

B.A. ECONOMICS

SEM	COURSE CODE	PART	COURSE	COURSE TITLE	Ins. Hrs /Week	CREDIT	MARKS		TOTAL
							CIA	ESE	
I	20U1LT1/LA1/LF1/LH1/LU1	I	Language – I		6	3	25	75	100
	20UCN1LE1	II	English - I		6	3	25	75	100
	20UEC1CC1	III	Core – I	Indian Economy - I	4	4	25	75	100
	20UEC1CC2		Core – II	Micro Economic Analysis – I	4	3	25	75	100
	20UEC1AC1		Allied –I	Economic Statistics - I	4	3	25	75	100
	20UEC1AC2		Allied –II	Marketing	4	3	25	75	100
	20UCN1AE1	IV	AEC-I	Value Education	2	2	-	100	100
		TOTAL			30	21			700
II	20U2LT2/LA2/LF2/LH2/LU2	I	Language – II		6	3	25	75	100
	20UCN2LE2	II	English – II		6	3	25	75	100
	20UEC2CC3	III	Core – III	Indian Economy - II	5	4	25	75	100
	20UEC2CC4		Core – IV	Micro Economic Analysis – II	4	3	25	75	100
	20UEC2AC3		Allied – III	Economic Statistics - II	4	3	25	75	100
	20UEC2A4P		Allied –IV	Computer Applications in Economics - Practical	3	2	25	75	100
	20UCN2SE1	IV	Skill Enhancement Course - I @	Soft Skills Development	2	2	-	100	100
		TOTAL			30	20			700
III	20U3LT3/LA3/LF3/LH3/LU3	I	Language– III		6	3	25	75	100
	20UCN3LE3	II	English – III		6	3	25	75	100
	20UEC3CC5	III	Core– V	Micro Economic Analysis – III	4	4	25	75	100
	20UEC3CC6		Core– VI	Industrial Economics	3	2	25	75	100
	20UEC3AC5		Allied– V	Mathematical Applications in Economics	4	3	25	75	100
	20UEC3AC6		Allied–VI	Human Resource Management	3	2	25	75	100
	20UEC3GE1	IV	Generic Elective I #		2	2	-	100	100
	20UCN3AE2		AEC-II	Environmental Studies	2	2	-	100	100
		TOTAL			30	21			800
IV	20U4LT4/LA4/LF4/LH4/LU4	I	Language–IV		6	3	25	75	100
	20UCN4LE4	II	English– IV		6	3	25	75	100
	20UEC4CC7	III	Core– VII	Monetary Economics	4	4	25	75	100
	20UEC4CC8		Core - VIII	Economic Systems	4	3	25	75	100
	20UEC4AC7		Allied– VII	Financial Economics	4	3	25	75	100
	20UEC4AC8		Allied–VIII	Econometrics	4	2	25	75	100
	20UEC4GE2	IV	Generic Elective - II #		2	2	-	100	100
	20UCN4EA	V	Extension Activities	NCC, NSS, etc.	-	1	-	-	-
		TOTAL			30	21			700
V	20UEC5CC9	III	Core – IX	History of Economic Thought	6	5	25	75	100
	20UEC5CC10		Core – X	Macro Economics – I	5	5	25	75	100
	20UEC5CC11		Core – XI	International Economics – I	5	5	25	75	100
	20UEC5CC12		Core - XII	Fiscal Economics - I	5	5	25	75	100
	20UEC5DE1		DSE – I **		5	4	25	75	100
	20UEC5SE2	IV	Skill Enhancement Course II @		2	2	-	100	100
	20UEC5SE3		Skill Enhancement Course – III @		2	2	-	100	100
	20UEC5EC1		Extra Credit Course - I	General Intelligence for competitive examinations	-	4*	--	100*	100*
		TOTAL			30	28			700
VI	20UEC6CC13	III	Core– XIII	Macro Economics – II	5	5	25	75	100
	20UEC6CC14		Core– XIV	International Economics – II	5	5	25	75	100
	20UEC6CC15		Core - XV	Fiscal Economics - II	5	5	25	75	100
	20UEC6CC16		Core XVI	Economics of Growth and Development	5	5	25	75	100
	20UEC6DE2		DSE II **		5	4	25	75	100
	20UEC6DE3		DSE III **		4	4	25	75	100
	20UCN6AE3	IV	AEC-III	Gender Studies	1	1	-	100	100
	20UEC6EC2		Extra Credit Course - II	Economics for Competitive Examinations	-	4*	--	100*	100*
	20UECAECA		Extra Credit Course for all	Online Course	-	1*	--	-	-
TOTAL					30	29			700
GRAND TOTAL					180	140	-	-	4300

\* Not Considered for Grand Total and CGPA.

