APPENDIX–N

MADURAI KAMARAJ UNIVERSITY

(University with Potential for excellence)

Revised Syllabus for

B.A. ECONOMICS (SEMESTER)

CHOICE BASED CREDIT SYSTEM

REGULATIONS AND SYLLABUS

(This will come into effect from the academic year 2023-2024 onwards)

1. Introduction of the Programme

The Bachelor degree in Economics is an important step for those people who wish to learn more about Economics. In fact, this is one amongst the most demanding graduate level course throughout India. The main reason for this demand is the importance it exerts into the business world. Many employment opportunities are available for aspirants who have accomplished their education in the graduate level in Economics. It is to be said that many top organizationsprefertotakeaspirantsofBAeconomics.Besidesbrightjob prospectsin India,job opportunities are available for them with foreign firms as well.

2. Eligibility for Admission

Candidate who have got through their Higher Secondary Examination conducted by the Board of Higher Secondary Examination, Government of Tamil Nadu or any other equivalent Boards of Examinations which, are accepted by the syndicate as equivalent are eligible to this course. All otherthings being equal, preferenceshould begivento the students whohavestudied Economics at the Higher Secondary level.

DurationoftheProgramme:3Years

Medium of Instructions: English

3. Objectives of the Programme

The economics major helps prepare the students for jobs in business, government, education, and the non-profit organisations. By studying economics, the students will be able to develop the analytical skills needed to work successfully in the field, including the study of logical analysis.

Economics includes the study of Microeconomics; Macroeconomics, Statistics, Mathematical Methods, Monetary Economics, International Economics, Fiscal Economics, Development and Planning, etc.as the core subjects and papers like Tourism, Advertisement, Marketing, Computer Applications and Business Correspondence as technical papers. The core papers provide the students with in-depth subject knowledge while the technical papers enhance the skill of the students. Thus, Economics is being one of the fastest growing majors in the country. With the world continually focused on business, it takes economists to help decipher trends and to help make good financial decisions.

CHOICEBASEDCREDITSYSTEMANDLEARNINGOUTCOMES-BASED CURRICULUM FRAMEWORK BASEDB.A. ECONOMICS SYLLABUS	
Programme:	**B.A. Economics**
Programme Code:	
Duration:	**3 Years(UG)**
Programme Outcomes:	**PO1: Knowledge of Economics:** Abilityto understand EconomicTheories and functioning of Economic Models. To develop an adequate competency in the Economic Theory and Methods. **PO2: Analytical Reasoning and Critical Thinking:** Critically Analyze and assess the way in which economists examine the real world to understand the current events and evaluate specific proposals. **PO3: Logical Reasoning and Quantitative Ability:** Ability to understand how to collect and analyse data and use empirical evidence to evaluate the validity of hypothesis, using Quantitative Methodology and conduct data analysis to interpret results. **PO4: Communication and Research Skills:** Communication andResearch related skills. Developing a sense of capability for relevant/appropriate inquiry and asking questions, synthesising and articulating and reporting results and to efficiently communicate thoughts and ideas in a clear and concise manner. **PO5: Gender, Environment and Sustainability:** Comprehend the Environmental issues and Sustainable Development and strive to achieving economic and social equity for women and be Gender Sensitive. **PO6: Employability and Leadership Skills:** Become empowered individuals to be employed in various positions in industry, academia and research and have the potential to become Entrepreneurs and takeleadership roles in their chosen occupations and communities. **PO7**: **Social Interaction**: Acquire the ability to engage in relevant conversations and have the ability to understand the views of society that would help initiate policy making. **PO8:**Digital LiteracyandLifelongLearning:Capabilitytouse ICTtoolsin avarietyoflearningsituationanduseappropriatesoftwareforanalysisof data **-** Ability to acquire Knowledge situations and skills for life throughself directed learning and adapt to different learning environments.
ProgrammeSpecific Outcomes:	**PSO1**: To enable students to apply basic microeconomic, macroeconomic and monetary concepts and theories in real life and decision making. **PSO 2**: To sensitize students to various economic issues related to Development, Growth, International Economics, Sustainable Development and Environment. **PSO 3**: To familiarize students to the concepts and theories related to Finance, Investments and Modern Marketing. **PSO 4**: Evaluate various social and economic problems in the society and develop answer to the problems as global citizens. **PSO 5:** Enhance skills of analytical and critical thinking to analyze effectiveness of economic policies.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
PSO1	Y	Y	Y	Y	Y	Y	Y	Y
PSO2	Y	Y	Y	Y	Y	Y	Y	Y
PSO3	Y	Y	Y	Y	Y	Y	Y	Y
PSO4	Y	Y	Y	Y	Y	Y	Y	Y
PSO5	Y	Y	Y	Y	Y	Y	Y	Y

3–Strong,2-Medium,1-Low

Credit Distribution for UG Programme

Sem I	Credit	Sem II	Credit	Sem III	Credit	Sem IV	Credit	Sem V	Credit	Sem VI	Credit
1.1. Language-Tamil	3	2.1. Language -Tamil	3	3.1. Language-Tamil	3	4.1. Language-Tamil	3	5.1 Core Course – CCIX	4	6.1Core Course – CCXIII	4
1.2 English	3	2.2 English	3	3.2 English	3	4.2 English	3	5.2 Core Course – CCX	4	6.2Core Course– CC XIV	4
1.3Core Course– CC I	5	2.3Core Course– CC III	5	3.3Core Course– CC V	5	4.3Core Course– CC VII Core Industry Module	5	5. 3.Core Course CC-XI	4	6.3Core Course– CC XV	4
1.4Core Course– CC II	5	2.4Core Course– CC IV	5	3.4Core Course– CC VI	5	4.4Core Course– CCVIII	5	5. 3.Core Course –/ Project with viva-voce CC-XII	4	6.4 Elective -VII Generic/ Discipline Specific	3

1.5 Elective I Generic/ Discipline Specific	3	2.5 Elective II Generic / Discipline Specific	3	3.5 Elective III Generic/ Discipline Specific	3	4.5 Elective IV Generic / Discipline Specific	3	5.4 Elective V Generic/ Discipline Specific	3	6.5 Elective VIII Generic/ Discipline Specific	3
1.6Skill Enhancement Course (SEC-1)	2	2.6Skill Enhancement Course (SEC-3)	2	3.6 Skill Enhancement Course (SEC-5), (Entrepreneurial Skill)	1	4.6Skill Enhancement Course (SEC-7)	2	5.5 Elective VI Generic/ Discipline Specific	3	6.6 Professional Competency Skill Enhancement Course (SEC -9)	2
1.7 Skill Enhancement - (Foundation Course) (SEC – 2)	2	2.7 Skill Enhancement Course– (SEC- 4)	2	3.7 Skill Enhancement Course (SEC-6)	2	4.7Skill Enhancement Course (SEC-8)	2	5.6 Value Education	2	6.7 Extension Activity	1
						4.8 E.V.S	2	5.5 Summer Internship /Industrial Training	2		
	23		**23**		**22**		**25**		**26**		**21**
	Total Credit Points										**140**

CREDITDISTRIBUTIONFORB.A.ECONOMICS

3–YearUGProgrammein Economics (B.A Economics) Credits Distribution			
		No. of Papers	**Credits**
Part I	Tamil (3Credits)	4	12
Part II	English (3Credits)	4	12
Part III	Core Courses (4Credits)	15	68
	Elective Courses :Generic / Discipline Specific (3Credits)	8	24
		Total	**116**
Part IV	Skill Enhancement Courses (9 courses) Summer Internship	**9** 1	17 2
	EVS (2 Credits)	1	2
	Value Education (2 Credits)	1	2
		Part IV Credits	**23**
Part V	Extension Activity (NSS/NCC/Physical Education)		1
Total Credits for the UG Programme in Economics			**140**

Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	2	23
Part V	-	-	-	-	-	1	1
Total	23	23	22	25	26	21	**140**

***Part I. II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree**

<table>
<tr><th colspan="3">Methods of Evaluation</th></tr>
<tr><td rowspan="4">Internal Evaluation</td><td>Continuous Internal Assessment Test</td><td rowspan="4">25 Marks</td></tr>
<tr><td>Assignments</td></tr>
<tr><td>Seminars</td></tr>
<tr><td>Attendance and Class Participation</td></tr>
<tr><td>External Evaluation</td><td>End Semester Examination</td><td>75 Marks</td></tr>
<tr><td></td><td>Total</td><td>100 Marks</td></tr>
<tr><th colspan="3">Methods of Assessment</th></tr>
<tr><td>Recall(K1)</td><td colspan="2">Simple definitions, MCQ, Recall steps, Concept definitions</td></tr>
<tr><td>Understand/Comprehend(K2)</td><td colspan="2">MCQ, True/False, Short essays, Concept explanations, Short summary or overview</td></tr>
<tr><td>Application(K3)</td><td colspan="2">Suggest idea /concept with examples, Suggest formulae, Solve problems, Observe, Explain</td></tr>
<tr><td>Analyze(K4)</td><td colspan="2">Problem-solving questions, Finish a procedure in many steps, Differentiate</td></tr>
<tr><td></td><td colspan="2">Between various ideas, Mapknowledge</td></tr>
<tr><td>Evaluate(K5)</td><td colspan="2">Longer essay/Evaluation essay, Critique or justify with prosandcons</td></tr>
<tr><td>Create(K6)</td><td colspan="2">Check knowledge in specific or offbeat situations, Discussion, Debatingor Presentations</td></tr>
</table>

B.A.,ECONOMICS CREDIT DISTRIBUTION

First Year–Semester–I			
Part	**List of courses**	**Credits**	**No.of Hrs**
Part I	Language–Tamil	3	6
Part II	English	3	6
Part-III	**Core Course-I** Microeconomics - I	5	5
	Core Course–II Statistics for Economics-I	5	5
	Generic Elective I 1. Fundamentals of Management (**OR**) 2. Introduction to Sociology	3	4
Part-IV	**Skill Enhancement Course SEC-I** (NME)-Demography	2	2
	Skill Enhancement Foundation Course-Business Communication	2	2
TOTAL		**23**	**30**

First Year–Semester–II			
Part	**List of courses**	**Credits**	**No. of Hrs**
Part I	Language–Tamil	3	6
Part II	English	3	6
Part III	**Core Course III** -Microeconomics-II	5	5
	Core Course IV -Statistics for Economics-II	5	5
	Generic Elective II 1. History of Economic Thought **(OR)** 2. Introduction to E-Commerce	3	4

Part IV	**Skill Enhancement Course SEC2** (NME)- Economics for Investors	2	2
	Skill Enhancement Course SEC-3 - Computer Application in Economics	2	2
TOTAL		**23**	**30**

Second Year–Semester–III			
Part	**List of Courses**	**Credits**	**No. of Hrs**
Part I	Language–Tamil	3	6
Part II	English	3	6
	Core Course–V Macroeconomics-I	5	5
	Core Course–VI Mathematics for Economics	5	5
Part III	**Generic Elective III** 1. Principles of Marketing**(OR)** 2. Economics of Tourism	3	4
Part IV	**Skill Enhancement Course SEC 4** Entrepreneurial Economics	1	2
	Skill Enhancement Course SEC 5 Event Management (Entrepreneurial Skills)	2	2
TOTAL		**23**	**30**

Second Year–Semester – IV			
Part	**List of Courses**	**Credits**	**No. of Hrs**
Part I	Language–Tamil	3	6
Part II	English	3	6
Part III	**Core Course–VII** Macroeconomics-II	5	5
	Core Course–VIII Indian Economy	5	5
	Generic Elective IV 1. Research Methods in Economics **(OR)** 2. Health Economics	3	4
Part IV	**Skill Enhancement Course SEC6** Basic Accountancy	2	2
	Skill Enhancement Course SEC7 Modern Banking and Insurance	2	2
	Ability Enhancement Compulsory Course (AECC) -Soft Skill 4	2	2
	EVS	2	2
TOTAL		**25**	**32**

<table>
<tr><th colspan="4">Third Year–Semester– V</th></tr>
<tr><th>Part</th><th>List of Courses</th><th>Credits</th><th>No. of Hours</th></tr>
<tr><td rowspan="6">Part III</td><td>Core Course IX Monetary Economics</td><td>4</td><td>5</td></tr>
<tr><td>Core Course X Fiscal Economics</td><td>4</td><td>5</td></tr>
<tr><td>Core Course XI Industrial Economics</td><td>4</td><td>5</td></tr>
<tr><td>Core Course / Project with Viva Voce CC- XII
1. Environmental Economics(OR)
2. Project (Individual)</td><td>4</td><td>5</td></tr>
<tr><td>Discipline Specific Elective-V
1. Tamil Nadu Economy(OR)
2. Managerial Economics</td><td>3</td><td>5</td></tr>
<tr><td>Discipline Specific Elective-VI
1. Operations Research(OR)
2. Gender Economics</td><td>3</td><td>5</td></tr>
<tr><td rowspan="2">Part IV</td><td>Value Education</td><td>2</td><td>2</td></tr>
<tr><td>Summer Internship/Industrial Training</td><td>2</td><td>-</td></tr>
<tr><td>TOTAL</td><td></td><td>26</td><td>30</td></tr>
<tr><th colspan="4">Third Year–Semester– VI</th></tr>
<tr><td colspan="4"></td></tr>
<tr><th>Part</th><th>List of Courses</th><th>Credits</th><th>No. of Hrs</th></tr>
<tr><td rowspan="4">Part III</td><td>Core Course XIII International Economics</td><td>4</td><td>6</td></tr>
<tr><td>Core Course XIV Development Economics</td><td>4</td><td>6</td></tr>
<tr><td>Core Course XV Agricultural Economics</td><td>4</td><td>6</td></tr>
<tr><td>Discipline Specific Elective -VII
1. Basic Econometrics(OR)
2.Behavioural Economics</td><td>3</td><td>5</td></tr>
</table>

	Discipline Specific Elective-VIII 1. Financial Markets and Institutions**(OR)** 2. Urban Economics	3	5
Part IV	**Professional Competency Skill** General Studies for Competitive Examinations	2	2
Part V	Extension Activity	1	**-**
TOTAL		**21**	**30**

TOTALCREDITS: 23+23 +22+25+26+21 =140 Credits

FIRSTYEAR–SEMESTER-I

Subject Code	Subject Name	Category	L	T	P	S	Credits	Inst.	Marks		
									CIA	Exter	Total
	MICROECONOMICS-I	**Core -I**					4	5	25	75	100

	Learning Objectives	
C1	To Equip the economic behaviours of individual units of the society.	
C2	To describes the consumer behavior and utility analysis	
C3	To impart knowledge on demand and supply concepts	
C4	To identify the relevance of Production and returns to scale of Production	
C5	To know the costs and profit maximisation	
UNIT	**Contents**	**No. of Hours**
I	**Basic Concepts** Definitions of Economics– Nature and Scope of Microeconomics – Positive and Normative Approaches- Inductive and Deductive Approaches - Consumers and Firms –Decision Making–Rationality: Self-Interest – Trade-offs –Fundamental Economic Problems -Market Mechanism and Resource Allocation.	15

