	1	2	2	2	2	2	-	2	2	1	2	1
CO 5	1	2	2	2	2	2	_	2	2	1	2	1

^{1 –} Low, 2 – Medium & 3- High

Articulation Mapping - K Levels with Course Outcomes (COs)

			Section A		Section B	Section C
Units	COs	K – Level	MCQs		Either/or Choice	Open Choice
			No. Of Questions	K-Level	No. Of Questions	No. Of Questions
1	CO1	Up to K1	2	K1 & K1	2(KI&K1)	1(KI)
2	CO2	Up to K2	2	K1 & K2	2(K2&K2)	1(K2)
3	CO3	Up to K3	2	K1 & K2	2(K3&K3)	1(K3)
4	CO4	Up to K2	2	K1 & K2	2(K2&K2)	1(K2)
5	CO5	Up to K3	2	K1 & K2	2(K3&K3)	1(K3)
No of Q	uestions	to be asked	10		10	5
No of C	No of Questions to be answered		10		5	3
Marks for each Question		1		4	10	
Total M	larks for	each Section	10		20	30

- K1 Remembering and recalling facts with specific answers
- K2 Basic understanding of facts and stating main ideas with general answers
- K3 Application oriented Solving problems
- K4 Examining, analyzing, presentation and make inferences with evidences

KLOVALC	Section A (No Choice)	Section B (Either/or)	Section C (Open Choice)	Total Marks	% of Marks without choice
K1	6	8	10	24	24%
K2	4	16	20	40	40%
K3		16	20	36	36%
K4					
Total Marks	10	40	50	100	

LESSON PLAN		HOUDE	MODE
UNIT	DESCRIPTION DESCRIPTION DESCRIPTION	HOURS	MODE
	a) Meaning – Difference between Micro and		
I	Macro Economics - Main Divisions in		
Scope and	Economics - Definitions of Economics - Adam	7	
Methodology	Smith – Alfred Marshall	7	
of Micro –	b) Lionel Robins – Paul Samuelson	6	
Economics	EconomicsScience or Arts – Normative or	6	Descriptive Method
	Positive,	7	And Assignment
	c) Methodology of Economics ; DeductiveMethod and Inductive Method –	7	
	Nature of Economic Laws – Human wants and		
	its Characteristics.		
	a) Utility—Cardinal Utility – Law of	6	
II	DiminishingMarginal Utility –Law of demand –	O	
11	Law of Supply- Shift in the demand curve.		
Theory of	b) Elasticity of Demand and its kinds; Pricez		
Consumer	Elasticity-Inceme Elasticity and CrossElasticity	7	
Behavior	of demand - Factors influencing Elasticity of		Descriptive Method/
	demand/		Power Point
	c) Methods of Measuring Elasticity of demand	7	Presentation
	 Uses of Elasticity of demand – Consumer's 		
	Surplus – Application of Consumer's Surplus.		
	a) Factors of Production- Characteristic		
	features of Land, Labor, Capital and		
III	Organization - Laws of Return - Law of	7	
	Variable Proportion.		
Theory of	b) Division of Labor - Labor Productivity -	4	
Production	Localization of industries.		
	c) Theories of Population- Malthusian Theory –		Descriptive Method
	Optimum Population Theory- Theory of		And Assignment
	Demographic Transition – Population and	6	
	Economic development.		
	a) Capital Formation –Role of Capital		
	Formationin economic development-Sources of		
IV	capital Formation- Domestic and Foreign	6	
] = .	capital –Reasons for low domestic capital.	_	
Economic	b) importance of Foreign Capital-		
Organization	PhysicalCapital and Human Capital – Meaning		
	and	6	T
	Functions of Entrepreneurs – qualities of a		Descriptive Method
	Good Entrepreneur.		And Assignment
	c) Forms of business organizations — individual		
	Entrepreneur – Partnership Firm – joint Stock	5	
	Company - Cooperative Enterprise -		
	StateEnterprise/		
	a) Cost and Revenue Concepts - Nature of	5	
V	costcurves and Revenue curves – Short run and		
	Long run cost curves.		
Market	b) Perfect Competition – Feature – Price output	_	
Structure and	Determination. Monopoly – causes	6	
Pricing	forMonopoly - Kinds of monopoly - Price		Descript 35 d d
	output		Descriptive Method/
	Determination- Measures to check Monopoly.		Power Point
	c) Monopolistic Competition – Features – Price	5	Presentation
	and output determination —Wastages	5	
	underMonopolistic Competition. Oligopoly		
	and Its features –Effects of Oligopoly – Evils of Oligopoly.		
<u> </u>	Ongopory.		<u> </u>