# Generic Electives for other major department		
Semester	Course Code	Course Title
III	20UEC3GE1	Elements of Economics
IV	20UEC4GE2	General Economics
** Discipline Specific Elective		
V	20UEC5DE1A	Entrepreneurial Development
	20UEC5DE1B	Health Economics
VI	20UEC6DE2A	Environmental Economics
	20UEC6DE2B	Banking Theory Law and Practice
VI	20UEC6DE3A	Managerial Economics
	20UEC6DE3B	Rural Economics
@ Skill Enhancement Courses		
V	20UEC5SE2A	EXIM Management
	20UEC5SE2B	Principles of Insurance
V	20UEC5SE3AP	Accounting Packages – Practical
	20UEC5SE3BP	Web Designing - Practical

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20UEC1CC1	Core – I	INDIAN ECONOMY-I	4	4	100	25	75

**Course Outcomes:**

1. Students acquire knowledge about economic growth and economic development
2. Students explain the characteristics of Indian economy
3. Students can demonstrate demographic features and population policies
4. Students analyze the unemployment status in India
5. Students can construct the development strategies towards Indian economy reforms and poverty

**UNIT: I ECONOMIC GROWTH AND ECONOMIC DEVELOPMENT      12 hours**

Meaning of Economic Growth and Economic Development – Factors Determining Economic Development – Obstacles to Economic Development – issues in Economic Development of India.

**UNIT: II OVERVIEW OF INDIAN ECONOMY      12 hours**

Characteristics of Indian Economy - Mixed Economy – Planning: General Objectives and achievements of twelfth Plan – Nithi Ayok

**UNIT: III DEMOGRAPHIC FEATURES      12 hours**

Demographic Features of India: Size and Growth Rate of Population– Sex Composition – Age Composition – Density of Population – Quality of Population Demographic Dividend– Population Policy

**UNIT IV: UNEMPLOYMENT IN INDIA      12 hours**

Nature and causes of Unemployment in India – Estimates of Unemployment in India – Various Schemes to reduce Unemployment and Under Employment – National Rural Employment Programmes – MGNREGA - Structure of Employment in India. – Quality of Employment.

**UNIT V: DEVELOPMENT STRATEGY      12 hours**

Development strategy in India - LPG model of development-Emergence of disinvestment policy-Economic Reforms in India - Globalisation and its impact on India-Economic reforms and poverty reduction in India

**TEXT BOOKS:**

1. S.Sankaran : Indian Economy

**REFERENCES:**

1. I.C. Dhingra : Indian Economy
2. Ruddar Dutt & KPM Sundaram : Indian Economy

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code		Title of the Paper			Hours		Credits		
I	20UEC1CC1		INDIAN ECONOMY-I			4		4		
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓		✓		✓	✓		✓	✓	
CO2	✓			✓	✓	✓	✓	✓	✓	
CO3		✓			✓	✓		✓	✓	✓
CO4			✓		✓	✓	✓	✓	✓	✓
CO5				✓	✓	✓		✓	✓	
Number of Matches= 31, Relationship : Moderate										

**Prepared by:**  
**Dr. K.N. Mohamed Fazil**

Checked by: Dr. J. Mohamed Zeyavudheen

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20UEC1CC2	Core – II	MICRO ECONOMIC ANALYSIS - I	4	3	100	25	75

### Course outcomes:

1. Accquire knowledge about definitions
2. Describe economic analysis and its problems
3. Demonstrate various types of utility analysis
4. Analyse the importance, interdependence & functions of micro economics
5. Validate various types of demand

### UNIT - I- Definitions of Economics

**12 hours**

Definition –Need - Wealth Definition – Criticism of wealth definition-Assessment of wealth definition-Welfare definition – Merits of Marshall’s definition-criticism- Scarcity definition –Critical appraisal of Scarcity definition of Robbins- # Growth definition by Paul Samuelsson #.