II	**UtilityAnalysis** Utility–OrdinalandCardinalUtility–TotalandMarginalUtility–LawofDiminishingMarginalUtility-LawofEqui-Marginal Utility-Indifference Curves–Properties–Marginal Rate of Substitution- Budget Line – Price and Substitution Effects-Optimal ConsumerChoice – Revealed Preference Theory – Samuelson and Hicks‘ Approach	18
III	**DemandandSupplyAnalysis** Demand – Types of Goods -Law of Demand – Determinants – Exceptions – Giffen Paradox – Veblen Effect- Elasticity of Demand: Types - Engel‘s Law -Supply – Law of Supply –Determinants – Elasticityof Supplyand itsTypes-MarketEquilibrium-Consumer SurplusandProducerSurplus	15
IV	**ProductionAnalysis** Production Function– Law of Variable Proportions- Laws of Returns to Scale-Iso-quant‘s-Types of Production Function – Cobb -Douglas and ConstantElasticityofSubstitution(CES)ProductionFunction–EconomiesandDiseconomiesofScale	15
V	**CostandRevenueConcepts** Costs – Fixed and Variable Costs - Average, Marginal, and Total Costs – Short Run and Long Run Costs – Implicit, Explicit, Sunk andImputedCost–Revenue–Total,AverageandMarginal Revenue –Relationship between AR, MR and Elasticity of Demand-Profit Maximization Rule.	12
	Total	**75**

Course Outcomes		**Programme Outcomes**
CO	Oncompletionofthiscourse,studentswill	
1.	Understandthemeaningofbasic conceptsandtheneedforthe studyofMicroeconomics.	PO1,PO2
2.	Evaluatethe Types ofUtilityand Consumer Behaviour.	PO2,PO3
3.	Acquireknowledgeonvarious marketequilibrium, Demand and SupplyFunctions	PO1,PO2
4.	Tounderstandthe meaningof Production Functions	PO1
5.	Tounderstand the theoryoffirms, Costand Revenue	PO1

Textbooks	
1.	RobertPindyckandDanielL.Rubinfield,(2001)MicroEconomics, Macmillan
2.	HalR.Varian (2004), IntermediateMicroEconomics(East-WestPress:New Delhi)
3.	PaulKrugmanandRobinWells,MicroEconomics,WorthPublishers,2020.

4.	AhujaH.L(2016)Principles ofMicroeconomics, S.Chand
5.	TimothyTaylor,StevenAGreenlawand DavidShapiro(2017)Principlesof Economics,12th Media Services.
ReferenceBooks	
1.	Koutsoyiannis(2003),ModernMicroeconomicsPalgraveMacmillan (UK)2nd Edition.
2.	GregoryMankiw(2012),PrinciplesofMicroeconomicsCengage India**.**
3.	Dwivedi, D.N(2002), Microeconomics: TheoryandApplications, 2nd ed., Pearson
4.	FergusonC.E.(1970),MicroEconomicTheory,(Homewood,U.S.A)
5.	KarlE.CaseandRayCFair(2007),Principlesof Economics,Pearson Prentice HallIncSingaporeSouth Asia
WebResources	
1.	http://www.econlib.org/library/enc/microeconomics.html
2.	https://www.tutor2u.net/economics
3.	https://www.economicsnetwork.ac.uk/
4.	https://www.cliffsnotes.com/study-guides/economics/introduction/microeconomics
5.	http://neconomides.stern.nyu.edu/networks/micnotes/micnotes.pdf

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	2	2	2	2	2	3	2	3
Weightage	14	14	14	14	13	15	13	15
Weighted percentage ofcoursecontribution to POS	2.8	2.8	2.8	2.8	2.6	3.00	2.6	3.00

S-Strong-3M-Medium-2 L-Low-1

LevelofCorrelationbetweenPSO'sandCO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	2	2	2
CO3	3	3	3	3	3
CO4	3	3	3	2	2
CO5	3	3	3	2	2
Weightage	15	15	14	11	11
Weightedpercentageof CourseContribution to PSOs	3	3	2.8	2.2	2.2

FIRSTYEAR–SEMESTER-I

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	Externa	Total
	STATISTICSFOR ECONOMICS –I	Core-II					4	5	25	75	100

	LearningObjectives
C1	Toknowthenature and scopeof statisticsandits applications
C2	ToteachstudentsCollection,Classification,AnalyzingandPresentationof data.
C3	Toapplythe measuresof central tendency
C4	Todrawmeasurementofdispersionandits applications
C5	Toanalysecorrelationandregressionanditsapplications

UNIT	Contents	No.of Hours
I	**IntroductionandCollectionof Data** Introduction – Nature and Scope of Statistics – Uses and Limitations of Statistics – Data Collection – Primary and Secondary Data –Tools for collectingPrimaryData–RequisitesofGoodQuestionnaire–Sourcesof SecondaryData.	15
II	**ClassificationandPresentationofData** Classification and Tabulation of Data– Types - Frequency Distribution — Cumulative Frequency Distribution- Class Interval – Diagrams – Types- GraphicalRepresentation–Histogram–FrequencyPolygon-OgiveCurve -Lorenz Curve.	15
III	**MeasuresofCentral Tendency** Measures of Central Tendency- Requisites of a Good Average – Arithmetic Mean, Median, and Mode – Relative Merits and Demerits.	15
IV	**MeasuresofDispersion** AbsoluteandRelativeMeasuresofDispersion–Range–Quartile	15

	Deviation–MeanDeviation–StandardDeviation–Variance-Coefficient ofVariation–-Skewness andKurtosis.	
V	**Correlationand Regression** Correlation–TypesofCorrelation–Methods-KarlPearson‘sCo-efficient of Correlation –- Spearman‘s Rank Correlation – Regression Equations – Distinction between Correlation and Regression Analysis.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Understandtheoverviewofstatisticsandbasicknowledgeof statistical tools.	PO1, PO3,PO8
2	DifferentiateTypesofDataanditsClassification	PO1,PO2, PO3,PO8
3	ExplaintheconceptofAveragesanditsapplication	PO1, PO2,PO3
4	Knowthe conceptof Dispersionand its application	PO1, PO2,PO3
5	CalculateCorrelationandestimatevaluesusingRegression	PO3,PO7,PO8

Textbooks	
1	Gupta.S.P(2005)StatisticalMethods,SultanChandandSons,NewDelhi.
2	Sancheti.D.CandKapoorV.K(2005)StatisticalTheoryMethodand Application, SultanChandandSons,NewDelhi.
3	Dr.T.K.V.Iyengar,Dr.B.KrishnaGandhiS.Ranganantham,Dr.M.V.S.S.NPrasad, Probabilityand Statistics, S.Chandand Co, 2020.
4	ProfS.G.VekatachalapathyandDr.H.Premraj(2018)StatisticalMethodsMargham Publications.
5	DominickSalvatoreandDerrick Reagle,theoryandproblems of statisticsandeconometrics,McGraw Hill,(2002)

ReferenceBooks	
1.	SaxenaH.C , (2016)ElementaryStatistics, S Chand and CompanyNew Delhi.
2.	ElhanceD.N,(2004),FundamentalsofStatisticsKitab Mahal,NewDelhi
3.	ManoharanM(2010),―StatisticalMethods‖,PalaniParamountPublications,Palani.
4.	R.S.N.PillaiandV.Bagavathi(2010),Statistics,SultanChandandSons,NewDelhi
5.	Dr.S.Sachdeva(2014)Statistics-LakshmiNarain Agarwal.

WebResources	
1.	https://www.cuemath.com/data/statistics/
2.	https://stattrek.com/statistics/resources
3.	https://testbook.com/learn/maths-mean-median-mode/
4.	https://www.statistics.com/
5.	https://thisisstatistics.org/students/

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	3	2	2	2	3	3	3	3
Weightage	15	14	14	14	14	15	14	15
Weightedpercentage of course contribution to POS	3.00	2.8	2.8	2.8	2.8	3.00	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sandCO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weightedpercentageof CourseContributionto PSOs	3	3	3	3	3

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR–SEMESTER-I

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	Fundamentalsof Management	**Generic Elective-I**					3	4	25	75	100

	LearningObjectives
C1	Toprovide studentswith thebasicconceptsofManagement.
C2	Toprobethe planningconcepts and itsobjectives
C3	ToanalyzetheOrganizationalLevelsinanOrganization
C4	Todescribesthemotivation andsatisfactionandits elements
C5	ToknowtheimportanceofQualityChecks.

UNIT	Contents	No.of Hours
I	**Introduction** Management –Definition-scope–SchoolsofThoughtinManagement-Levelsof Management-Role and Functions of a Manager	15
II	**Planning** Planning:Concept,Objectives,Nature,Limitation,Processofplanning,Importance, Forms, Techniques and Process of decision making.	15
III	**Organisational Levels** Types of Business Organizations – Structure- Span of Control – Departmentalisation-Selection, Training and Development, Performance Management, Career Planning ,and Management	15
IV	**Directing** CreativityandInnovation–MotivationandSatisfaction–OrganizationCulture – Elements and Types of Culture – Managing Cultural Diversity.	15
V	**Controlling** Process of Controlling – Types of Control – Budgetary and non-budgetary, Control Techniques – Managing Productivity – Cost Control – Purchase Control –Maintenance Control – Quality Control – Planning Operations.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandthefoundationsandimportanceofManagement.	PO1
2	DemonstrateanunderstandingofPlanning	PO2,PO3
3	AnalyzetheorganisationallevelsandProcessofselection	PO1,PO2,PO3
4	Discusstherelevanceof OrganizationalCulture	PO1,PO2,
5	Examinethe importanceof qualitycontrol	PO4

Textbooks	
1.	StephenA.Robbins&DavidA.Decenzo&MaryCoulter,(2011)―Fundamentalsof Management‖7thEdition,PearsonEducation
2.	TripathyPC&ReddyPN,(1999)―PrinciplesofManagement‖,TataMcGrawHill.
3.	PillaiR.S.NandKala.S(2013)PrinciplesAndPracticeOfManagementS.Chand& Co andCompany.
4.	RickyGriffin,―FundamentalsofManagement‖,CengageLearning,(2016)
5.	PardeepKumarandAmanjotSachdeva,―FundamentalsofManagement‖,S.Chand Publishing, (2012)
ReferenceBooks	
1.	Dr.C.B.Guptaand Dr.ShrutiMathur(2022)Management Principles andApplications,ScholarTechPress
2.	NeeruVasisthandVibhutiVasishth(2019)PrinciplesofManagementText& Cases,TaxmanPublication
3	R.CBhatiya,―FundamentalsofManagement‖,S.KKataria&Sons,2013
4	L.MPrasad,―PrinciplesandPracticeofManagement,2021
5	Dr.N.MishraandDr.O.P.Gupta,―FundamentalsofManagement‖,SBPDPublishing House,2022
WebResources	
1.	http://www.mim.ac.mw/books/Fundamentals%20of%20Management.pdf
2.	https://theintactone.com/2019/09/18/fom-u1-topic-1-fundamentals-of-management-introduction-and-concepts/
3.	https://rccmindore.com/wp-content/uploads/2015/06/Fundamentals-of-Management.pdf
4.	https://in.sagepub.com/en-in/sas/journal-of-management/journal201724
5.	https://www.managementstudyhq.com/evolution-management-thought-theories.html

`

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	3	2	3	2	3	2	3	3
Weightage	15	14	15	14	14	14	15	15
Weightedpercentageof course contribution to POS	3.0	2.8	3.0	2.8	2.8	2.8	3.0	3.00

S-Strong-3 M-Medium-2 L-Low-1

LevelofCorrelationbetweenPSO'sandCO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	3
CO3	3	3	3	2	3
CO4	3	3	2	2	2
CO5	3	3	3	3	3
Weightage	15	15	14	11	13
Weightedpercentageof CourseContributionto PSOs	3	3	2.8	2.2	2.6

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR–SEMESTER-I

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	INTRODUCTIONTO SOCIOLOGY	**Generic Elective-I**					3	4	25	75	100

LearningObjectives	
C1	Tounderstand the nature and scopeof sociologyand its development
C2	Toidentifythe originand developmentof sociologyand its basicconcepts
C3	Toevaluatestagesandagenciesofsocialization
C4	Tounderstandsocialstratificationanditsdeterminants
C5	Toknowthesocial change,evolutionand revolution

UNIT	Contents	No. of Hours
I	**Introduction** Definition – Nature and Scope of Sociology –Origins and development of Sociology – Founding fathers and their contributions: Auguste Comte, HerbertSpencer,KarlMarx,EmileDurkheimandMaxWeber–Sociology and other social sciences	15
II	**BasicConceptsofSociology** Society, Community, Institutions, Association, Social Structure, Status – Role,Norms,andValues;FolkwaysandMores,AssociativeandDissociative processes – Cooperation- Assimilation-Accommodation- Competition and Conflict	15
III	**Individualand Society** Individual and Society- Socialization- Stages and Agencies of Socialization- Types of Groups – Primaryand SecondaryGroups, In-Group and Out-group, Reference Group.	15
IV	**SocialStratification** Social Stratification: Meaning, Definition and Dimensions –Social mobility and its determinants.	15
V	**SocialChange** MeaningandTypes:EvolutionandRevolution,ProgressandDevelopment —FactorsofSocialChange-CultureandCivilization	15
	Total	**75**

CourseOutcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	Understandthecontributionsofsociologistsinthe fieldofsociology	PO1,PO2
2	UnderstandthebasicaspectsofSociology	PO1,PO2
3	Examinetheimpactofindividuals,groups and society	PO1, PO5,PO7
4	Understandthedimensions ofsocial stratification	PO2,PO7
5	AnalyzeanddesignPolicyforsocialchange	PO2,PO3,PO7
Textbooks		
1	Bottomore,T.B.(1972). Sociology: Aguidetoproblemsandliterature. Bombay.	
2	Jayaram,N. (1988).Introductorysociology.Madras:MacmillanIndia.	
3	SachdevaVidya Bhushan D.R(2020)AnIntroductiontoSociology,Kitab Mahal	
4.	John.J.Macionis, ―Sociology‖, Pearson, 17th edition, 2018	
5.	C.NShankarRao,―Sociology:PrinciplesofSociologywithanIntroductionto SociologyThought‖,S.ChandPublication,2019	
ReferenceBooks		
1.	GeorgeAllenandUnwin(India).Harlambos,M.(1998).Sociology:Themesand perspectives. NewDelhi:OxfordUniversityPress.	
2.	Inkeles,Alex.(1987).Whatissociology?NewDelhi:Prentice-HallofIndia.	
3.	Johnson,HarryM.(1995).Sociology:Asystematicintroduction.NewDelhi:Allied Publishers.	
4.	Bhende,A.andT.R.Kanitkar(1982),PrinciplesofPopulationStudies, Himalaya PublishingHouse,Bombay.	
5.	Bogue,D.J.(1969),PrinciplesofDemography,JohnWiley, NewYork	
WebResources		
1.	https://data.worldbank.org/indicator/SP.POP.TOTL	
2.	https://www.iom.int/	
3.	https:/libguides.humdolt.edu	
4.	https://openstax.org/books/introduction-sociology-3e/	
5.	https://www.sociologygroup.com/important-books-free-notes-sociology-optional/	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	2	3	3	2	3	2	3	3
Weightage	14	14	14	14	14	15	14	15
Weighted percentage of course contributionto POS	2.8	3.00	3.00	2.8	2.8	2.8	2.8	3.00