Programme	B.A.(History)	Programme Code	UHI
Course Code	20UHIA21	Number of Hours/ Cycle	6
Semester	II	Max. Mark	100
Part	III	Credit	4
Allied			
Course Title	GENERAL ECO	ONOMICS – II	
Cognitive Level	Upto K 3		

General Economics II is based on Macro economics. On account of the growing influence and involvement of the State in economic fields, macroeconomics has become a major area of economic analysis in terms of theoretical, empirical as well as policy-making issues. Macroeconomics has an extensive, substantive as well as methodological content. It deals with the functioning of the economy as a whole, the objective of the course is to familiarize the students the basic concept of Macro Economics and application. Macro economics has an extensive, substantive as well as methodological content. It deals with the functioning of the economy as a whole, including how the economy's total output of goods and services and employment of resources is determined and what causes these totals to fluctuate. The Paper is designed to make an undergraduate student aware of the basic theoretical framework underlying the field of macroeconomics.

UNIT I ECONOMIC DEVELOPMENT AND NATIONAL INCOME 20 Hours

Economic growth and development – Determinants of economic development – Features of Indian Economy – Barriers to economic development – National Income – Methods of measuring National Income – National Income – Uses of National Income estimates.

UNIT II MONEY AND BANKING

18 Hours

Definition - Functions of money - Quantity theory of money - Transaction Approach - Cambridge version - Role of money in capitalist and Socialist economies - Commercial bank and its Functions - Role of Commercial Banks in Economic Development. Central Bank and its Functions - Role of Central Bank in Economic Development- Monetary Policy and its Objectives.

UNIT III INTERNATIONAL TRADE

18 Hours

Difference between internal and international trade – Importance of International Trade- Theories of International Trade ; Comparative cost Theory – Purchasing Power Parity Theory - General equilibrium Theory – Balance of Trade - Balance of payment –Causes for disequilibrium – measures for correcting disequilibrium in balance of payments – Free Trade Policy – Merits and Demerits - Protection Trade Policy – Arguments for and against. WTO and its Function.

UNIT IV INFLATION & TRADE CYCLE

16 Hours

Meaning and kinds of inflation – causes and effect of inflation – measures to correct inflation – deflation – causes – stagflation – trade cycle – components – Anti-cyclical Monetary policy – objectives.

UNIT V PUBLIC REVENUE & PUBLIC EXPENDITURE 18 Hours

Cannon of taxation – direct tax and indirect tax – sources of public revenue –Suggestions for increasing public revenue – causes for the growth of public expenditure in India – features and preparation of budget – public debt and methods of redemption - NITI Aayok

Pedagogy

Class Room Lectures, Power point presentation, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study

Text Book

1. Sankaran, S. (2003), Economic Analysis, Margham Publishers, Chennai.

Reference Books

- 1 .Ahuja.HL (2014), Principles of Economics, Sultan Chand Publishing, New Delhi
- 2 .Seth, M.L. (1992), Principles of Economics, S Chand & Co., New Delhi.
- 3 .Sundaram, K.P.M (1995), Money, Banking, Trade & Finance, Sultan Chand & Sons., New Delhi

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

CO ₁	Relate the measures of National Income with economic development.							
CO ₂	Classify the functions of Money and the role of Banks in economic development.							
CO ₃	Summarize the importance of international trade, trade policy and theories.							
CO ₄	Interpret the impact of inflation, deflation and the phases of trade cycle.							
CO ₅	Explain the trends of public revenue and public expenditure in India							