### UNIT- II- Economic Analysis

**12 hours**

Features of Economic analysis-Basic Problems of an Economy – Problem of distribution Nature of Economic Analysis: Positive or Normative Science –Methods of Economic Analysis: Deductive and Inductive Method-Static and Dynamics - # Nature of Economic Laws #.

### UNIT – III- Scope and Functions of Micro Economics

**12 hours**

Definition and scope – Importance of Micro economics- Interdependence of Micro and Macro Economics – Limitations of Micro and Macro economics (Economic paradoxes) - Market and Price Mechanism – Price Mechanism and Free Market- Functions of Price Mechanism- # Consumer’s sovereignty #.

### UNIT – IV Consumer Behaviour (Cardinal Utility)

**12 hours**

Marginal Utility Analysis (Cardinal utility)-Meaning of utility –utility and satisfaction- Measurement of utility. Cardinal, Ordinal utility –concepts of total utility and Marginal utility-The Law of Diminishing Marginal utility-illustration of the Law- Assumption of the Law- Exceptions to the Law- # The Law of Equi-Marginal Utility-illustration of the Law-Limitations #.

### UNIT-V- Cardinal Utility Analysis of Demand

**12 hours**

Meaning of demand- Demand schedules and Demand curves- Market Demand Schedule- Law of demand- Factors influencing demand –Types of demand: Price demand- Income demand- Cross Demand -Causes for sloping demand curve- # Exceptions to the Law of demand #.

**# Self study portion ..... #**

**Text book**

1. Sankaran.s Micro economics, seventh edition, margham publications, 2014
2. Cauvery and others, Sapna book house, 2018.

Unit-I	Pages: 1 to 16	T.B. 1
Unit-II	Pages: 17 to 35	T.B. 1
Unit-III	Pages: 45 to 62	T.B. 1
Unit-IV	Pages: 104 to 144	T.B. 1
Unit-V	Pages: 145 to 206	T.B. 1

**Books for References:**

1. John kennedy.M , Himalaya publishing house 2018
2. Jhinghan M.L, Vrinda publications, 8<sup>th</sup> Edition 2018.

**Web Reference :** [www. Pearsoned.co.in/dndwivedi](http://www.Pearsoned.co.in/dndwivedi)

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code		Title of the Paper			Hours		Credits		
I	20UEC1CC2		MICRO ECONOMIC ANALYSIS - I			4		3		
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓		✓		✓	✓		✓	
CO2		✓		✓	✓	✓	✓		✓	✓
CO3	✓			✓		✓	✓	✓	✓	
CO4	✓		✓			✓	✓		✓	
CO5	✓		✓	✓	✓	✓	✓		✓	✓
Number of Matches= 32, Relationship : Moderate										

**Prepared by:**  
**Dr. D. KUMAR**

**Checked by:**  
**Dr. J. MOHAMED ZEYAVUDHEEN**

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20UEC1AC1	Allied - I	ECONOMIC STATISTICS-I	4	3	100	25	75

### Course Outcomes

1. Students acquire basic Knowledge in Statistics
2. Students are able to prepare data for statistical computation by selecting the samples and relevant source of data.
3. Students will be able to compute various techniques of averages.
4. Students will be able to compute various techniques of dispersion.
5. Students will be able to compute various techniques of skewness.

### UNIT: I INTRODUCTION TO STATISTICS

**12 hours**

Meaning; Definition; Main divisions of the study of Statistics; objectives of statistics – Statistics and Economics – Importance, Limitations and Functions of Statistics

### UNIT: II COLLECTION AND PROCESSING OF DATA

**12 hours**

Census Method - Sampling methods – simple random sampling, stratified random sampling systematic and Quota sampling – standard error - Collection of data – sources of data – primary and secondary – classification and tabulation – frequency distribution – diagrammatical and graphical representation of data.

### UNIT: III MEASURES OF CENTRAL TENDENCY

**12 hours**

Need and Meaning; Objects; Characteristics of a good average; Measures of various order; Types of averages: Arithmetic Mean, Median and Mode - Merits and Drawbacks of Arithmetic Mean, Median and Mode

### UNIT: IV MEASURES OF DISPERSION

**12 hours**

Range, Inter Quartile Range, Semi-Inter Quartile Range, Quartile Deviation, Mean Deviation and Standard Deviation - #merits and demerits – Coefficient of Variation

### UNIT: V SKEWNESS

**12 hours**

Need and meaning; Tests of skewness; Measures of skewness – Karl Pearson, Bowley and #Kelly Methods.