S-Strong-3M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	3	2
CO3	2	3	3	3	2
CO4	3	3	2	3	3
CO5	3	3	3	3	2
Weightage	15	15	14	15	11
Weightedpercentageof CourseContributionto PSOs	3	3	2.8	3	2.2

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR–SEMESTER-I

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	DEMOGRAPHY	**SEC-I**					2	75	25	75	100

	LearningObjectives	
C1	Tounderstand themeaningandscopeof demography	
C2	Todiscussthebasicconceptsofdemographicmeasurements.	
C3	Todescribesthe conceptsofurbanisationandmigration	
C4	Toevaluatethe internationalaspects ofpopulationgrowth andtis environment	
C5	Toanalysethe trends inpopulation policyinIndia	
UNIT	**Contents**	**No. of Hours**
I	**Introduction** Meaning Scope of Demography – Components of Population Growth – Theories of Population: Malthusian Theory, Optimum Theory and Theory of Demographic Transition.	15
II	**BirthRate,DeathRate andFertility** Census Data - Life Tables: Meaning and Uses – Reproductive and Child Health in India – Temporal and Spatial Variation in Sex Ratios – Crude BirthandDeathRate-AgeSpecificBirthandDeathRates–Standardized Birth and Death Rates –Fertility – Total Fertility Rate – Gross Reproduction Rate – Net Reproduction Rate	16
III	**MigrationandUrbanisation** Migrationand Urbanisation– Concept - Typesof Migration- Effects of Migration and Urbanisation on Population—Recent Trends in Migration.	14
IV	**PopulationTrends** PopulationTrends–InternationalAspectsofPopulationGrowthand Distribution–PopulationandEnvironmentPatternofAgeandSex StructureinDevelopedandDevelopingCountries–AgePyramidsand Projections.	15
V	**PopulationPolicyinIndia** Population Policy in India and its Evaluation – Population and Strategies forHumanDevelopment ofDifferent SocialGroups –National Population Commission – Demographic Dividend – National Youth Policy.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Describethevarious theoriesofPopulation Growth	PO1, PO7
2	UnderstandDemographic Indicators	PO2, PO3
3	Assessthecauses andimpactof Migrationonrural-urban population distribution	PO2,PO7
4	Analysethemajordemographictrendsandtheir determinants	PO1,PO2
5	EvaluatePopulationPolicyof India andanalyse recenttrends.	PO1,PO2,PO3
Textbooks		
1	Jhingan,M. L, B.K.Bhatt,J.N.Desan(2003)Demography, VrindaPublications,New Delhi	
2	RajendraK.Sharma(2007),Demographyand PopulationProblems, Atlantic PublishersandDistributorsPvt.Ltd.	
3.	JenniferHickes Lundquist,DouglasL.AndertonandDavidYaukey,―Demography: The StudyofHumanPopulation‖,WavelandPressInc,2015	
4.	DudleyL.Poston,Jr.andLeonF.Bouvier,―PopulationandSociety:AnIntroduction toDemography‖,CambridgeUniversityPress,2015	
5.	Richard.KThomas,―Concepts,MethodsandPracticalApplicationsinApplied Demography‖,Springer,2018	
ReferenceBooks		
1.	AgarwalaS.N.(1985), India‗sPopulationProblem,TataMcGraw-Hill,Bombay.	
2.	Bhende,A.andT.R.Kanitkar(1982),PrinciplesofPopulationStudies, Himalaya PublishingHouse,Bombay.	
3.	Bogue,D.J.(1969),PrinciplesofDemography,JohnWiley, NewYork	
4.	SarahHarper (2018),Demography:AVeryShort Introduction,OxfordPress2018.	
5.	PeterR. Cox,Demography-5thEdition,CambridgeUniversityPress.	
WebResources		
1.	https://data.worldbank.org/indicator/SP.POP.TOTL	
2.	https://www.iom.int/	
3.	https://censusindia.gov.in	
4.	https://www.nationalgeographic.org/encyclopedia/demography/	
5.	https://www.nature.com/scitable/knowledge/library/introduction-to-population-demographics-83032908/	

MappingwithProgrammeOutcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	3	3	3	2	3	2	3	3
Weightage	15	14	15	14	14	15	14	15
Weighted percentage ofcoursecontribution to POS	3.00	3.00	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sandCO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	3	3
CO4	3	2	2	3	3
CO5	3	3	3	3	3
Weightage	15	14	14	13	13
Weightedpercentageof CourseContributionto PSOs	3	2.8	2.8	2.6	2.6

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR-SEMESTER-I-SKILLENHANCEMENTFOUNDATION

COURSE

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	BUSINESS COMMUNICATION	Skill Enhancement Foundation					3	4	25	75	100

LearningObjectives

C1	Toknowthemeaningobjectives androle ofcommunication and media
C2	Tounderstandtheneedandimportanceof communicationinmanagement
C3	Toapplytheneedand functionofbusiness letter
C4	Tostudythe business correspondents with insuranceand other organisation
C5	Tounderstandthe meaningandimportanceofreport writing

UNIT	Contents	No.of Hours
I	**Communication** Communication: Meaning and Definition - Objectives - Role of Communication – Process and Elements of Communication - Communication Networks-TypesandMediaofCommunication–BarrierstoCommunication -CharacteristicsforSuccessful Communication	15
II	**Communicationin Management** Management and Communication: Need and Importance of Communication in Management – Corporate Communication - Communication Training for Managers - Communication Structure in an Organization.	15
III	**Business Letters** Business Letter: Need – Functions – Kinds – Essentials of effective BusinessLetter-LanguageandLayout–Planning,EnquiriesandReplies-SalesLetter -Orders,TenderandNotice -Complaints - Letter ofAppointment.	18
IV	**Correspondence** Correspondence: Bank Correspondence - Insurance Correspondence – Agency Correspondence - Import-Export Correspondence	15
V	**ReportWriting** Report Writing: Meaning and Importance - Purpose - Types of Business Reports - Characteristics of a Good Report - Report Preparation - Report by Individual and Committees - Agenda and Minutes of Meeting.	12
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1.	Understandthebasicsofcommunicationanditsprocess,Elements, andits importance.	PO1,PO2
2.	Acquirecommunicationskills.	PO1,PO4
3.	Employthe artofreportpreparation andwritingBusinessLetters	PO2,PO6
4.	Useappropriate technologyforbusiness presentations and digital communicationandwriteE-mailsinastructuredpattern.	PO5,PO6, PO8
5.	Employthe artofreportpreparation	PO4,PO6,PO7

Textbooks

1.	Korlahalli,J.S.,&Pal,R.(1979)EssentialsofBusinessCommunication.S.Chand, New Delhi.
2.	KaulA,(2015)EffectiveBusinessCommunication.SecondEditionPrenticeHallIndia LearningPrivateLimited.
3.	RaymondLesikar andJohnPettit,Jr.(2016)ReportWritingforBusinessMcGraw Hill Education
4.	ScottMclean,‖BusinessCommunicationforSuccess‖,FlatWorldKnowlegde,2010
5.	ViranderK.Jain,—BusinessCommunication‖,S.ChandLimited,2008

ReferenceBooks

1.	Kumar,R.(2010).BasicBusinessCommunication.ExcelBooksIndia.
2.	Bovee,C. L. (2008). BusinessCommunicationtoday.PearsonEducationIndia.
3.	Lesikar,R.V.,&Pettit,J.D.(1989).Businesscommunication:Theoryandapplication. IrwinProfessionalPublishing.
4.	MaryEllenGuffyandDanaLoewy(2012)EssentialsofBusinessCommunication Cengage Learning
5.	C.B.Gupta(2019)EssentialsofBusinessCommunicationCengageLearningIndiaPvt. Ltd

WebResources

1.	https://www.managementstudyguide.com/business_communication.htm
2.	https://studiousguy.com/business-communication/
3.	https://www.indeed.com/career-advice/resumes-cover-letters/business-communication-skills
4.	https://www.softskillsaha.com/what-is-meaning-of-business-communication-skills.php
5.	https://www.mindtools.com/page8.html

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	3	3	3	2	3	2	3	3
Weightage	15	14	15	14	14	15	14	15
Weighted percentage of course contributionto POS	3.00	3.00	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1LevelofCorrelationbetweenPSO'sandCO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	2	3	2	3	3
CO2	2	2	3	3	3
CO3	3	2	2	3	3
CO4	2	2	3	2	2
CO5	2	2	3	3	3
Weightage	11	11	13	14	14
Weightedpercentageof CourseContribution to PSOs	2.2	2.2	2.6	2.8	2.8

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR-SEMESTERII

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	MICROECONOMICS-II	**Core -III**					4	5	25	75	100

LearningObjectives	
C1	Toequipthestudents togainknowledgeonthemarketstructures
C2	Toanalysethe monopolyandpricediscriminationinthemarket
C3	Toprobethemonopolisticandoligopolycompetitionsanditsoperation
C4	ToenrichthestudentsabouttheTheoriesofDistribution
C5	TounderstandtheconceptsofWelfare Economics

UNIT	Contents	No. of Hours
I	**PerfectCompetition** FeaturesofPerfectCompetition–Equilibriumofthefirmandthe industry in the Short Run - Long-Run Equilibrium in Perfect Competition- Time Element Analysis.	14
II	**MonopolyandPriceDiscrimination** Definition of Monopoly–Demand and Marginal Revenue - Equilibrium under Monopoly– Dead Weight Loss -Policies to Control Monopoly – Price Discrimination–First Degree, Second Degree and Third-Degree Price Discrimination – Dumping.	15
III	**MonopolisticandOligopolyCompetition** Monopolistic Competition–Features– Product Differentiation–Market Equilibrium and Short Run and Long Run- Barriers to Entry – Group and Industry Equilibrium– Excess Capacity -Oligopoly – Kinked Demand Curve – Collusion – Cartels and Price Leadership –Game Theory – Minimax – Maximin – Nash Equilibrium.	16
IV	**DistributionTheory** Functional and Personal Distribution – Marginal Productivity Theory of Distribution – Product Exhaustion Theorem - Concepts of VMP and MRP.	14
V	**WelfareEconomicsandGeneralEquilibrium** WelfareCriteria–AdamSmith–Edgeworth –Pareto-Kaldor–Market Failure – Externalities – Walrasian General Equilibrium – Static Properties for Consumption, Production, and Distribution.	16
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandtheequilibriumconditionsinPerfectCompetition.	PO1, PO2
2	Analyzethe equilibriumconditionsunderMonopolyMarket Structure.	PO1,PO2
3	DescribetheMarketEquilibriumunderMonopolisticandOligopoly Market.	PO1,PO2
4	Knowthe importanceof theories ofDistribution.	PO1,PO2
5	Evaluatetheaspectsof WelfareEconomicsand GeneralEquilibrium.	PO2,PO3,PO7
Textbooks		
1.	RobertPindyckandDanielL.Rubinfield,(2001)MicroEconomics,Macmillan.	
2.	HalR.Varian(2004), IntermediateMicroEconomicsEast-WestPress:NewDelhi.	
3.	WalterNicholsonandChristopherSnyder,Micro EconomicTheory-Basic Principles andExtensions,Cengage LearningIndiaPvt, Ltd,12thEdition,2016.	
4.	PaulKrugmanandRobinWells,MicroEconomics,WorthPublishers,2020.	
5.	TimothyTaylor,Steven AGreenlawandDavidShapiro(2017)Principlesof Economics, 12thMediaServices.	
ReferenceBooks		
1.	Koutsoyiannis(2003),ModernMicroeconomics,PalgraveMacmillan(UK) 2ndEdition.	
2.	GregoryMankiw(2012),PrinciplesofMicroeconomicsCengageIndia**.**	
3.	Case&Fair,PrinciplesofEconomicsMyeconlabseries 8thEdn.	
4.	Mansfield,Edwinand Yohe,Gary(2010):Microeconomics 4th ed,Viva-NortonIndian Edition	
5.	FergusonC.E.(1970),MicroEconomicTheory,(Homewood,U.S.A)	
WebResources		
1.	https://open.umn.edu/opentextbooks/subjects/economics	
2.	https://global.oup.com	
3.	https://www.economicsnetwork.ac.uk	
4.	https://edge.sagepub.com/sextonmicro8e	
5.	https://www.aeaweb.org/resources/students	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	2	3	2	3	3	2	3	3
Weightage	14	15	14	15	14	14	14	15
Weightedpercentage of course contribution to POS	2.8	3.00	2.8	3.00	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2 L-Low-1LevelofCorrelationbetweenPSO'sandCO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	2	2
CO3	3	3	3	2	3
CO4	3	3	3	2	2
CO5	3	3	3	3	3
Weightage	15	15	15	12	12
Weightedpercentageof CourseContributionto PSOs	3	3	3	2.4	2.4