Mapping of Programme Specific Outcomes and Course Outcomes

Course Outcomes	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10	PSO11	PSO12
CO 1	2	2	1	1	2	1	-	2	1	1	2	1
CO 2	1	1	1	1	1	1	-	1	1	1	2	1
CO 3	2	2	1	1	2	1	-	2	1	1	2	1
CO 4	2	2	-	1	2	1	-	2	1	1	2	1
CO 5	2	2	1	1	2	1	-	2	1	1	2	1

^{1 –} Low, 2 – Medium & 3- High

Articulation Mapping - K Levels with Course Outcomes (COs)

			Section A	,	Section B	Section C Open Choice	
Units	COs	K – Level	MCQs		Either/or Choice		
			No. Of Questions	K-Level	No. Of Questions	No. Of Questions	
1	CO1	Up to K2	2	K1 & K2	2(K2&K2)	1(K2)	
2	CO2	Up to K1	2	K1 & K1	2(K1&K1)	1(K1)	
3	CO3	Up to K2	2	K1 & K2	2(K2&K2)	1(K2)	
4	CO4	Up to K2	2	K1 & K2	2(K2&K2)	1(K2)	
5	CO5	Up to K3	2	K1 & K2	2(K3&K3)	1(K3)	
No of Q	uestion	s to be asked	10		10	5	
No of Q	No of Questions to be answered		10		5	3	
Marks for each Question		1		4	10		
Total M	larks for	each Section	10		20	30	

- K1 Remembering and recalling facts with specific answers
- K2 Basic understanding of facts and stating main ideas with general answers
- K3 Application oriented Solving problems
- K4 Examining, analyzing, presentation and make inferences with evidences

K Levels	Section A (No Choice)	Section B	Section C (Open Choice)	Total Marks	% of Marks without choice
K1	6	8	10	24	24 %
K2	4	24	30	58	58%
K3	-	8	10	18	18%
K4	-	-	-		
Total Marks	10	40	50	100	