**#Self study**

NOTE: 40% theory and 60% problems

**TEXT BOOKS:**

1. Unit: IS.P.Gupta : Statistical Methods – Chapter1
2. Unit: IIS.P.Gupta : Statistical Methods – Chapter 3,4
3. Unit: IIIS.P.Gupta : Statistical Methods – Chapter7
4. Unit: IVS.P.Gupta : Statistical Methods – Chapter8
5. Unit: IVS.P.Gupta : Statistical Methods – Chapter9

**BOOKS FOR REFERENCE:**

1. Yamane.T : Statistical Methods
2. CroxtenandCowden : Statistics
3. D.N. Elhance &Veena Elhance : Fundamentals ofStatistics
4. Sivathanupillai : Economics and BusinessStatistics

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code			Title of the Paper			Hours		Credits	
I	20UEC1AC1			ECONOMIC STATISTICS-I			4		3	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓		✓		✓	✓			
CO2	✓	✓		✓		✓	✓		✓	✓
CO3	✓	✓	✓	✓	✓		✓		✓	
CO4	✓	✓	✓	✓			✓		✓	
CO5	✓	✓	✓	✓			✓		✓	
Number of Matches= 31, Relationship : Moderate										

**Prepared by:****Checked by: Dr. A. HIDAYATHULLA****Dr. J. MOHAMED ZEYAVUDHEEN**



Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
I	20UEC1AC2	Allied - II	MARKETING	4	3	100	25	75

### **Course Outcomes:**

1. To acquire basic knowledge about marketing
2. To describe on marketing system
3. To classify the various marketing information systems and their importance.
4. To analyse the marketing and its feature.
5. To describe about the Marketing & society

### **Unit: I: Marketing:**

**12 hours**

Meaning of Marketing – Classification of Marketing – Objectives – Importance of Marketing – Modern Marketing – factors influencing marketing concept – Social Marketing in Economic Development.

### **Unit: II: Marketing System:**

**12 hours**

Marketing Mix – Concept of Marketing Mix – Marketing System – Marketing Process – Marketing functions – Buying , Assembling and selling.

### **Unit: III: Marketing Information and Research:**

**12 hours**

Marketing information – Importance of market information – Development of marketing information system- benefits of MIS - Characteristics of MIS – Marketing Research – Scope of marketing Research – Objectives of MR – Advantages of MR

### **Unit: IV: Marketing Planning**

**12 hours**

Planning – features of Planning – Marketing Planning – importance of marketing planning – Benefits of marketing Planning – Characteristics of marketing planning – Marketing planning activities.

### **Unit –V Marketing and Society:**

**12 hours**

Introduction – Social Responsibility – Marketing influences on society – Economic Aspects – Society's influence on Marketing – Social criticism of Marketing – Consumer movement.

**Text Books :**

1. R. S. N. Pillai & Bhavathi, Modern Marketing, S. Chand & Company, New Delhi.

Unit-I	Pages 1 to 19	T.B. 1
Unit-II	Pages 28 to 41	T.B. 1
Unit-III	Pages 98 to 123	T.B. 1
Unit-IV	Pages 437 to 479	T.B. 1
Unit-V	Pages 317 to 327	T.B. 1

**Referances:**

1. J. Jayasankar, Marketing, Margham Publications, Chennai.
2. S. A. Sherlekar, Principles of Marketing, Himalaya Publishing House, New Delhi.

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code		Title of the Paper			Hours		Credits		
I	20UEC1AC2		MARKETING			4		3		
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓					✓			✓	✓
CO2	✓		✓	✓		✓	✓	✓	✓	✓
CO3	✓	✓	✓	✓		✓	✓	✓	✓	✓
CO4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Matches= 41, Relationship : High										

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Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20UEC2CC3	Core - III	INDIAN ECONOMY - II	5	4	100	25	75

### **Course Outcomes:**

1. Students examine the land reforms, food security, sustainable agriculture and second green revolution
2. Students discuss about public sector enterprises and its performances
3. Students can illustrate infrastructure and economic development
4. Students can appraise the foreign trade and its composition of India's foreign trade
5. Students can debate reforms in Indian financial sector

### **UNIT: I Agricultural Sector:**

**15 hours**

Place of Agriculture in the National Economy – Land Reforms in India - Food Security in India – Policies for Sustainable Agriculture – New Agricultural Strategy - Second Green Revolution – Agricultural Marketing and Warehousing.