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR-SEMESTERII

<table>
<tr><th rowspan="2">Subject Code</th><th rowspan="2">SubjectName</th><th rowspan="2">Category</th><th rowspan="2">L</th><th rowspan="2">T</th><th rowspan="2">P</th><th rowspan="2">S</th><th rowspan="2">Credits</th><th rowspan="2">Inst. Hours</th><th colspan="3">Marks</th></tr>
<tr><th>CIA</th><th>External</th><th>Total</th></tr>
<tr><td></td><td>STATISTICSFOR ECONOMICS-II</td><td>Core-IV</td><td></td><td></td><td></td><td></td><td>4</td><td>5</td><td>25</td><td>75</td><td>100</td></tr>
<tr><td colspan="12">LearningObjectives</td></tr>
<tr><td>C1</td><td colspan="11">Tounderstandthevarious methodsofindexnumbersandits applications</td></tr>
<tr><td>C2</td><td colspan="11">Toanalysethe componentsand measurementoftimeseries data</td></tr>
<tr><td>C3</td><td colspan="11">Toknowthe theories of probabilityand its applications</td></tr>
<tr><td>C4</td><td colspan="11">Toprobetheresearch designand samplingmethods</td></tr>
<tr><td>C5</td><td colspan="11">Toacquireknowledgeontheapplicationoftestof HypothesesinResearch</td></tr>
<tr><td>UNIT</td><td colspan="9">Contents</td><td colspan="2">No. of Hours</td></tr>
<tr><td>I</td><td colspan="9">IndexNumbers
Index Numbers – Methods – Unweighted and Weighted Index Numbers – Aggregate and Relative Index Numbers – Chain and Fixed based Index Numbers–TestofAdequacyofIndexNumbers–WholesalePriceIndex–ConsumerPriceIndex–Costof LivingIndex.</td><td colspan="2">15</td></tr>
<tr><td>II</td><td colspan="9">TimeSeriesAnalysis
Definition– Components and Measurement– Graphic Method - Methods of Semi Average, Moving Averages and Method of Least Squares – Uses of Time Series Analysis.</td><td colspan="2">15</td></tr>
<tr><td>III</td><td colspan="9">Theoryof Probability
key Concepts of Probability – Importance – Theorems of Probability: Addition, Multiplication and Bayes‘ Theorem - Discrete and Continuous Random Variables – Theoretical Distributions – Binomial, Poisson and Normal – Properties- Uses and Applications.</td><td colspan="2">15</td></tr>
<tr><td>IV</td><td colspan="9">Sampling
Sampling – Census and Sample Method – Theoretical Basis of Sampling – Methods of sampling – Random and Non –Random Sampling - Size of Sample – Merits and Limitations of Sampling – Sampling and Non-Sampling Errors.</td><td colspan="2">15</td></tr>
<tr><td>V</td><td colspan="9">TestingofHypothesis
Hypothesis Testing – Meaning, Types, Sources and Functions of Hypothesis – Test: Null and Alternative Hypothesis – Type – I and Type – II Errors– _t‘ Test–Paired_t‘-test–Chi–Squaretest,_F‘test–AnalysisofVariance-One way and Two-way ANOVA.</td><td colspan="2">15</td></tr>
<tr><td></td><td colspan="9">Total</td><td colspan="2">75 hours</td></tr>
</table>

Course Outcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	GainKnowledgeonthe IndexNumbers	PO1, PO2,PO3
2	Analyzetheimportance ofTimeSeriesDataandits measurement	PO1,PO2,PO3
3	Understandthe conceptofProbability	PO2
4	Identifythe various SamplingMethods	PO1, PO2
5	AcquireKnowledgeon HypothesisTesting	PO2,PO3,PO7,PO8

Textbooks	
1	S.PGupta,(2017)―StatisticalMethods‖,SultanChand&Sons.
2	Anderson,Sweeneyand Williams(2012),―StatisticsforBusinessandEconomics Cengage,2012.
3	PillaiR.S.N.&BagavathiV(2012)―Statistics:TheoryandPractice‖ S.Chand&CompanyLtd.NewDelhi.
4.	Dr.T.K.V.Iyengar,Dr.B.KrishnaGandhiS.Ranganantham,Dr.M.V.S.S.NPrasad, Probability and Statistics, S.Chand and Co, 2020.
5.	ProfS.G.VekatachalapathyandDr.H.Premraj(2018)StatisticalMethodsMargham Publications.

ReferenceBooks	
1.	Anderson,DavidRay,―StatisticsforBusinessandEconomics‖,South-Western Pub,2001.
2.	SanchetiandKapoor,Statistics,(2015)Sultan&SonsNewDelhi.
3.	GuptaS.C.StatisticalMethods(2015)Sultan&sonsNew Delhi.
4.	MongaG.S.―MathematicsandStatisticsforEconomics‖(2001),VikasPublishing HousePvt.LtdNewDelhi.
5.	DominickSalvatoreandDerrick Reagle,theoryandproblems of statisticsandeconometrics,McGraw Hill,(2002)

WebResources	
1.	https://stattrek.com/statistics/resources
2.	https://www.cuemath.com/data/f-test/
3.	https://www.statistics.com/
4.	https://thisisstatistics.org/students/
5.	https://oli.cmu.edu/courses/probability-statistics-open-free/

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	3	2	2	2	3	2	3	3
Weightage	15	14	14	14	14	14	14	15
Weighted percentage of course contributionto POS	3.00	2.8	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weightedpercentageof CourseContribution to PSOs	3	3	3	3	3

Strong-3 M-Medium-2L-Low-1

FIRST YEAR-SEMESTER II

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	HISTORYOF ECONOMIC THOUGHT	**Generic Elective-II**					3	4	25	75	100

LearningObjectives	
C1	Toexplainthe natureandscopeof economicthought andits principles
C2	Tounderstand theclassical economists ideologyandtheoryofMarx
C3	Toknowthe Kenesian revolution and its analysis
C4	TobuildtheMarginalism Revolutionandits operations
C5	TodescribesthethoughtsofvariousNobellaureatesin economics

UNIT	Contents	No. of Hours
I	**Pre-ClassicalThought** Nature and Scope of Economic Thought-Mercantilism: Growth of Mercantilism-MainPrinciples–ImportantMercantilists-Physiocracy -Mainconcepts - ImportantPhysiocrats	18
II	**ClassicalEconomistsandKarlMarx** Adam Smith- Division of Labour- Theory of Value- Laissez Faire- Canons of Taxation - Ricardo: Theory of Rent - Comparative AdvantageTheoryofTrade-Malthus-TheoryofPopulation–Theory of Gluts –Karl Marx-Theory of Surplus Value -Breakdown of the Capitalist System	15
III	**Neo-ClassicalandInstitutionalistThought** The Marginalist Revolution- Marshall: Value and Role of Time – MarginalUtilityandConsumer‘sSurplus –Distribution–Marshallian Concepts – Representative Firm, Economies of Scale, Quasi-Rent- Institutional Economics – Veblen – Mitchell –J.R.Commons.	15
IV	**KeynesianRevolutionandModernThought** Keynes – Psychological law of Consumption- Effective Demand- Theory of Employment-- Schumpeter‘s Theory of Innovation - Hicks theory of Trade Cycle- New Keynesian Economics- New classical Economics –Rational Expectation Hypothesis.	12
V	**Nobel Laureates in Economics and Indian Economic Thought** NobelLaureatesinEconomics–PaulASamuelson–Kuznets–Hicks – Myrdal – Milton Friedman – Recent NobelLaureates (Last ThreeYears)-IndianEconomicThought–DadabhaiNaoroji-Mahatma Gandhi-B.R.Ambedkar–AmartyaSen–Sen‘sCapabilityApproach –PovertyandInequality.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Acquireknowledgeon thesubject matterof HistoryofEconomic Thought.	PO1
2	Understandthe contributionsoftheClassicalIdeasofEconomics.	PO1,PO2
3	DescribeNeoClassicaland InstitutionalEconomicIdeas	PO1,PO2
4	ExaminetheKeynesian SchoolandModernEconomic Ideas	PO1,PO2
5	Understandthe contributionof Nobel Laureates andIndian EconomicIdeas	PO1,PO2,PO8
Textbooks		
1	Lokanathan,V,HistoryofEconomicThought,SChand&CoLtd.	
2	Bhatia,H.L.(2018), Historyof EconomicThought, S Chand &CoLtd.	
3	SrivastavaS.K(2002)Historyof EconomicThought,S.Chand Publication.	
4	M.LJhingan,M.Girija,L.Sasikala—HistoryofEconomicThought‖3rdEdition, VirndaPublication2014.	
5	R.R.Paul—HistoryofEconomicThought‖,KalyaniPublisher,2018.	
ReferenceBooks		
1.	AmartyaSen(1982),Welfareand Measurement, OxfordUniversityPress, NewDelhi.	
2.	Gandhi,M.K.(1938),EconomicsofVillageIndustries,NavjivanPublishers,New Delhi.	
3.	T.N.Hajela,(2015), Historyof EconomicThought AneStudents Edition 18thEdition.	
4.	Gideand Rist,(2014), AHistoryof EconomicDoctrines, Nabu Press.	
5.	V.Lokanathan(2009)—A HistoryofEconomicThought:S.Chand&Co Limited.	
WebResources		
1.	https://www.hetwebsite.net/het/	
2.	https://thoughteconomics.com/	
3.	https://www.nobelprize/economic-sciences/	
4.	https://www.aeaweb.org/resources/students	
5.	https://sites.google.com/site/maeconomicsku/home	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	2	2	2	2	3	2	3	3
Weightage	14	14	14	14	14	14	15	15
Weighted percentage of course contributionto POS	2.8	2.8	2.8	2.8	2.8	2.8	3.00	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	3	3
CO4	3	3	2	2	2
CO5	3	3	3	3	3
Weightage	15	15	14	12	12
Weightedpercentageof CourseContributionto PSOs	3	3	2.8	2.6	2.6

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR-SEMESTERII

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	INTRODUCTIONTOE COMMERCE	**Generic Elective -II**					2	2	25	75	100

LearningObjectives	
C1	Tolearn thenatureandconceptsof E-commerceinIndia
C2	Tounderstand thevarious businessmodelsforE-Commerceandits uses
C3	ToanalysetheVarious onlinebusinesstransactions andits applications
C4	ToexplaintheE-Promotion andconsumerprotection anditslatest amendments
C5	Toupdate thestudents onvarious methodsof E-paymentsystems andtis risks.

UNIT	Contents	No.of Hours
I	**Introduction** Meaning–Nature–Concepts–advantagesanddisadvantages–online Transaction - Types of E-Commerce - Growth of E-Commerce in India.	12
II	**Business Modelsfor E-commerce** E-commerce Models - Business-to-Business (B2B) – Business– to-Consumer (B2C) - Consumer-to-Consumer (C2C) - Consumer-to-Business (C2B) - Direct to Customer (D2C) – Peer-to-Peer (P2P) - Brokerage Model - Aggregator Model.	15
III	**OnlineBusiness Transactions** E-Commerce Applications in Various Industries- Banking, Insurance, Payment Of Utility Bills - Online Marketing /E-Tailing (Popularity, Benefits, Problems and Features) -Online Services (Financial, Travel and Career) /Auctions, Online Portal, Online Learning - Publishing and Entertainment - Online Shopping	15
IV	**E-PromotionandConsumerProtection** E-Advertising techniques: Banners, Sponsorships, Portals, and online coupons-Role of Influencers in Social Media- Marketing-Porters Value Chain Model-E- Commerce and consumers-Consumer Protection (E-Commerce) Rules 2020 and Latest Amendments	18
V	**E-PaymentSystem** Models and Methods of e–Payments (Debit Card, Credit Card, Smart Cards, e-money) - Digital Signatures (procedure, working and legal position) - Payment Gateways - Online Banking: Meaning, Concepts, Importance, Electronic Fund Transfer - Automated Clearing House - Automated Ledger posting - Risks involved in e-payments.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO		
1	Understandthe pros &cons of E-commerce.	PO1,PO2
2	Analyzethevarious modelsof E-commerce.	PO1,PO2
3	Understandtheonlinebusinesstransactionandtheirimpact on relatedservice providers.	PO2,PO3
4	Understandthe e-marketingmixandbefamiliarwithconsumer protection.	PO3.PO4
5	Knowthe mechanismof E-payment andits operations.	,PO2,PO3PO8
Textbooks		
1	BajajK.Kand DebjaniNag(2017), E-commerce,McGrawHill Educatio	
2	ChhabraT.N,Suri and Sanjiv Varma(2005)E-Commerce, DhanpatRai &Co	
3	Dr.K.AbiramiDeviandDr.M.Alagammal,―E-Commerce‖,MargahamPublication,	
4	AmirManzoor,―E-Commerce:AnIntroduction‖,LambertAcademicPubishing,2010	
5	Dr.Shivani Arora,―E-Commerce‖,Taxmann Publishing,2017	
ReferenceBooks		
1.	Pandey(2013)Ecommerce anditsApplications,S.K.Kataria&Sons	
2.	KennethC.LaudonandCarloGuercioTraver(2020),E-Commerce,Pearson Education.	
3.	PralokGupta(2020)E-commerceinIndia:EconomicandLegalPerspectives,SAGE Publications IndiaPvt Ltd	
4.	DavidWhitley(2017)E-Commerce:Strategy,TechnologiesandApplications,	
5.	JosephP.T.,S.J(2019)―E-Commerce:AnIndianPerspective‖PHILearningPvt. Ltd.	
WebResources		
1.	https://ecommerce-platforms.com/resources	
2.	https://ecommerceguide.com	
3.	https://www.bigcommerce.com/resources/	
4.	https://www.cloudways.com/blog/top-ecommerce-websites/	
5.	https://www.indiafilings.com/learn/how-to-start-an-ecommerce-business-in-india/	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	2	2	3	3	3	2	3	3
Weightage	14	14	15	15	14	14	15	15
Weighted percentage of course contributionto POS	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.00

S-Strong-3M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	2	2	3	3
CO4	3	2	2	3	3
CO5	3	2	2	3	3
Weightage	15	12	12	14	14
Weightedpercentageof CourseContributionto PSOs	3	2.6	2.6	2.8	2.8

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR-SEMESTERII

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	ECONOMICSFOR INVESTORS	**SEC-2**					2	2	25	75	100

LearningObjectives	
C1	Tounderstandconcepts ofsaving andinvestments
C2	Toprobethevariousinvestmentavenue anditspractice applications
C3	Toenablesvariousinvestmentmarkersanditsfeatures
C4	ToKnowtheeconomicfundamentals andtheBusiness Environment
C5	Tounderstandvariousinvestment methodsandits strategies

UNIT	Contents	No.of Hours
I	**Introduction** Saving and Investments – Meaning – Types - Importance – Role of Savings and Investment on the development of Individuals- Distributional Role of Investment – Income and Wealth – Equitable Distributional Role	15
II	**InvestmentAvenues** Traditional Investment – Cash, Deposits, Gold, Silver, Commodities Real Estates. Modern Investment – Direct Investment – Portfolio Investment - Insurance -Mutual Funds -Traded Funds.	14
III	**InvestmentMarkets** Capital Market – Share Market – Primary and Secondary – Bond Markets- MoneyMarket–MetalMarket-CommoditiesMarkets–ForeignExchange Market-Hedging-Futures andOptions	16
IV	**EconomicfundamentalsforInvestors** Domestic Economic Environment: Economic Growth and Development – National Income – Per Capita Income, Unemployment – Taxes, Trade Cycle – Infrastructure–PhysicalandEconomic.PoliticalandSocialEnvironment-International Economic Environment: International Economic Growth and Development, Trade, Foreign Exchange - Global Recession- Oil Market – War Between Countries	15
V	**InvestmentMethodsandStrategies.** Cash Flow – Capital Gain– Risk Rewarding –Asset Accumulation - RiskDistribution – Asset Management.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Describethetypesandimportanceof savingsand investments.	PO1
2	Explaintheavailablefor investmentavenues	PO2
3	Understandtheoperationsofdifferenttypesofinvestment markets.	PO1,PO2
4	Evaluatetheeconomicfundamentalsand information.	PO1,PO3
5	Constructobjectiveenablinginvestmentplans,strategy,evaluate andrestructureif required.	PO2,PO3,PO4