I Determinants of economic development Determinants of evolopment Determinants of development Features Indian economy. b) Barriers to economic development -National income — Methods of MeasuringNational income. p)National income trends — Difficulties in Measuring National income. p)National income estimates. a) Definition — Functions of Money — Quantity Theory of Money — Transaction Approach — Cambridge Version — Role of Money in (Capitalistic and Socialistic Economics. b) Commercial Banks and its Functions -Role of Central Bank in EconomicDevelopment. c) Central Bank in Economic Development — Monetary Policy and its Objectives. a) Difference between Internal and Inter—National Trade— International Trade— Balance of Inter-National Trade— Parity Theory—General EquilibriumTheory. b) Balance of Trade—Balance of Payment—Comparative Cost Theory-PurchasingPower Parity Theory—General EquilibriumTheory. b) Balance of Trade—Balance of Payment—Corrective Measures, c) Free Trade Policy—Arguments for and Against—WTO and its Function. a) Inflation—Corrective Measures, c) Free Trade Policy—Arguments for and Against—WTO and its Function. b) Effect of inflation and controlling measures. c) Deflation—Meaning—Types of Inflation—Causes for Inflation—Beatures—Phases of business cycle—Gauses of business cycle—Effects—Anti—cyclicalMonetary and Fiscal Measures. c) Cheflation—Meaning—Causes and Effects—Controlling Measures. d) Business cycle—Effects—Anti—cyclicalMonetary and Fiscal Measures. c) Causes for the growth of Public Expenditure—Revenue and expenditure of the Central and State Government. b) Cannons of Taxation—Direct and indirect Taxes: Ments and demerits—Incidence of Flaxation. c) Public debt—Burden of Public debt both internal and external—Redemption of public Debt. d) Budget—types of budget—Preparation and	UNIT	DESCRIPTION	HOURS	MODE
Economic Development General Equilibrium Theory. III Determinants of economic development—National income — Methods of MeasuringNational — Presentation III — Measuring National income trends — Difficulties in Measuring National income — Money — Transaction — Approach — Cambridge Version — Role of Money inCapitalistic and Socialistic Economies. b) Commercial Banks and its Functions — Role of Central Bank in Economic Development — Monetary Policy and its Objectives. a) Difference between Internal and Inter — National Trade — Theories of International Trade: Importance of International Trade — Theories of International Trade — Theories of International Trade — Causes for disequilibrium in Balance of Payment — Causes for Inflation — Causes for the Payment — Controlling Measures. d) Business cycle — Effects — Anti — cyclicalMonetary and Fiscal Measures. d) Business cycle — Effects — Anti — cyclicalMonetary and Fiscal Measures. a) Causes for the growth of Public Expenditure Revenue and expenditure of the Central and State Government. b) Cannons of Taxation — Direct and indirect Taxes ; Merits and demerits — Incidence of Taxation. c) Public debt — Burden of Public debt — Types of Public debt — Surden of Public debt — Surden of Public debt	UNII			MODE
Economic Development Dev			0	
Economic Development and National Income	I			
Development income — Methods of MeasuringNational income — Methods of MeasuringNational income — Methods of MeasuringNational income — Uses of National income estimates. a) Definition — Functions of Money — Quantity Theory of Money — Transaction Approach — Cambridge Version — Role of Money inCapitalistic and Socialistic Economies. b) Commercial Banks and its Functions – Role of Central Bank in Economic Development — Monetary Policy and its Objectives. a) Difference between Internal and Inter — National Trade — Importance of Inter-National Trade — Theories of International Trade — Comparative Cost Theory-PurchasingPower Parity Theory — General Equilibrium Theory. b) Balance of Trade — Balance of Payment — Course for disquilibrium in Balance of Payment — Course for disquilibrium in Balance of Payment — Course for disquilibrium in Balance of Payment — Course for International Trade — Policy — Merits and demerits-Protection Trade Policy — Merits and demerits — Controlling Measures. c) Deflation — Meaning — Types of Inflation — Causes for Inflation — Gauses for Inflation and controlling measures. c) Deflation — Meaning — Causes and Effects — Controlling Measures. d) Business cycle — Meaning — Definition — Features - Phases of business cycle — Causes of business cycle — Causes of business cycle — Causes of business cycle — Controlling Measures. d) Business cycle — Merits — Method — Power — Point Presentation Presentation Descriptive Method And Assignment — Cause for public debt — Types of Public debt — Survey — Descriptive Method And Assignment — Causes in the folicy — Causes of Public debt — Survey — Controlling Measures. d) Business cycle — Merits and demerits — Provey — Provey — Provey — Prove			6	
income income pylational income trends — Difficulties in Measuring National income estimates. a) Definition - Functions of Money — Quantity Theory of Money — Transaction Approach — Cambridge Version — Role of Money inCapitalistic and Socialistic Economies. b) Commercial Banks and its Functions - Role of Commercial Banks in EconomicDevelopment. c) Central Bank in Economic Development - Monetary Policy and its Objectives. a) Difference between Internal and Inter — National Trade - Importance of International Trade - Theories of International Trade - Theories of International Trade - Theories of International Trade - Payment — Causes for disequilibrium in Balance of Payment — Crective Measures, c) Free Trade Policy — Merits and demerits-Protection Trade Policy — Arguments for and Against — WTO and its Function. a) Inflation — Causes for Inflation	Economic		б	Descriptive Method/
and National Income p)National income trends - Difficulties in Measuring National income estimates.	Development			Power Point
Measuring National income - Uses of National income estimates. a) Definition - Functions of Money - Quantity Theory of Money - Transaction Approach - Cambridge Version - Role of Money inCapitalistic and Socialistic Economies. Money and Banking				Presentation
National income estimates.	Income		б	
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As per the TANSCHE Syllabus

Programme	B.Com	Programme Code	UCO			
Course Code	20UCOA31	Number of Hours/Cycle	L 5 T 1			
Semester	III	Max. Marks	100			
Part	III	Credit	4			
CORE COURS	E					
Course Title	Business Statistic	es				
Cognitive Level		Up to K3				

This course is designed to provide students with an understanding of the need for the Primary data and Secondary data, how they are collected, tabulated and presented. It illustrates the role of Measures of Central Tendency and Dispersion in Statistics. It educates the students about the Correlation, Regression, Index number and Time Series Analysis in Statistics.