### **UNIT II: Industrial Sector:**

**15 hours**

Public Sector Enterprises – Performance – Causes for the Expansion of Public Sector Enterprises – Reasons for Disinvestment of Public Enterprises - critique of disinvestment policy.

### **UNIT III: Service Sector in the Indian Economy:**

**15 hours**

Infrastructure and Economic Development – Energy – Power – Transport System in India's Economic Development – Growth of Indian Railways – Road Transport System in India – Water Transport in India – Civil Aviation in India – The Communication System in India – Urban Infrastructure – Science and technology

### **UNIT – IV: Foreign Trade:**

**15 hours**

Globalization of Indian Economy –Importance of Foreign Trade – Composition of India's Foreign Trade – Direction of India's Foreign Trade – India's Foreign Trade Policy - Export and Import Policy – An Analysis of Trends in Exports and Imports of India.

### **UNIT – V: Reforms in Indian Financial System:**

**15 hours**

Financial Repression – Protectionism – Revolution of Equity Market – Entry of Private Banks – The RBI Amendment Act of 2006 – Critical financial infrastructure of bond market – Institution building of IRDA and PFRDA – Financial Innovations

### Text Books

1. Indian Economy – S. K. Misra & V. K. Puri
2. Indian Economy – Gaurav Datt & Ashwani Mahajan

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code		Title of the Paper			Hours		Credits		
II	20UEC2CC3		INDIAN ECONOMY - II			5		4		
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1		✓	✓	✓	✓	✓	✓			
CO2		✓	✓	✓	✓	✓	✓			
CO3		✓	✓	✓	✓	✓	✓	✓	✓	
CO4			✓	✓	✓	✓	✓		✓	✓
CO5	✓	✓	✓	✓	✓		✓		✓	✓
Number of Matches= 35, Relationship : High										

**Prepared by: Dr. K.N. MOHAMED FAZIL    Checked by: Dr. J. MOHAMED ZEYAUVDHEEN**

Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20UEC2CC4	Core - IV	MICRO ECONOMIC ANALYSIS - II	4	3	100	25	75

**Course outcomes:**

1. Describe elasticity of demand and supply
2. Interpret indifference curve and revealed preference theory
3. Demonstrate production laws
4. Analyse the production function and production laws
5. Assess the scale of production and its advantages and disadvantages

**UNIT: I Elasticity of Demand and Supply**

**12 hours**

Meaning and Definition of Elasticity of Demand and Inelastic Demand – Types - Price Elasticity - Measurement of Elasticity of Demand – Total Outlay or Total Expenditure Method, Point Method and Arch Method – Income Elasticity and Cross Elasticity of Demand – Meaning of Supply – Supply Schedule – Law of Supply – Supply Curve – Elasticity of Supply and its Measurements – # Consumer's Surplus #.

**UNIT: II Consumer Behaviour (Ordinal utility)**

**12 hours**

Indifference Curve Analysis- Scale of Preference – Assumptions – Indifference Schedule - Indifference Curves - Indifference Curve Map - Properties of Indifference Curve – Marginal Rate of Substitution – Budget Line and Consumer's Equilibrium – Price Line – Changes of Consumer's Equilibrium – Economic Effects on the Consumer Equilibrium – Price Effect, Income Effect and Substitute Effect - # Revealed Preference Theory#.

**UNIT: III- Theory of Production Laws**

**12 hours**

The Law of Diminishing Returns – Marshall's definition of the Law-Assumptions of the Law of Diminishing returns- Causes of diminishing returns- Law specially applies to agriculture- Law of increasing returns - illustration causes for increasing returns. Law of constant returns-The Modern Approach to the Laws of Returns – The Law of Variable Proportions – # Three Phases of the Law of variable proportion#.

**UNIT: IV- Production Function and Returns to Scale**

**12 hours**

The production function-Assumptions of production function- Returns to scale-Difference between Laws of Returns and returns to scale-Three phases of Returns scale-Increasing returns to scale-Constant returns to Scale- Decreasing returns to scale- # Optimum factor combination principle (optimum combination)#.

**UNIT – V- Scale of Production**

**12 hours**

Specialisation of Labour – Advantages-Disadvantages-Limitations-Economies of scale-Scale of production-Internal economies of large scale production-External economies – disadvantage of scale of production- limitations of Large scale production- # small scale production #.