Textbooks	
1	KenMcElroy,(2004)TheABCsofRealEstate Investing,HachetteBookGroup USA
2	EsmeFaerber(2013),AllaboutStocks,TataMGrawHill,NewDelhi
3	ChristopherD.Piros,JeraldE.Pinto(2013),―EconomicsforInvestmentDecision Makers:Micro, Macro, and International Economics, Workbook‖, Wiley, 2013
4.	JohnCalverley,―TheInvestor'sGuidetoEconomicFundamentals‖,Wiley,2003
5	Howards Marks, MasteringTheMarket Cycle:Gettingthe Odds on Your Side‖, John Murray Press, 2018

ReferenceBooks	
1.	RobertT.Kyosaki,(2014)GuideToInvestingBusinessPlus ISBN:9780446589161
2.	BenjamineGraham(1949),TheIntelligentInvestor,Harper&Brothers
3.	MaryBuffettandDavidClark(2002),TheNew Buffettology(SimonandSchuster)
4.	JohnCBogle(2017)TheLittleBookofCommonSenseInvesting:TheOnlyWayto GuaranteeYour FairShareof StockMarket Returns, WileyPublications
5.	WilliamJ.O'Neil(2009)HowtoMakeMoneyinStocks:AWinningSystemin GoodTimesandBad, FourthEditionMcGrawHill Education

WebResources	
1.	https://www.capitalmarket.com/
2.	https://www.icmagroup.org/
3.	https://www.nseindia.com
4.	https://www.stockbrokers.com/guides/beginner-investors
5.	https://www.nasdaq.com/articles/10-best-stock-trading-websites-for-beginners

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	2	2	3	3	3	2	3	3
Weightage	14	14	15	15	14	14	15	15
Weighted percentage of course contributionto POS	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	2	2
CO3	2	2	3	3	3
CO4	3	3	2	2	2
CO5	2	2	3	3	3
Weightage	13	13	14	13	12
Weightedpercentageof CourseContributionto PSOs	2.6	2.6	2.8	2.6	2.4

Strong-3 M-Medium-2L-Low-1

FIRSTYEAR-SEMESTERII

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	COMPUTER APPLICATIONSIN ECONOMICS	**SEC-3**					2	2	25	75	100

LearningObjectives		
C1	Toknowthebasic conceptsof Computer Applications	
C2	To applythe MS officeand its basicoperations	
C3	Todescribesthedataprocessingtechniquesusingvarious MSoffice operations	
C4	Togainknowledgeon applicationofMS Excel	
C5	Toknowmathematicalandstatisticalfunctionsfor Economic Analysis	
UNIT	**Contents**	**No. of Hours**
I	**IntroductiontoComputers** Computer and Peripherals: Meaning, Types, Features andLimitations–BasicComponents–InputandOutputDevices–PrimaryMemoryand Secondary Storage – Computer Software– Types – Malicious Software – Operating Systems: Functions and Types.	15
II	**MSOffice** Windows Explorer - MS Word: Basic Operations in Word – Editing– Formatting – Text Creation of Tables and Volumes - MS Power Point Presentation- Creating, Opening and Saving Slideshow and Animations - MS Excel: Work Sheet and Work Book- Opening and Formatting.	15
III	**Data Processing** Data Processing Techniques using MS Excel: Concept of Data – Record andFile–TypesofData–DataEntry–FileHandlingandOperations– Opening, Appending and Cascading – Closing and Attribute Controls – Data Storage and Retrieval.	12
IV	**IntroductiontoMSExcel** Calculation Operators: Arithmetic Operators – Comparison Operators – Logical Operations- Excel Tool Bars- Formatting of Text, Tables and Graphs.	15
V	**Applicationof MSExcelinStatisticsandEconomics** Descriptive Statistics: Mean, Median, Mode and Standard Deviation Variance- Index Numbers and Growth Rates - Demand Function -Supply Function, Production Function and Consumption Function - Demand for and Supply of Money- Correlation – Regression.	18
	Total	**75**

<table>
<tr><th colspan="2">Course Outcomes</th><th>Programme Outcomes</th></tr>
<tr><td>CO</td><td>Oncompletionofthiscourse,studentswill</td><td></td></tr>
<tr><td>1</td><td>Understandbasiccomponentsof Computerandits functions.</td><td>PO1, PO3,PO8</td></tr>
<tr><td>2</td><td>GainKnowledgeofMS Office.</td><td>PO3,PO8</td></tr>
<tr><td>3</td><td>Outlinedata processingtechniques ofMS Excel.</td><td>PO2,PO3,PO8</td></tr>
<tr><td>4</td><td>UnderstandbasicOperationinMS Excel.</td><td>PO1,PO2,PO8</td></tr>
<tr><td>5</td><td>ApplyMS Excel inStatistics andEconomics.</td><td>PO2,PO3,PO8</td></tr>
<tr><th colspan="3">Textbooks</th></tr>
<tr><td>1</td><td colspan="2">HemChandJainand H.N.Tiwari(2019)ComputerApplicationsInBusiness ,5th EditionTaxmann Publication.</td></tr>
<tr><td>2</td><td colspan="2">Dhanasekaran.K(2010) ComputerApplications InEconomics Vrinda Publications.</td></tr>
<tr><td>3</td><td colspan="2">Asthanaand BrajBhushan(2007):StatisticsforSocialSciences (withSPSS Applications).</td></tr>
<tr><td>4.</td><td colspan="2">DanKookin,―WordforDummies‖,Wiley,2021</td></tr>
<tr><td>5.</td><td colspan="2">JosephMuller,―StatisticalAnalysiswithExcelForDummies‖,Wiley,2008</td></tr>
<tr><th colspan="3">ReferenceBooks</th></tr>
<tr><td>1.</td><td colspan="2">OscarAfonso,PauloB.Vasconcelos,ComputationalEconomics:AConcise Introduction,Routledge; 1st Edition</td></tr>
<tr><td>2.</td><td colspan="2">AlexisLeonandMathewsLeon;(2001),IntroductiontoComputerswithMs-Office 2000.McGrawHillEducation</td></tr>
<tr><td>3.</td><td colspan="2">GregHarvey,PhD,(2007)MicrosoftOfficeExcel2007ForDummies,Wiley Publishing.</td></tr>
<tr><td>4.</td><td colspan="2">Kerns(1992) EssentialsofMicrosoftWindows,WordandExcel,PrenticeHall</td></tr>
<tr><td>5.</td><td colspan="2">KavindraKumarSingh(2014)ComputerApplicationsin ManagementDreamTech</td></tr>
<tr><th colspan="3">WebResources</th></tr>
<tr><td>1.</td><td colspan="2">https://www.excel-easy.com/basics.html</td></tr>
<tr><td>2.</td><td colspan="2">https://excelchamps.com/excel-basics/</td></tr>
<tr><td>3.</td><td colspan="2">https://edu.gcfglobal.or/en/topics/excel/</td></tr>
<tr><td>4.</td><td colspan="2">https://trumpexcel.com/learn-excel/</td></tr>
<tr><td>5.</td><td colspan="2">https://www.simplilearn.com/learn-ms-excel-free-training-course-skillup</td></tr>
</table>

Mappingwith Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	3	2	2	3	3	3	3	3
Weightage	15	14	14	15	14	15	15	15
Weighted percentage of course contributionto POS	3.0	2.8	2.8	3.0	2.8	3.0	3.0	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	3
CO2	2	2	2	3	3
CO3	2	2	2	3	3
CO4	2	2	2	3	3
CO5	3	3	3	3	3
Weightage	11	11	11	15	15
Weightedpercentageof CourseContributionto PSOs	2.2	2.2	2.2	3	3

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-III

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	MACROECONOMICS-I	**Core -V**					4	5	25	75	100

LearningObjectives	
C1	Tounderstandthenationalincomeanditsrelatedconcepts
C2	Toanalysethe classical theoryoffull employmentand its advantages
C3	ToillustratetheKeynesianunderemploymenttheoryandits applications
C4	ToevaluatethetheoriesofConsumption andits types
C5	Toimpartstudents tounderstandinflation anditstypes

UNIT	Contents	No.of Hours
I	**NationalIncome** National Income: Definition –Concepts: GDP,GNP and Per Capita Income-National Income Measurement: Expenditure, Income andValueAdded Approaches-RealandNominalGDP–NationalIncomeAccounting -GDP Deflator – Green GDP – Happiness Index - Circular Flow of Income and Expenditure	15
II	**FullEmployment:ClassicalTheory** Introduction - Aggregate Demand and Aggregate Supply – Assumptions of ClassicalTheory–Say‘s Law–WageandPriceFlexibility-Employment and Output determination in Classical Model -Three Ranges in Aggregate Supply (AS)Curve	15
III	**UnderEmployment:Keynesian Theory** Keynes‘s Critique of Classical Theory – Involuntary Unemployment – Underemployment Equilibrium- Effective Demand – Components - Wage Rigidity–LiquidityPreference-ConsumptionFunction:Meaningand Attributes- Investment–MarginalEfficiencyof Capital-Multiplier.	18
IV	**Theoriesof Consumption** Keynesian Absolute Income Hypothesis – Duesenberry‘s Relative Income Hypothesis – Friedman‘s Permanent Income Hypothesis – Modigliani‘sLife Cycle Hypothesis.	15
V	**Inflation** Inflation: Definition and Types -Demand Pull -Cost Push and Mark-up Inflation– Consumer Price Index – Wholesale Price Index – Producer Price Index – Headline and Core Inflation- Phillips Curve.	12
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandthestructureofMacroeconomicsandtheConceptof GDP	PO1,PO2,PO3
2	Outlinethe concepts inClassical TheoryofEmployment	PO1,PO2
3	AnalysetheKeynesianUnderemployment Theory	PO1,PO2
4	Examinethe theoriesofConsumption Function	PO1,PO2, PO3
5	Understandthetypesandtheimpactof InflationonEconomies	PO2,PO3,PO8

Textbooks	
1	Mankiw.NGregory(2000),Macroeconomics,WorthPublishers,New York
2	VaishM.C.(2003)MacroEconomicTheory, S.Chand &CompanyLtd NewDelhi
3	PaulKrugmanandRobinWells(2015)MacroeconomicsWorthPublisher
4	H.L.Ahuja,MacroEconomics:TheoryandPolicyS.Chand,2016
5	AndrewB.Abel andBenS.Bernanke,MacroEconmics,PearsonEducation, Inc.,7th Edition, 2011.

ReferenceBooks	
1.	RudigerDornbusch,StanleyFischer,andRichardStartz(2000),Macroeconomics, Tata McGraw-HillPublishingCompany,New Delhi.
2.	Parkin,M., 2014.MacroEconomics.11th Edition.Essex: Pearson
3.	Blanchard,OlivierandDavidR.Johnson(2013)Macroeconomics,Pearson.
4.	Mueller, M.G. (Ed.)(1978),Readingsin Macroeconomics, Surjeet Publications,NewDelhi
5.	RogerE.A.Farmer(2002),MacroEconomics,ThompsonAsiaPvtLtd.,Singapore.

WebResources	
1.	http://www2.econ.iastate.edu/tesfatsi/sources.htm
2.	https://www.khanacademy.org/economics-finance-domain/macroeconomics
3.	https://www.econlib.org
4.	https://economics.mit.edu/
5.	https://hbswk.hbs.edu/

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	2	3	2	3	3	3	3	3
Weightage	14	15	14	15	14	15	15	15
Weighted percentage of course contributionto POS	2.8	3.0	2.8	3.0	2.8	3.0	3.0	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	2	2
CO3	3	3	3	2	2
CO4	3	3	2	2	2
CO5	3	3	3	3	3
Weightage	15	15	14	12	11
Weightedpercentageof CourseContributionto PSOs	3	3	2.8	2.6	2.2

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-III

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	MATHEMATICSFOR ECONOMICS	**Core -VI**					4	5	25	75	100

LearningObjectives	
C1	Tointegratetheconcepts ofEconomicswithMathematicaltools.
C2	TouseMatrices to find solutions in Economics.
C3	Toapplythe applicationsofMatrixalgebraanditsuses
C4	Toknowthe differentiationand its function
C5	Tounderstand thesecond order derivativesanditsmaxi mini function

UNIT	Contents	No. of Hours
I	**Introduction** Variables, Constants, Equations and its types – Uses andlimitations of Mathematics in Economics- Functions of one ormore variables – Linear function, Parabola, Rectangular Hyperbola-Exponential,Logarithmic,Powerfunctionand Homogenous Function– ApplicationsinEconomics	12
II	**MatrixAlgebraand Determinants** Types of Matrices- Matrix Operations – Addition – Subtraction-Matrix Multiplication – Transpose –Determinants, Inverse and Properties (Problems).	15
III	**ApplicationsofMatrixAlgebra** Solving a system of Linear Equations – Cramer‘s Rule and Matrix Inverse Method- Leontief‟s Input-Output Model – OpenandClosedModel-Components,Uses,andLimitations-Hawkins – Simon Conditions for Viability of Input and Output Model (Problems).	18
IV	**Differentiation** Limits and Continuity –Differentiabilityof a Function – Slope of a Curve–Increasingand DecreasingFunctions –Rules-Exponential and Logarithmic Functions -Implicit Differentiation– Economic Applications: Marginal and Elasticity Concepts – Relationship between AR, MR, and Price Elasticity of Demand – Relationship Between Average and Marginal Cost.	15
V	**Optimization(Single Variable)** Second Order Derivatives–Maximization and Minimization of aFunction–EconomicApplications–OutputandRevenue Maximization-CostMinimization–ProfitMaximizationunder	15

	Perfect Competition, Monopoly, Discriminating Monopoly (Problems).	
	Total	**75**
Course Outcomes		**Programme Outcomes**
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandBasicConceptsofMathematicsanditsapplicationin Economics.	PO1,PO3
2	Analyzethe relevanceof theTypesofMatrices	PO1,PO2
3	Calculateoptimalvaluesinthesystemof Equationsandthe importanceof Input-Output Analysis	PO2,PO3
4	GainknowledgeoftherulesofDifferentiationanditsEconomic Applications	PO1,PO2, PO3
5	TooptimizesinglevariablefunctionsinEconomics	PO1,PO3
Textbooks		
1	MehtaandMadnani (2019)Mathematics for EconomistsSultan Chandand Sons	
2	EdwardT.Dowling,(2002) ―MathematicalMethodsforBusinessandEconomics‖, Schaum‘sOutlineSeries, 3rd Edition,McGrawHill	
3	RenshawGeoff,(2005)MathsforEconomics,3rd EditionOxfordUniversityPress, Oxford	
4	CarlPSimon&LawrenceE.Blume,―MathematicsforEconomists‖,PublishedbyW. W.Norton & Company,2010	
5	IanJacques,―MathematicsforEconomicsandBusiness‖,Pearson,2018	
ReferenceBooks		
1.	Chiang,A.C.,FundamentalMethodsofMathematicalEconomics,McGraw-Hill, 1984	
2.	G.Hadley,LinearAlgebraAddison–WesleyPublishingCompany, 1977.	
3.	K.SydsaeterandPHammond,MathematicsforEconomicAnalysis, Pearson EducationalAsia,Delhi2002.	
4.	Mabett.AlanJWorkoutforMathematics forEconomistMcMillan 1986.	
5.	R.G.D.Allen,MathematicalAnalysisforEconomistsMacmillanandCo.Ltd.,2008	
WebResources		
1.	https://www.coursera.org/learn/mathematics-for-economists	
2.	https://mitpress.mit.edu/9780262294805/mathematics-for-economics/	
3.	https://hummedia.manchester.ac.uk/school/soss/economics/pg/psmaths/pre-sessionmathbook.pdf	
4.	https://mitpress.mit.edu/9780262046626/mathematics-for-economics/	
5.		