Unit I	Data and Presentation of Data	18 Hours
	Introduction: Introduction to Statistics- Meaning and Definition –	
	Functions – Importance – Data collection – Sources – Primary-	
	Secondary – Techniques – Census – Sampling – Classification –	
	Presentation – Tabulation – Diagrammatic Representation –	
	Graphical presentation	40.77
Unit II	Measures of Central Tendency and Dispersion	20 Hours
	Measures of Central Tendency: Arithmetic mean – Combined	
	mean – Median – Mode – Geometric mean – Harmonic mean	
	Measure of Variations: Introduction - Range – Mean deviation	
	-Quartile deviation - Variance - Standard deviation - Combined	
	Standard deviation - Co-efficient of Variation - Skewness -	
T124 TTT	Kurtosis	20 TT
Unit III	Correlation and Regression Analysis	20 Hours
	Correlation: Concept, Types and uses - Methods of studying	
	correlation – Scatter diagram – Graphic method – Karl Pearson's	
	Co-efficient of Correlation, Rank Correlation, Concurrent deviation	
	method Regression analysis Consent Relation between Correlation and	
	Regression analysis: Concept – Relation between Correlation and	
	Regression - Regression equations - Least square method - Deviations taken from actual mean and assumed mean method	
Unit IV	Index Number	16 Hours
	Meaning – Features – Classification of index numbers –	
	Construction of index numbers – Various Price and Quantity index	
	number – Consumer price index number	
Unit V	Time Series	16 Hours
	Analysis of time series – components – Methods of determining	
	trend - Graphical Method - Semi average method - Moving	
	Average Method - Method of Least Square - Measurements	
	Seasonal Variations – method of simple average only	
Iı	nstruction for framing Question Paper (Problems – 60% and Theory	y – 40 %)

Pedagogy

Class Room Lectures, Power point presentation, Peer Learning, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study.

Text Book

- **1.** Pillai R. S. N.and Bagavathi, V. (2019), *Statistics theory and Practice*, S Chand & Co, New Delhi.
- 2 Gupta, S. P. (2020), Statistical Methods, S Chand & Co, New Delhi.

Reference Books

- 1. Gupta, C. B. (2011), Statistical Methods, Sultan Chand & Co, New Delhi.
- 2. Srivatstava T N and Shailaja Rego (2010), *Statistics for Management*, Tata McGrew Hill Education Private Limited, New Delhi.
- **3.** James T. McClave (2013), *Statistics for Business and Economics*, Pearson Publisher, New Delhi
- 4. Richars I. Levine (2014), Business Statistics, Prentice Hall Publihers, New Delhi.
- **5.** Dr. Sancheti D C and Kapoor V K (2003), *Statistics (Theory, Methods & Application)*, Sultan Chand & Sons, New Delhi.

E-Resources

- www.toppr.com
- www.wrps.org
- www.managementstudyguid.com
- www.datasciencecentral.com
- www.economicsdiscussion.net
- www.statisticssolutions.com

Course Outcomes

(After completion of this course, the students will be able to)

CO1	Interpret the Data and Presentation of Data.	K2
CO2	Illustrate the Measures of Central Tendency and Identify the Measures of Dispersion.	K3
CO3	Apply and Interpret the Correlation Co-efficient and Simple Linear Regression Analysis in the business context.	К3
CO4	Construct Simple, Weighted and Cost of Living Index Numbers.	K3
CO5	Utilize the models of Time Series to forecast the business trend.	K3