**# Self study portion ..... #**

**Text book**

1. Sankaran. S Micro economics, seventh edition, margham publications, 2014
2. Cauvery and others, Sapna book house, 2018.

Unit-I : Pages: 125 to 144 T.B. 1

Unit-II : Pages: 207 to 241 T.B. 1

Unit-III : Pages: 291 to 305 T.B. 1

Unit-IV : Pages: 306 to 321 T.B. 1

Unit-V : Pages: 340 to 358 T.B. 1

**Books for References:**

1. John kennedy.M , Himalaya publishing house 2018
2. Jhingan M.L, Vrinda publications, 8<sup>th</sup> Edition 2018.

**Web Reference:** [www. Pearsoned.co.in/dndwivedi](http://www.Pearsoned.co.in/dndwivedi)

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code			Title of the Paper			Hours		Credits	
II	20UEC2CC4			MICRO ECONOMIC ANALYSIS - II			4		3	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
	CO1	✓			✓		✓		✓	✓
	CO2	✓		✓	✓		✓	✓	✓	✓
	CO3	✓	✓		✓		✓		✓	✓
	CO4	✓		✓	✓		✓	✓		✓
	CO5	✓	✓	✓	✓		✓		✓	✓
	Number of Matches= 43, Relationship : High									

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Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20UEC2AC3	Allied - III	ECONOMIC STATISTICS - II	4	3	100	25	75

### Course Outcomes

1. Students will be able to understand the difference between quantitative and qualitative data and use the appropriate techniques of computation.
2. Students will be able to compute the various techniques of correlation and Simple linear Regression.
3. Students are provided with the knowledge of special type of averages and enable them to compute various techniques of index number.
4. Students are taught with basics of time series and they will be able to compute the basic techniques of time series statistics.
5. Theorems of probability and types of events make the students understand the basics of Probability.

### UNIT - I ASSOCIATION OF ATTRIBUTES

**12 hours**

Association of Attributes - Difference between Actual and Observed frequencies - Proportion method - Contingency tables - Methods of studying association - Yule's Co-efficient of association - Co-efficient of Colligation.

### UNIT - II CORRELATION AND REGRESSION

**12 hours**

Scatter diagram - Karl Pearson's Co-efficient of correlation - Spearman's Rank Correlation Co-efficient - simple linear regression analysis.

### UNIT - III INDEX NUMBERS

**12 hours**

Characteristics of index numbers - uses and types# - methods of constructing index numbers: Laspeyre's, Paache's, Fisher's, Marshall - Edgeworth's, Bowley's index numbers - Factor Reversal Test and Time Reversal Test - Cost of living index number#

### UNIT - IV TIME SERIES

**12 hours**

Concept of time series - components of time series - measurement of trend - graphical method - semi-average method - method of moving averages - Least square method.

### UNIT - V PROBABILITY

**12 hours**

Definitions: Mathematical and Statistical Definitions - Equally likely cases - Mutually Exclusive events - Dependent and Independent events - addition theorem of probability- multiplication theorem of probability. (Simple problems only)

**NOTE:** 40% Theory and 60% Problems # **Self study**

**TEXT BOOKS:**

1. Unit: I S.P.Gupta : Statistical Methods – Chapter12
2. Unit: II S.P.Gupta : Statistical Methods – Chapter 10,11
3. Unit: III S.P.Gupta :Statistical Methods–Chapter13
4. Unit: IV S.P.Gupta :Statistical Methods–Chapter14
5. Unit: V S.P.Gupta :Statistical Methods–ChapterVolumeII1and2

**BOOKS FOR REFERENCE:**

1. D.N. Elhance&VeenaElhance : Fundamentals ofStatistics
2. Sivathanupillai : Economics and BusinessStatistics
3. Yamane.T : StatisticalMethods
4. Croxten&Cowden : Statistics

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code		Title of the Paper				Hours		Credits	
II	20UEC2AC3		ECONOMIC STATISTICS - II				4		3	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
	CO1	✓	✓	✓	✓		✓		✓	✓
	CO2	✓	✓	✓	✓	✓	✓		✓	✓
	CO3	✓	✓	✓	✓		✓		✓	✓
	CO4	✓	✓	✓	✓	✓	✓		✓	✓
	CO5	✓	✓	✓	✓		✓		✓	✓
Number of Matches= 43, Relationship : High										