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3
CO 5	3	2	3	3	3	3	3	3
Weightage	15	14	15	15	14	15	15	15
Weighted percentage of course contributionto POS	3.0	2.8	3.0	3.0	2.8	3.0	3.0	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	2
CO2	3	3	2	2	2
CO3	3	3	2	2	2
CO4	3	3	3	2	3
CO5	2	2	3	3	3
Weightage	14	14	12	11	12
Weightedpercentageof CourseContributionto PSOs	2.8	2.8	2.6	2.2	2.6

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-III

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	PRINCIPLESOF MARKETING	Elective					3	4	25	75	100

LearningObjectives		
C1	Toassessthenatureandscopeofmarketingandits functions	
C2	Tounderstandthebuyingbehaviorandmarketsegmentationwith consumer protectionact	
C3	Toknowthe product, pricingdecisionsand pricingof new products	
C4	Torevealsthedistributionandpromotionsdecisionsitstypesandmethods	
C5	Toanalysethemarketing techniqueandmarketing services	
UNIT	**Contents**	**No. of Hours**
I	**Introduction** Marketing:Definition,NatureandScope–MarketingFunctions–ModernConceptofMarketing–ClassificationofMarkets–Buying–Transportation–Warehousing–Standardization –Grading.	15
II	**BuyingBehaviourandMarket Segmentation** BuyingBehaviour–Classification-BuyingDecisionProcess–Buying Motives – Consumer Protection Act 1986 and Latest Amendments-Market Segmentation: Concept and Methods - Product Differentiation Vs. Market Segmentation - Marketing Mix	15
III	**ProductandPricing Decisions** Product: Meaning and Classification - Product Mix –Branding- Brand Decisions–PackagingandLabelling–ProductSupport-ProductLife Cycle - New Product Development -Pricing Objectives - Pricing Policies and Strategies – Pricing of New Products	16
IV	**DistributionandPromotion Decisions** Channels of Distribution: Meaning and Importance - Wholesaling and Retailing – Promotional Methods – Promotion Mix – Advertising: Objectives, Characteristics and Types of Advertising Mediums - Publicity – Personal Selling: Importance and Process - Sales Promotion and Distinctive Characteristics.	14
V	**ModernMarketing Techniques** Modern Marketing-– Direct Marketing– Social Marketing-Relationship Marketing– E- Marketing - Green Marketing –Marketing of Industrial and Consumer Products –Marketing of Services–MarketingofAgriculturalProducts–MarketInformation System(MIS).	15
	Total	**75**

CourseOutcomes		**Programme Outcome**
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandtheClassificationofMarketsandMarketing Functions	PO1,PO2
2	Analyzethebuyingbehaviour,BuyingDecisionProcessand Understand Basic Theories, Consumer Protection Act, Product Differentiation and Marketing Mix.	PO2,PO3
3	UnderstandtheconceptofProductMix,Productlifecycle, PricingPoliciesandPricingof NewProducts.	PO1,PO2
4	DescribetheChannelofDistribution,Wholesaling,Retailing, Salespromotionand theirdistinctive characteristics.	PO1,PO2
5	EvaluatetheconceptsofModernMarketingandElements.	PO1, PO2,PO3

Textbooks	
1	Dr.RajanNair.(2020),Marketing,SultanChandandSons.
2	PhilipKotler,(2016),Marketing:AnIntroduction,AsiaPacificHoldingPrivate Limited
3	Karunakaran K(2011)MarketingManagement(TextandCasesinIndian Context), HimalayaPublishingHouseMumbai
4.	SeemaGupta(2022) DigitalMarketing3rd EditionMcGrawHill
5.	GaryM.Armstrong,StewartAdam,SaraMarionDenize,MichaelVolkov,PhilipKotler, ―Principles of Marketing‖, Pearson, 2017
ReferenceBooks	
1.	Pillai,R.S.NandBhagvathi(2010),ModernMarketingPrinciplesandPractices.S Chand&CoLtd.,
2.	Dr.C.B.Gupta,Dr.N.RajanNair(2020),MarketingManagement,SultanChand &Sons.
3.	Varshney,R.Land B.Bhattacharyya(2022),InternationalMarketingManagement, SultanChandandSons.
4.	Dr.C.B.Mamoria, Pradeep Jain, Priti Mitra,(2013)Theory and Practice of Marketing,KitabMahal
5.	SheenaIyengar(2011)TheArtofChoosing,LittleBrown BookGroup
WebResources	
1.	https://marketingland.com
2.	https://www.worldsupporter.org/en/chapter/41634-summary-principles-marketing-kotler
3.	https://mailchimp.com/marketing-glossary/marketing-mix-7ps/
4.	https://www.linkedin.com/learning/paths/become-an-online-marketing-manager
5.	https://www.wordstream.com/learn

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3
CO 4	2	3	3	3	2	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	15	14	15	14	14	14	15
Weighted percentage of coursecontribution to POS	2.8	3.0	2.8	3.0	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	2	3	2	2
CO2	3	2	3	3	2
CO3	3	3	3	2	3
CO4	3	2	3	2	3
CO5	3	3	2	2	2
Weightage	15	12	14	11	12
Weightedpercentageof CourseContribution to PSOs	3	2.6	2.8	2.2	2.4

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-III

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	ECONOMICS OFTOURISM	**Generic Elective–III**					3	4	25	75	100

LearningObjectives	
C1	Tofamiliarisestudentswiththebasicconceptsof Tourism.
C2	Toprobethetourism demandforecastingandits methods
C3	Toanalysetheimpactoftourismanditsrelated aspects
C4	Tounderstandthe contributionoftheTourismIndustry
C5	Toexaminethevariousinternationalorganisationsin Tourism.

UNIT	Contents	No. of Hours
I	**Introduction** Introduction – Economics, and Tourism - Tourism Demand - Theoretical background - Types of Tourism Demand -Determinants of Tourism Demand	15
II	**TourismDemand** Tourism Demand Forecasting - Methods of Forecasting – Publicand Private Sectors in Tourism - the Need for Public and Private Sector Co-operation in Tourism – Growth of Tourism Demand in India.	15
III	**TourismImpacts** Impact of Tourism - Economic Aspects - the Multiplier Effect - Displacement Effect and Tourism - Tourist Spending - Costs and Benefits of Tourism to Community - Environmental Aspects – Contingency Valuation Method	15
IV	**TourisminIndia** Major tourism circuits of India: Inter-State and Intra-State – Heritage Tourism – Wild life Tourism and Eco Tourism – Tourism in Tamil Nadu.	15
V	**TourismOrganizations** Role and Functions of World Tourism Organization (WTO),Pacific Asia Travel Association (PATA), World Tourism &Travel Council (WTTC) - Ministry of Tourism, Govt. of India, ITDC, Department of Tourism, Government of Tamil Nadu TTDC – IHA- IATA-TAAI- IATO.	15
	Total	**75 hours**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Describetheimportance of Tourism	PO1,PO2
2	Understandvariousmethodsto calculatedemandfortourism	PO1, PO3,PO4
3	Analysetheimpact of Tourism	PO1,PO2
4	Knowthe variousTourist circuitsinIndia	PO6, PO8
5	Learntheroleof Organisationsintourism development	PO1,PO2,PO8
Textbooks		
1	StephenBall(2007),EncyclopaediaofTourismResourcesin India,B/H.	
2	ManojDixit(2002),TourismProducts,NewRoyalBookCo.Lucknow	
3	VanhoveandNorber,―TheEconomicsofTourismDestinations‖,T&FIndia,2010	
4	MikeJ.Stabler,AndreasPapatheodorou,M.TheaSinclair,―Economicsof Tourism‖,Talyor&Francis,2009	
5	YongChen,―EconomicsofTourismandHospitality:AMicroApproach‖,Talyor&Francis, 2021	
ReferenceBooks		
1.	BhatiaA.K(2020)TourismDevelopment:PrinciplesandPracticesSterling PublishersPrivateLimited	
2.	MishraP.K(2018)TourisminIndia:Potential,ProblemsandProspects(2018)New CenturyPublications	
3.	PrasannaKumar(2017) MarketingforHospitalityandTourismMcGrawHill Education	
4.	SnehaPathakandRiteshMishra(2019)MedicalTourismin India93-88797-49-8	
5.	Geetanjali(2010)TourismManagementABDPublishers	
WebResources		
1.	https://www.unwto.org/	
2.	https://itdc.co.in/	
3.	https://tourism.gov.in/	
4.	https://www.traveldailymedia.com/importance-of-travel-website-for-the-travel-company/	
5.	https://www.oecd.org/cfe/tourism/	

SECONDYEAR-SEMESTER-III

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	ENTREPRENEURIAL ECONOMICS	**SEC-4**					1	1	25	75	100

LearningObjectives	
C1	Todescribesthefactorsinfluencingentrepreneurship
C2	Toknowthe varioustheories ofmotivation andits advantages
C3	To Identifytheopportunitiestocreatevalueforothers
C4	Toevaluatethecreativityand entrepreneurship.
C5	Toanalysethesourcesoffinance for business.

UNIT	Contents	No.of Hours
I	**Introduction** Entrepreneurship:MeaningandImportance-Evolutionofterm ‗Entrepreneurship' - Factors influencing Entrepreneurship: Psychological, Social, Economic and Environmental - Characteristics of an Entrepreneur - Types of Entrepreneurs- New Generations of entrepreneurship - Barriers to entrepreneurship	15
II	**EntrepreneurialMotivation** Motivation: meaning and Definition – Theories of Motivation: Maslow‘s, Herzberg‘s, McGregor‘s and Achievement Theory - Culture & Society - Values / Ethics – Risk-taking behaviour	12
III	**Creativityand entrepreneurship** Creativityandentrepreneurship-StepsinCreativity-Innovation andinventions-LegalProtectionofinnovation-Skillsofan Entrepreneur-DecisionmakingandProblemSolving(Stepsin Decision Making)	18
IV	**Sourcesof Finance** Sources of Finance: Long term Sources -Equity Shares, Preference Shares and debentures- Kinds Private Placements- IPO-SEBI- FDI-Institutional Finance - Banks - IDBI, IFCI, IIBI, ICICI, SIDBI, SFCs in India - Merchant Banks in India - NBFCs in India	15
V	**Rulesand Legislation** Industries Development (Regulations) Act, 1951 - Factories Act 1948 - The Industrial Employment (Standing Orders) Act - Environment(Protection)Act,1986-TheSaleofGoodsAc,1950-IndustrialDisputesAct1947	15
	Total	**75 hours**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Explaintheimportanceandfactorsinfluencing entrepreneurship	PO1,PO2
2	Understand andapplyentrepreneurial theoryusinglean start-up principles.	PO1,PO2
3	Recognizeandevaluate Creativityandentrepreneurship	PO1, PO4
4	UnderstandtheVarioussources of Financeavailable for entrepreneur	PO1
5	KnowtheApplicabilityof Legislationand Rules	PO6

Textbooks	
1	Desai,V.(2009).DynamicsofEntrepreneurialDevelopmentandManagement. HimalayaPublishingHouse.
2	Srinivasan,N.P.,&Gupta,G.P.(2001).EntrepreneurialDevelopment‖.*Sultan* ChandandSons,NewDelhi
3	Simon.CParker,―TheEconomicsofEntrepreneurship‖,CambridgeUniversity Press,2009
4	K.Glancey,R.McQuaidandJoCampling,―Entrepreneurialeconomics‖, PalgraveMacmillan UK, 2000
5	Akland Alexander Tabarrok, ―Entrepreneurial Economics‖, Oxford University Press, 2002

ReferenceBooks	
1.	Glancey,K.,McQuaid,R.,&Campling,J.(2000),EntrepreneurialEconomics. London:Macmillan.
2.	Casson,M.,&Buckley,P. J.(2010).Entrepreneurship,EdwardElgar Publishing.
3.	Parker,S.C.(2018). TheEconomicsofEntrepreneurship.CambridgeUniversity Press.
4.	Harper, D. A. (2003).Foundations of Entrepreneurship and Economic Development.Routledge
5.	Khanka,S.S.(2006). EntrepreneurialDevelopment. S. ChandPublishing.