Mapping of Course Outcomes (COs) with Programme Specific Outcomes

	PS	PS	PSO									
	О	O2	3	4	5	6	7	8	9	10	11	12
	1											
CO 1	2	3	3	3	2	2	1	2	2	1	1	1
CO 2	2	3	3	3	2	2	1	2	2	1	1	1
CO 3	2	3	3	3	2	2	1	2	2	1	1	1
CO 4	2	3	3	3	2	2	1	2	2	1	1	1
CO 5	2	3	3	3	2	2	1	2	2	1	1	1

^{3.} High; 2. Moderate; 1. Low

Articulation Mapping - K Levels with Course Outcomes (COs) (Model)

			Section	n A	Section B	Section C
Units	COs	K-Level	MCQs		Either/ or Choice	Open Choice
			No. Of Questions	K- Level	No. Of Question	
1	CO1	Up to K2	2	K1&K1	2(K1&K1)	1(K2)
2	CO2	Up to K3	2	K1&K2	2(K2&K2)	1(K3)
3	CO3	Up to K3	2	K1&K2	2(K2&K2)	1(K3)
4	CO4	Up to K3	2	K1&K2	2(K2&K2)	1(K2)
5	CO5	Up to K3	2	K1&K2	2(K2&K2)	1(K3)
No of Qu	estions to	be asked	10		10	10
No of Questions to be answered		10		5	3	
Marks for each Question		1		6	10	
Total ma	rks for ea	ch Section	10		20	30

 $K1-Remembering \ and \ recalling \ facts \ with \ specific \ answers$

K2 – Basic understanding of facts and stating main ideas with general answers

K3 – Application oriented – Solving problems

K Levels	Section A (No Choice)	Section B (Either/or)	Section C (Open Choice)	Total Marks	% of Marks without Choice
K1	6	8	-	14	14
K2	4	32	20	56	56
К3	_	-	30	30	30
Total Marks	10	40	50	100	100

Lesson Plan

Unit	Data and Presentation of Data	Hours	Mode
I	a. Statistics	1	
	b. Meaning and Definition	1	
	c. Functions	1	
	d. Importance	1	CI D
	e. Data collection	2	Class Room
	f. Sources	1	Lecture/
	g. Primary data	1	Seminar/
	h. Secondary data	1	Power Point
	i. Techniques	1	Presentation /
	j. Census	1	Peer Learning
	k. Sampling	1	/Problem
	1. Classification	2	Solving
	m. Presentation	1	
	n. Tabulation	1	
	o. Diagrammatic Representation	1	
	p. Graphical Presentation	1	
Unit	Measures of Central Tendency and	Hours	3.6.3
II	Dispersion		Mode
	a. Arithmetic mean	2	
	b. Combined mean	1	
	c. Median	1	Class Room
	d. Mode	2	Lecture/
	e. Geometric mean	2	Seminar/
	f. Harmonic mean	2	Power Point
	g. Range	1	Presentation /
	h. Quartile deviation	2	Peer Learning
	i. Mean deviation	2	/Problem
	j. Standard deviation	2	Solving
	k. Combined Standard deviation	1	
	I. Co-efficient of Variation	2	
Unit	Correlation and Regression Analysis	Hours	Mode
III	a. Correlation	1	111000
	b. Meaning, Types and uses	2	
	c. Methods of studying correlation	1	
	d. Scatter diagram	2	Class Room
	e. Graphic method	2	Lecture/
	f. Karl Pearson's Co-efficient of Correlation	1	Seminar/
	g. Rank Correlation	2	Power Point
	h. Concurrent deviation method	1	Presentation /
	i. Regression analysis	2	Peer Learning
	j. Relation between Correlation and Regression	1	/Problem
	k. Regression equations	1	Solving
	I. Least square method	2	
	m. Deviations taken from actual mean and		
	assumed mean method	4	
Unit	Index Number	Hours	Mode
IV	a. Meaning	2	Class Room
1 4	b. Features	2	Lecture/
	c. Classification of index numbers	3	Seminar/
	d. Unweighted index numbers	1	Power Point
	e. Weighted index number	2	Presentation /
		4	Peer Learning
	e. Various Price & Quantity index number	_	/Problem
	f. Consumer price index number	2	Solving
			Sorving
		1	