Prepared by:

Checked by: Dr. A. HIDAYATHULLA

Dr.J. MOHAMED ZEYAVUDHEEN



Semester	Code	Course	Title of the Course	Hours	Credits	Max. marks	Internal marks	External marks
II	20UEC2AC4P	Allied - IV	COMPUTER APPLICATIONS IN ECONOMICS - PRACTICAL	3	2	100	25	75

### Course Outcomes:

1. Acquire the awareness on the usage of Word.
2. Recognize the familiar concepts of Power point.
3. Make skill in data processing and calculating using Excel.
4. Create ability to handling the statistical tools using SPSS.
5. Demonstrate the use of SPSS in macro economic variables.

### UNIT: I MS OFFICE WORD

**9 hours**

Introduction to word - Formatting text and documents - Working with header and footers, foot notes – Tabs - Tables and Sorting - Menus - Mail Merge.

Exercise:

1. Preparation of bio-data.
2. Formatting Documents for newspaper (model).
3. Mail Merge.
4. # Creation of mathematical and Statistical formulae using Formula Editor.#

### UNIT: II MS OFFICE POWER POINT

**9 hours**

Power Point basics - editing text - Deleting slides - Working in outlines view - Using Design Templates - Adding Graphics - Adding organization Charts - Running Slide Show - Adding Special Effects.

Exercise:

1. Preparation of Power Point Slide with the subject matter of Economics.
2. Preparation of chart and table using animation scheme.
3. Preparation of union budget Power Point Slides.

### UNIT: III MS OFFICE EXCEL

**9 hours**

Introduction to Excel - Rearranging worksheets - Formatting work sheets - Functions Excel chart Features - Working with Functions-Statistical - Math-Financial functions.

Exercise:

1. Calculation of mean, median, mode and standard deviation.
2. Insertion of the line, pie, bar, column and scatter charts.

3. Calculation of Correlation.
4. Compute the India's trade difference.

#### **UNIT- IV INTRODUCTION TO SPSS**

**9 hours**

Defining variable - data base creation - calculation of descriptive statistics, correlation and regression – graphs, scatter charts using SPSS.

Exercise:

1. Data Base Creation.
2. Calculation of Descriptive Statistics.
3. Calculation of Correlation.
4. Calculation of Regression.
5. #Graphs and Scatter plots using SPSS. #

#### **UNIT – V APPLICATION IN ECONOMICS**

**9 hours**

Calculation of GDP, BOP components, average of decadal growth rates of domestic products of the Indian states, Compute relationship between India's macroeconomic aggregates.

Exercise :

1. Average of decadal growth rates, minimum and maximum values of domestic Products of the Indian states.
2. #Calculation of sums of GDP components. #
3. Calculation of median, mode and standard deviation of domestic products of the Indian states.
4. Calculation of Correlation between India's public income, expenditure and debt.
6. Calculation of Regression between BOP components.

#### **# Self Study**

#### **BOOKS:**

1. S.V. Srinivasa Vallabhan : Computer Applications in Business
2. K.Dhanasekaran : Computer Applications in Economics

Unit – I : Text book -1 Lesson : 3

Unit – II : Text book - 1 Lesson : 6

Unit – III: Text book - 1 Lesson : 4

Unit – IV: Text book - 2 Chapter: 2,3,5,6

Unit – V : Text book - 2 Chapter: 3,5,6

#### **BOOKS FOR REFERENCE:**

1. Stephen W.Sagman & Gail Tailor : MS Office for Windows
2. Sarah E. Boslaugh : An Intermediate Guide to SPSS programming
3. Leon and Leon : MS Office XP

Relationship Matrix for Course Outcomes, Programme Outcomes and Programme Specific Outcomes:

Semester	Code			Title of the Paper			Hours		Credits	
II	20UEC2AC4P			COMPUTER APPLICATIONS IN ECONOMICS - PRACTICAL			3		2	
Course Outcomes (COs)	Programme Outcomes (POs)					Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	✓	✓	✓				✓			
CO2	✓	✓	✓				✓			
CO3	✓	✓	✓				✓	✓	✓	
CO4	✓	✓	✓	✓		✓	✓	✓	✓	✓
CO5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Matches= 33, Relationship : High										

**Prepared by: Dr. B. MOHAMED RAFEEQ    Checked by: Dr.J. MOHAMED ZEYAVUDHEEN**