WebResources	
1.	https://www.startupindia.gov.in/
2.	https://www.ediindia.org/
3.	https://skillindia.gov.in/
4.	https://www.startupindia.gov.in/
5.	https://indianstartups.com/

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	14	15	15	14	14	15
Weighted percentage of coursecontribution to POS	3.0	2.8	2.8	3.0	3.0	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	2	2
CO2	2	2	3	3	2
CO3	3	3	3	3	2
CO4	2	2	2	2	2
CO5	2	2	3	2	3
Weightage	11	11	14	12	11
Weightedpercentageof CourseContribution to PSOs	2.2	2.2	2.8	2.6	2.2

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER–III-SKILLENHANCEMENTCOURSE-4

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	2	3	2	3	3	3	3	3
CO 3	3	3	3	3	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	15	14	15	15	14	14	15
Weightedpercentage of course contribution to POS	2.8	3.0	2.8	3.0	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	2	3	2
CO3	3	2	2	3	3
CO4	3	3	3	3	2
CO5	2	2	2	2	2
Weightage	14	13	12	14	11
Weighted percentage of CourseContributiontoPSOs	2.8	2.6	2.2	2.8	2.2

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-III

	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	EVENT MANAGEMENT	**SEC-5**					2	2	25	75	100

LearningObjectives	
C1	Toequipstudentsonthevarious facetsofEventManagement.
C2	Toprovidestudentsevent managementasa careeroption.
C3	Tounderstandthecommitteesinmanagingeventsanditssafety
C4	Tolearnaboutcelebritymanagement
C5	ToknowtheeventmanagementinIndiaanditsoperations

UNIT	Contents	No. of Hours
I	**Introduction** EventManagement–Definition–objectives–Classificationand Types of Events- Career Options	15
II	**EventManagementStrategy** P**rocess -**Target Audience –Creativity - Purpose – Costs -Event Budget-Network with Suppliers- Creation of Social Media Accounts	15
III	**CommitteesinManagingEvents** Organising Committee- Event Scheduling -Venue Selection-Recruitment of Event Staff-Event Safety-Emergency Planning and Checklist	15
IV	**CelebrityManagement** Issues and Challenges -Cost Management and Budget – Confidentiality- Crowd Management	15
V	EventManagementIndustryinIndia-LeadingEventManagement Companies	15
	Total	**75**

Course Outcomes		ProgrammeOutcomes
CO	OnCompletion of thecourse,students will	
1	Understandthegrowingimportanceof event industry	PO1, P02
2	Analysethe processinvolved inthe event managementindustryandcareer Options	PO2, PO3
3	GainKnowledgeon the various Committees involved	PO1,PO2,PO3
4	Reviewhowtomanage celebrities	PO2, PO6
5	ExaminetheGrowthprocessofevent Management industry in India	PO1, P02, PO6
Textbooks		
1	LynnVanDerWagen&BrendaRCarlosEventManagement	
2	BhavanaChaudhariDr.Hoshi Bhiwandiwalla(2019)Abookof Event ManagementKindleEdition,NiraliPrakashan Publishers	
3	AlexGenadinikEventplanning-management&marketingforsuccessfulevents, Alex Genadinikpublisher2015	
4	CharlesBladen,JamesKennell,EmmaAbsonandNickWilde,―Events Management: An Introduction‖,Talyor and Francis, 2017	
5	BernadetteQuinn,―KeyConceptsinEventManagement‖,SagePublication, 2013	
ReferenceBooks		
1.	AbhijeethBhattacharje(2020)EventManagement:AzeroInvestmentStartup BusinessKindle Edition	
2.	WilliamO'Toole(2021)EventsFeasibilityandDevelopment From Strategy to Operations Routledge	
3.	JuliaRutherfordSilvers,WilliamO'Toole(2020)RiskManagementforEvents, Routledge	
4.	Anukrati Sharma,Shruti Arora(2018)EventManagementandMarketing:Theory, PracticalApproachesand Planning,.BhartiPublications	
5.	Allen,J.etal.,2011.Festival&Specialeventmanagement.5thedition.John Wiley&Sons:Brisbane	
WebResources		
1.	https://www.careerlauncher.com/rbi-grade-b/wto/	
2.	https://www.uou.ac.in/sites/default/files/slm/HM-402.pdf	
3.	https://www.bizzabo.com/blog/event-planning-websites/	
4.	https://www.tantraa.net/	
5.	https://eventplanningblueprint.com/	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	2	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	2	3
CO 5	2	2	3	3	3	2	3	3
Weightage	14	13	15	15	14	14	14	15
Weighted percentage of course contributionto POS	2.8	2.6	3.0	3.0	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	1	1	1	1	2
CO5	2	2	2	2	2
Weightage	9	9	9	9	10
Weightedpercentageof CourseContributionto PSOs	1.8	1.8	1.8	1.8	2

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-IV

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	MACRO ECONOMICS–II	**Core-VII**					4	5	25	75	100

LearningObjectives	
C1	Toanalysethe IS-LMmodelandits shifts
C2	Toprobethemacro economicvariables andbusiness cycle
C3	Totracethemacroeconomictheoriesandanalyze themacroeconomic policies.
C4	Tounderstand themonetarypolicyand itsinstruments.
C5	Toknowthe fiscal policyand its instruments.

UNIT	Contents	No. of Hours
I	**IS-LMModel** Investment and Interest Rate – Money Demand, MoneySupply andthe interest rate – Derivation of IS and LM Curve – Shifts in IS Curve and Shifts in LM Curve.	15
II	**Business Cycles** Phases of Business Cycles – Macroeconomic Variables and Business Cycles – Classical Theory and Business Cycles – Hawtrey, Von Hayek, Schumpeter Hicks, Kaldor and Samuelson Models – Keynesian theory of Business Cycles	15
III	**Monetary Policy** Money - Functions of Money - Money Supply and Money Demand – Classical Dichotomy – Keynesian theory of Money Demand –Instruments of Monetary Policy-IS-LM Model and Monetary Policy	15
IV	**FiscalPolicy** Fiscal Policy -Instruments- Classical and Keynesian Theory of Fiscal Policy– Fiscal Expansion – IS-LM Model and FiscalPolicy – Critique of Fiscal Policy – Three Ranges in LM Curve.	15
V	**SupplySide Economics** RationalExpectationHypothesis–NewClassicalSchool–Contribution of Robert Lucas – New Keynesian School.	15
	Total	**75 hours**

Course Outcomes		Programme Outcome
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandtheIS-LMModel.	PO1,PO2
2	Learntheoperationoftheoriesof Business Cycles.	PO2,PO3
3	AnalyzethecomponentsofMoneySupplyandDemand.	PO3,PO4
4	EvaluatetheeffectivenessofFiscalPolicy.	PO3,PO4
5	UnderstandSupplySideEconomics.	PO1,PO2

Textbooks	
1	MankiwGregory(2017)PrinciplesofMacroeconomicswithcoursemate,Books ExpressPublications.
2	Rudiger Dornbusch, FischerStanely, and Richard Startz (2000), Macro Economics,tataMcGraw-Hillpublishingcompany,NewDelhi
3	AndrewB.AbelandBen S.Bernanke, MacroEconmics,PearsonEducation,Inc., 7th Edition, 2011.
4	VaishM.C.(2003)MacroEconomicTheory,S.Chand &CompanyLtd New Delhi
5	PaulKrugmanandRobinWells(2015)MacroeconomicsWorthPublisher

ReferenceBooks	
1.	AhujaH.L,(2016)Macroeconomics:TheoryandPolicy.S. Chand
2.	Mueller, M.G. (Ed.)(1978), Readings in Macro Economics, Surjeet Publications, New Delhi
3.	RogerE.A.Farmer(2002),MacroEconomics,ThompsonAsiaPvt.Ltd., Singapore
4.	Parkin,M., 2014.Macroeconomics11thEditionEssex: Pearson Blanchard,OlivierandDavidR.Johnson(2013)Macroeconomics,Pearson.
5.	SoumenSikdar,―PrinciplesofMacroeconomics‖,OUPIndia,2020

WebResources	
1.	https://tradingeconomics.com
2.	https://www.bu.edu/econ/files/2014/08/DLS1.pdf
3.	https://www.imf.org
4.	https://www.aeaweb.org/resources/students
5.	https://www.worldbank.org/en/topic/macroeconomics

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	2	3	3	3
CO 4	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	15	14	15	15	14	14	15
Weighted percentage of course contributionto POS	3.0	3.0	2.8	3.0	2.8	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	2
CO2	3	3	3	2	2
CO3	3	3	3	3	2
CO4	3	2	3	2	3
CO5	3	3	2	3	3
Weightage	15	14	13	12	12
Weightedpercentageof CourseContributionto PSOs	3	2.8	2.6	2.4	2.4

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-IV

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	INDIAN ECONOMY	**Core-VIII**					4	5	25	75	100

LearningObjectives	
C1	Tounderstandthefeaturesandissuesof Indian economyandneweconomicpolicy
C2	Toanalysethe nationalincome, povertyand humandevelopment anditsmethod
C3	Toequipconceptualfoundationsandmacroeconomicconceptsof IndianEconomy
C4	TodescribetheTrendsinProductionandProductivityin Agriculture
C5	ToknowtheimportanceofForeignTradefor aDevelopingEconomy

UNIT	Contents	No.of Hours
I	**IntroductiontoIndianEconomy** Features and Issues of Indian Economy - Planned Economic Development in India - Achievements and Failures of Planning in India – Economic Crisis and Rationale behind Economic Reforms – New Economic Policy (LPG) 1991 – NITI Aayog	15
II	**National Income, Poverty and Human Development Index** NationalIncome–SectoralContributionsandEconomicTransition in India – Poverty and Inequality – Definition and Estimates, Gini Coefficient, Sen Index, Poverty Line - Income and Regional Inequalities: Causes and Measures, Unemployment: Nature and Extent,Measures–HDI– InternationalComparisons.	15
III	**Sectorsof theIndian Economy** Indian Agriculture – Trends in Production and Productivity – Land Reforms – Green Revolution - Agricultural Pricing - Agricultural Marketing – Food Security - Industrial Development – Trends and Problems, MSMEs – Industrial Policy 1991 and Recent Developments-OverviewofServiceandFinancialSectorsinIndia– Importance–ExpansionofPrivateBanks.	14
IV	**Foreign Trade** Importance of Foreign Trade for a Developing Economy- CompositionandDirectionofIndia‘sForeignTrade-RoleofFDI and Foreign Institutional Investors- BOP Crisis - India‘s Trade Policy.	16
V	**FiscalFederalism** Principles of Federal Finance – Fiscal Federalism in India –Functions and Sources of Revenue – Vertical and Horizontal Imbalances– FinanceCommission–Reportsandits Recommendations.	15
	Total	

Course Outcomes		**ProgrammeOutcome**
CO	Oncompletionofthiscourse,studentswill	
1	OutlinethenatureoftheIndianEconomyandhighlight the changes	PO1,PO2
2	Discuss the major issues of Poverty, Inequality, Unemployment,andHumanDevelopmentinIndiain comparisontoother countries	PO6, PO8
3	Provideaqualitativeandquantitativeoverviewof differentsectorsoftheIndianEconomy	PO1,PO2,PO3
4	DescribethecomponentsofForeignTradeandanalyze India‘sBalanceofPayments	PO1,PO2,PO3
5	Identifyvariouscomponentsof fiscalfederalisminIndia	PO1,PO2
Textbooks		
1	GauravDattandAshwaniMahajan―DattandSundaram‘sIndianEconomy‖ S.Chand72nd Edition.	
2	KaushikBasu (Ed.)(2012),OxfordCompaniontoIndianEconomy,3rd Edition, OUP,NewDelhi.	
3	RameshSingh,―IndianEconomy‖,McGrawHill,2022	
4	Sanjiv Verma,―TheIndianEconomy‖,UniquePublication,2022	
5	Dr.V.CSinha,―IndianEconomyPerformance andPolicies‖,SBPD Publications,2021	
ReferenceBooks		
1.	Puri.V.K&S.K.Misra(2022) Indian Economy	
2.	UmaKapila(Ed.)(2018)Indian EconomySinceIndependence	
3.	Byres,T.J.(Ed.)(1997),TheState,DevelopmentPlanningandLiberalizationin India, OxfordUniversityPress,New Delhi	
4.	AshimaGoyal(Ed.)TheOxfordHandbookoftheIndianEconomyinthe21st Century:UnderstandingtheInherentDynamism,OxfordUniversityPress	
5.	K.R.Gupta,J.R.Gupta,―IndianEconomy‖,Altanic,2008	
WebResources		
1.	http://www.niti.gov.in/	
2.	https://www.rbi.org.in/	
3.	https://hdr.undp.org/	
4.	https://www.india.gov.in/	
5.	https://www.cmie.com/	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	2	3	3	3
CO 4	3	2	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	14	15	15	14	14	15
Weighted percentage of coursecontribution to POS	3.0	2.8	2.8	3.0	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sandCO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	2	3	1
CO2	3	3	2	3	2
CO3	2	3	2	3	3
CO4	2	3	3	3	3
CO5	1	3	3	3	2
Weightage	10	15	12	15	11
Weightedpercentageof CourseContributionto PSOs	2	3	2.4	3	2.2

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-IV

<table>
<tr><th rowspan="2">Subject Code</th><th rowspan="2">SubjectName</th><th rowspan="2">Category</th><th rowspan="2">L</th><th rowspan="2">T</th><th rowspan="2">P</th><th rowspan="2">S</th><th rowspan="2">Credits</th><th rowspan="2">Inst. Hours</th><th colspan="3">Marks</th></tr>
<tr><th>CIA</th><th>External</th><th>Total</th></tr>
<tr><td></td><td>RESEARCH METHODSIN ECONOMICS</td><td>Generic Elective-IV</td><td></td><td></td><td></td><td></td><td>3</td><td>4</td><td>25</td><td>75</td><td>100</td></tr>
<tr><td colspan="12">LearningObjectives</td></tr>
<tr><td>C1</td><td colspan="11">Tounderstandthemeaningandsignificancecharacteristicsofscientificresearch</td></tr>
<tr><td>C2</td><td colspan="11">Toknowtheformulation,selectionofresearchproblemandcollectionofreviews</td></tr>
<tr><td>C3</td><td colspan="11">Toapplythe variousresearch designinthesocialscienceresearch</td></tr>
<tr><td>C4</td><td colspan="11">Toenumeratethe data andsamplingmethods</td></tr>
<tr><td>C5</td><td colspan="11">Todiscuss thereport writingtechniquesandits procedures</td></tr>
<tr><td>UNIT</td><td colspan="8">Contents</td><td colspan="3">No. of Hours</td></tr>
<tr><td>I</td><td colspan="8">Introduction
Research: meaning and significance Characteristics of Scientific Research - Type of Research: Pure, Applied, Analytical, Exploratory, Descriptive, Surveys, Case-Study - Limitations of SocialScienceResearch-RoleofComputerTechnologyIn Research.</td><td colspan="3">15</td></tr>
<tr><td>II</td><td colspan="8">ResearchProblemandReview of Literature
Research Problem: formulation and selection - necessity of defining the problem – Review of literature: Primary and Secondary Sources - importance of literature review in defininga problem - identifying gap areas from literature and research database.</td><td colspan="3">15</td></tr>
<tr><td>III</td><td colspan="8">ResearchDesign
Research Design: Concept and Importance in Research – Features of a Good Research Design – Exploratory Research Design–DescriptiveResearchDesign–ExperimentalDesign: ConceptofIndependent &Dependentvariables.</td><td colspan="3">12</td></tr>
<tr><td>IV</td><td colspan="8">DataandSampling Methods