Programme	B.Com	Programme Code	UCO	
Course Code	20UCOA41	Number of Hours/Cycle	L 5 T 1	
Semester	IV	Max. Marks	100	
Part	III	Credit	4	
CORE COURS	CORE COURSE			
Course Title	Business Mather	natics		
Cognitive Level		Up to K3		

Course designed by Dr. P. Ravichandran, Associate Professor of Economics.

Preamble

The course on Business Mathematics illustrates the Arithmetic Applications of Mathematics, Basic applications of mathematical reasoning. It means the role of Set theory, Algebra, Differential, Integral Calculus and Matrices in solving business problems. It also educates the significance of Mathematics in giving solutions to problems frequently arising in the business.

Unit I	Basic Mathematical Concepts	18 Hours
	Ratios and Proportions – Basic laws of ratios, Proportions – Continued,	
	Direct, inverse, Compound, Mixed proportions (Time and work only) –	
	Variation – Percentage – Application in business and commerce	
Unit II	Theory of Sets	16 Hours
	Elements of set Theory – Definition – Symbols – Roster method and	
	Rule method – Types of sets – Union and Intersection – Sub sets –	
	Complements – Difference of two sets – Family of Sets – Venn	
	diagram – De-Morgon's law	
Unit III	Mathematics for Finance	18 Hours
	Interest – Simple – Compound – Normal rate – Effective rate – Types	
	of annuities – immediate, due, deferred, continuous, perpetual and their	
	future and present values – Present value – Discounting of bills – Face	
	value of bills – Banker's discount – Banker's gain – Normal due date –	
	Legal due date – Calculation of period for banker's discount and true	
	discount	
Unit IV	Calculus	20 Hours
	Differential calculus (excluding trigonometric functions) - Rules -	
	Sum rule – Product rule - Quotient rule, functions of a function rule	
	(Simple problems only) – Maxima and Minima (Single variable cases)	
	– Methods of integral calculus – Rules (Excluding integration by parts	
	of Fractions) – Simple problems only	
Unit V	Matrices	18 Hours
	Introduction - Types of Matrices - Addition, Subtraction and	
	Multiplication – Properties – Determinants - Matrix Inversion	
	Techniques - Solving a system of linear equation using matrix	
	inversion - Rank of matrix - Testing consistency of equations	
Instruction	on for framing Question Paper (Problems – 70% & Theory – 30 %)	

Pedagogy

Class Room Lectures, Power point presentation, Peer Learning, Group Discussion, Seminar, Quiz, Assignments, Experience Sharing, Brain storming, Activity, Case Study.

Text Book

- 1. Manoharan, M. and Elango, C. (2019), Business Mathematics, Palani Paramount Publishers, Palani.
- 2. Vittal, P.R. (2019), Business mathematics, Margham Publications, Chennai.

Reference Books

- 1. Sancheti, D.C. and Kapoor, V.K. (2021), Business Mathematics, Sultan Chand & Co, New Delhi.
- 2. Jeyaseelan and Sundaresan (2015), Business Mathematics, S Chand & Co, New Delhi.
- 3. Ranganathan, G. K. (2014), Business Mathematics, Girija Publishers, Chennai.
- 4. Sharma, J. K. (2016), Business Mathematics, I.K. International Publishing House Pvt. Ltd, New Delhi.
- 5. Singh, J. K. (2013), Business Mathematics, Himalaya Publishing House, New Delhi.

E-Resources

- www.toppr.com
- www.smallbusiness.chron.com
- www.educba.com
- <u>www.oreilly.com</u>
- www.brainkart.com
- www.scribd.com

Course Outcomes

After completion of this course, the students will be able to:

	,	
CO1	Discuss the various mathematical applications.	K2
CO2	Acquire the basic arithmetic operations on set theory.	K2
CO3	Understanding the basic meaning in the areas of elementary function and financial mathematics.	K2
CO4	Solving business problems by applying various mathematical tools including Differential and Integral Calculus.	К3
CO5	Utilize the contributions of matrices for the business.	К3

Mapping of Course Outcomes (COs) with Programme Specific Outcomes

3. 2.

	PS O 1	PS O2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10	PSO 11	PSO 12
CO 1	2	3	3	3	2	1	1	1	2	1	1	1
CO 2	2	3	3	3	2	1	1	1	2	1	1	1
CO 3	2	3	3	3	2	1	1	1	2	1	1	1
CO 4	2	3	3	3	2	1	1	1	2	1	1	1
C0 5	2	3	3	3	2	1	1	1	2	1	1	1

High;

Moderate; 1. Low

Articulation Mapping - K Levels with Course Outcomes (COs) (Model)

			Section A		Section B	Section C
Units	COs	Os K-Level MCQs I		Either/ or Choice	Open Choice	
			No. Of Questions	K-Level	No. Of Questions	No of Questions
1	CO1	Up to K2	2	K1&K1	2(K2&K2)	1(K2)
2	CO2	Up to K2	2	K1&K1	2(K1&K1)	1(K2)
3	CO3	Up to K2	2	K1&K1	2(K1&K1)	1(K2)
4	CO4	Up to K3	2	K2&K2	2(K2&K2)	1(K3)
5	CO5	Up to K3	2	K1&K2	2(K2&K2)	1(K3)
No of Q	uestions	to be asked	10		10	5
No of Q	uestions t	to be answered	10		5	3
Marks f	Marks for each Question		1		4	10
Total m	arks for e	each Section	10		20	30

K1 – Remembering and recalling facts with specific answers

K2 – Basic understanding of facts and stating main ideas with general answers

K3 – Application oriented – Solving problems

K Levels	Section A (No Choice)	Section B (Either/or)	Section C (Open Choice)	Total Marks	% of Marks without Choice
K1	7	16	-	23	23
K2	3	24	30	57	57
К3	-	-	20	20	20
Total Marks	10	40	50	100	100

Lesson Plan

Unit	Basic Mathematical Concepts	Hours	Mode
I	a. Ratios	2	
	b. Basic laws of ratios	1	Class Room
	c. Proportions -Types	2	Lecture/
	d. Continued proportions	1	Seminar/
	e. Direct proportions	1	Power Point
	f. Inverse proportions	1	Presentation /
	g. Compound proportions	2	Peer Learning
	h. Mixed proportions (Time and work only)	2	/Problem
	i. Variation	2	Solving
	j. Percentage	2	
	k. Application in business and commerce	2	
Unit	Theory of sets	Hours	Mode
II	a. Elements of set Theory	1	
	b. Definition, Symbols	1	Class Room
	c. Roster method and Rule method	1	Lecture/
	d. Types of sets	2	Seminar/
	e. Union and Intersection	1	Power Point
	f. Sub sets	1	Presentation /
	g. Complements	1	Peer Learning
	h. Difference of two sets	1	/Problem
	i. Family of Sets	1	Solving
	j. Venn diagram	3	
	k. De-Morgon's law	3	
	Mathematics for Finance	Hours	Mode
	a. Types of Interest	1	
Unit	b. Simple, Compound, Normal rate, Effective rate	4	
III	c. Types of annuities	1	Class Room
	d. Immediate, due, deferred, continuous, perpetual	4	Lecture/
	and their future and present values		Seminar/
	e. Discounting of bills	1	Power Point
	f. Face value of bills	1	Presentation /
	g. Banker's discount	1	Peer Learning
			/Problem
	h. Banker's gain	1	Solving
	i. Normal due date	1	
	j. Legal due date	1	
	k. Calculation of period for banker's discount and	2	

true discount	