Data types: Qualitative and Quantitative - Sources of Primary and secondary data - Census - Sampling Methods: Probability and Non-Probability Sampling Methods - Sampling and Non-Sampling Errors</td><td colspan="3">15</td></tr>
<tr><td>V</td><td colspan="8">HypothesisandReportWriting
Hypothesis:TypesofHypothesis-NullandAlternative Hypothesis-ParameterandStatistic-TypeIandTypeIIErrors
-Levelof SignificanceandCriticalRegion- ReportWriting- Types and Principles of writing the Research Report</td><td colspan="3">18</td></tr>
<tr><td></td><td colspan="8">Total</td><td colspan="3">75 hours</td></tr>
</table>

Course Outcomes		**ProgrammeOutcomes**
CO	Oncompletionofthiscourse,studentswill	
1	Understandtheoverview ofSocialScience Research.	PO1, PO2,PO4
2	AnalyzetheResearchProcess	PO1, PO2,PO4
3	Develop the Statistical Analysis to test EconomicTheoryand address PolicyIssues	PO3,PO4
4	Knowthe samplingmethods inResearch.	PO1,PO2
5	ExplainthehypothesistestingandPrinciples ofReport Writing.	PO2,PO3, PO4
Textbooks		
1	Krishnaswamy,O.R.(1993)MethodologyofResearchInSocialSciences, Himalaya publishing House.	
2	Kothari,C.R.(2004).Research Methodology:Methodsandtechniques.New Age International.	
3	VinodChandra,AnandHareendran,―Researchmethodology‖,Pearson,2017	
4	R.Pannerselvam,―ResearchMethodology‖,PHIlearning,2014	
5	Ranjit Kumar,―ResearchMethodology‖,SagePublication,2010	
ReferenceBooks		
1.	Taylor,B.,Sinha,G.,&Ghoshal,T.(2006).Researchmethodology:Aguideto forresearchers in management and socialsciences. PHILearningPvt.Ltd..	
2.	Bhandarkar,P.L.,Wilkinson,T.S.,&Laldas,D.K.(2010).Methodology& TechniquesofSocialResearch. HimalayaPublishingHouse	
3.	Kumar,A. (2002). Research methodologyin social science. Sarup&Sons	
4.	Daniel,P.S.,&Sam,A.G.(2011).Researchmethodology.GyanPublishing House	
5.	Ethridge,D.(2004).Researchmethodologyinappliedeconomics:organizing, planning,and conductingeconomicresearch,Blackwellpublishing	
WebResources		
1.	http://ignou.ac.in	
2.	http://egyankosh.ac.in	
3.	https://www.educba.com	
4.	https://research.com/research/how-to-write-research-methodology	
5.	https://www.questionpro.com/blog/what-is-research/	

MappingwithProgrammeOutcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	15	14	15	15	14	14	15
Weighted percentage of course contributionto POS	3.0	3.0	2.8	3.0	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	2	2	2	2	1
CO2	2	2	2	2	3
CO3	3	3	2	3	3
CO4	1	2	2	3	3
CO5	2	2	1	2	3
Weightage	10	11	9	12	13
Weightedpercentageof CourseContribution to PSOs	2	2.2	1.8	2.4	2.6

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER–IV

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	HEALTH ECONOMICS	**Generic Elective-IV**					3	4	25	75	100

LearningObjectives	
C1	Tounderstand theimportanceofhealth sectorin economicdevelopment
C2	Toevaluatethe components ofdemand and supplyofhealth care
C3	ToUnderstandtheimportanceofHealthIndicators.
C4	Toevaluatethe components ofDemandof Healthcare.
C5	Toexaminethe reviewtheexistingHealthInfrastructure.

UNIT	Contents	No. of Hours
I	**IntroductiontoHealthEconomics** Health and Economic Development - Determinants of Health - Health Indicators – Birth Rate – Fertility – Morbidity –Mortality – IMR – CMR – MMR – Disability Adjusted Life Year(DALY)–SexRatio-QualityAdjustedLifeYear(QALY) -AmartyaSen‘sCapabilityApproach.	15
II	**DemandforHealthCare** Demand for Health Care Services – Preference for Health Care using Indifference Curves – Budget Constraints – Income and Price Effects for Health Care – Elasticity of Demand forMedical Care.	15
III	**SupplyofHealthCare** Supply of Health Care Services – Physicians and Medical Personnel as Health Care Providers – Non Labour Inputs – Hospitals – Interaction of Demand and Supply of Health Care.	15
IV	**HealthInfrastructure** Health Infrastructure – Rural – Urban –Government Programmes-Preventive,PromotiveandCurativeHealthCare Services-HealthAllocationinBudget	15
V	**HealthServicesandMedicalInsurance** Health Insurance -Types of Insurance Policies in India- Medical Ethics -Medical Tourism.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandtheimportanceofHealthIndicators.	PO1,PO2
2	EvaluatethecomponentsofDemandof Healthcare.	PO3,PO6,PO8
3	Analyzethe importance ofSupplyofHealthcare Services.	PO2,PO6,
4	Review the ExistingHealth Infrastructure and Budget Allocation.	PO1,PO2,PO8
5	TracethegrowthofMedicalTourisminIndiaandunderstand theneedforHealthInsurance.	PO1,PO2, PO3,PO4

Textbooks	
1	XamerMartinezGiralt(2010),―PrinciplesofHealthEconomics‖,Routledge, 2010
2	Banerjee, D.(1975),socialandCulturalFoundationsofHealthService Systems ofIndia, Inquiry,SupplementtoVol.XII,June1975
3	JayBhattacharya,TimothyHydeandPeterTu,―HealthEconomics‖,Palgrave Macmillian,2014
4	PeterZweifel,Friedrich Breyer,Mathias Kifmann,―HealthEconomics,Springer BerlinHeidelberg,2009
5	BarbaraMcPake,CharlesNormand,CharlesE.M.Normand,―Health Economics:AnInternationalPerspective‖,Routlegde,2008

ReferenceBooks	
1.	HimanshuSekharRoutandPrasantKumarPanda(2010)HealthEconomicsin India
2.	EdwinG Dolan and John C Goodman
3.	D.Amutha(2016)―ATextbookofHealth Economics‖,Edition1,Mangalam PublishersandDistributers,Chennai.
4.	CharlesE.Phelps,HealthEconomics‖,Routlegde,2017
5.	JanAbelOlsen,―PrinciplesinHealthEconomicsandPolicy‖,OUPOxford,2017
WebResources	
1.	www.census.org
2.	www.NFHS.org
3.	www.NSSO.org
4.	https://tnhealth.tn.gov.in/
5.	https://tnhealth.tn.gov.in/

MappingwithProgramme Outcomes:

	PO 1	PO 2	PO3	PO4	PO5	PO6	PO 7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	2	3	3	3
CO 4	3	2	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	14	15	15	14	14	15
Weightedpercentageof course contribution to POS	3.0	2.8	2.8	3.0	3.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	3	1
CO2	2	2	2	2	2
CO3	2	3	2	3	2
CO4	3	3	3	3	2
CO5	3	3	2	3	3
Weightage	13	14	10	14	10
Weightedpercentageof CourseContributionto PSOs	2.6	2.8	2	2.8	2

Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-IV

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	BASIC ACCOUNTANCY	**SEC-6**					2	2	25	75	100

LearningObjectives	
C1	Toprovideanunderstandingon thebasic conceptsinFinancial Accounting
C2	Toequippedwithbasicknowledgeabout Tally.
C3	TodescribetheFinalAccountsand BalanceSheet Adjustment
C4	TounderstandthebankReconciliationStatement anditsuses
C5	To usethe TallySoftwareand itsapplications

UNIT	Contents	No.of Hours
I	**IntroductiontoAccounting** Definition – Objectives – Functions- Advantages andDisadvantages- Single Entry Book Keeping and Double - Entry Book Keeping.	15
II	**Accounting-BooksandRecords** Journal – Ledger- Subsidiary Book- Cash Book- Trial Balance – Meaning- Methods of Preparation – Errors- Classification of Errors- Rectification of Errors.	15
III	**Final Accounts** FinalAccounts-PreparationofTrading-ProfitandLossAccount- Balance Sheet (Simple Adjustments).	18
IV	**BankReconciliation Statement** BankReconciliationStatement–Need-Meaning-Methodof Preparation of Bank Reconciliation Statement	15
V	**Tally Software** Introduction to Accounting Package – Tally- Meaning, Features, Advantages, Data Entry, Formatting Data , Functional Keys and Simple Calculation- Tally: (**Theory for Exam)**	12
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandtheBasicConceptsofAccountingandprepareBook keeping.	PO1,PO3
2	MakeJournalandLedgerandCategorizethevarioussubsidiary booksofaccountsand identify&rectifyerrors	PO1,PO3
3	PrepareProfitandloss accountandBalanceSheet	PO1, PO2,PO3
4	TabulateBankReconciliationStatement.	PO2,PO3
5	ApplyTallySoftwarePackage inAccounting	PO3,PO8
Textbooks		
1	Reddy.T.SandHariPrasadReddy.Y(2013)FinancialandManagement AccountingMarghamPublicationsChennai	
2	Reddy.T.SMurthy(2012)FinancialAccountingMarghamPublicationsChennai	
3	RajniSofat,PreetiHiro,―BasicAccounting‖,PHI Learning,2010	
4	NishatAzmat,AndyLymer,―BasicAccounting‖,Mobius,2016	
5	JohnJ.Wild,BarbaraChiappetta,KenShaw,―FundamentalAccounting Principles‖, Mc Graw Hill, 2016	
ReferenceBooks		
1.	MukeshMahajan,P.S.Gills,V.P.SharmaandH.S.Punia(2001),Fundamentalsof Accountancy,UnistarBooks,Chandigarh.	
2.	SundeepSharma(2004)PrinciplesofAccounting,ShreeNiwasPublication, Jaipur	
3.	ShuklaM.C, T.S.GrawalandS.C.Gupta,(2018),AdvancedAccounts,S.Chand andCompany	
4.	MaheshwariS.NandSuneel.K.Maheshwari,(2018),FinancialAccountingVikas Publishing House.	
5.	GoyalV.KandRuchiGoyal,(2012),FinancialAccounting,PrenticeHallIndia LearningPrivateLimited.	
WebResources		
1.	https://www.accounting.com/resources/students/	
2.	https://icmai.in.	
3.	https://www.cipfa.org	
4.	https://www.accountingcoach.com/	
5.	https://www.youtube.com/watch?v=OItO9XwgHlI	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	2	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	14	14	15	14	14	15
Weighted percentage of course contributionto POS	3.0	2.8	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	2	1
CO2	2	2	3	2	2
CO3	3	2	3	2	2
CO4	2	2	3	2	2
CO5	2	2	3	2	2
Weightage	11	10	15	10	9
Weightedpercentageof CourseContribution to PSOs	2.2	2	3	2	1.8

S-Strong-3 M-Medium-2L-Low-1

SECONDYEAR-SEMESTER-IV

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	ModernBankingand Insurance	**SEC-7**					2	2	25	75	100

	LearningObjectives
C1	Todiscern themodern bankingand insurancecourse
C2	Toenablesthelearnersunderstandnew financialinstrumentsandbanking practices
C3	Toknowthe role ofinsurancein economicdevelopment
C4	Tounderstandtheinsurancecontractand risk management
C5	ToknowtheMajorInsuranceLegislationinIndiaanditsgrowth

UNIT	Contents	No.of Hours
I	**Banking** Commercial Banks- Functions of Commercial Banks- Private and Public Sector Banks- Credit Creation - Commercial Banks‘s role- Payment Banks- functions- Digital Banking-Tools – Methods	14
II	**CentralBanks** FunctionsofaCentralBank–ObjectivesofMonetaryPolicy– Effects and Limitations – Narasimhan Committee Report.	15
III	**IntroductiontoInsurance** Insurance: Meaning and Types- Role of Insurance in Economic Development -Saving and Investment Aspects – Social Vs Private Insurance: Life Vs Non-Life Insurance. Classification of Life, Health and General Insurance Policies.	16
IV	**InsuranceContractandRiskManagement** Meaningofcontract-InsurableInterest-Utmostgoodfaith-PrincipleofIndemnityandotherPrinciples-RiskManagement: Definition and Types- Management of Risk through Identification Analysis and Control.	15
V	**InsuranceBusinessinIndia** Major Insurance Legislation- Growth of Industry- Agricultural Insurance- Health Insurance- Reinsurance- Entry of Private Insurance Companies- Insurance Act. LIC Act, GIC Act. IRDA Act.	15
	Total	**75**

Course Outcomes		Programme Outcome
CO	Oncompletionofthiscourse,studentswill	
1	Recollectthefinancialtoolsandmethodsofbanking operations	PO1,PO2
2	Understandanddescribethecentralbankingoperations.	PO1,PO2
3	ExplainvarioustypesofinsurancesinPractice	PO1, PO4
4	Evaluatetheinsurancepoliciesandrecommendtheright policiesforuse.	PO1, PO2,PO4,PO7
5	Evaluatethemacrolevelimplicationsofthevariousinsurances.	PO1,PO3,PO8
Textbooks		
1	SrivastavaP.K.(2013),BankingTheoryandPractice,Himalaya Publishing House,NewDelhi	
2	Heffernan,S.(2005). ModernBanking.John Wiley&Sons	
3	Tyagi,C. L., &Tyagi,M.(2007).InsuranceLawandPractice. AtlanticPublishers & Dist.	
4	J.N.Jain,―ModernBankingandInsurance:PrinciplesandTechniques‖,Regal publications, 2008	
5	Prasada&RadhikaRao,―TrendsofModernBanking‖,BSPPublication,2016	
ReferenceBooks		
1.	FinsingerJ.andM.V.Pauly(Eds.)(1986),TheEconomicsofInsurance Regulation:ACrossNationalStudy,MacmillanLondon.	
2.	Sethi,J.,&Bhatia,N.(2012). ElementsofBankingandInsurance.PHILearning Pvt.Ltd..	
3.	Lewis,M.K.(1992).ModernBankinginTheoryandPractice.Revue Economique,203-227.	
4.	Tripathy,N.P.,&Pal,P.(2005).Insurance:Theoryandpractice.PHILearning Pvt.Ltd.	
5.	Muraleedharan,D.(2014). ModernBanking:TheoryandPractice.PHILearning Pvt.Ltd..	
WebResources		
1.	https://www.irdai.gov.in	
2.	https://rbi.org.in	
3.	https://www.studocu.com	
4.	https://www.indiapost.gov.in/Financial/Pages/Content/pli.aspx	
5.	https://licindia.in/	

MappingwithProgrammeOutcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	3
CO 3	3	3	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	15	14	14	15	14	14	15
Weightedpercentageofcourse contribution to POS	3.0	3.0	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	2	2
CO3	2	2	3	3	2
CO4	3	3	3	3	3
CO5	3	3	3	2	2
Weightage	14	14	15	13	11
Weightedpercentageof CourseContribution to PSOs	2.8	2.8	3	2.6	2.2

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-V

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	MONETARY ECONOMICS	**CoreIX**					4	5	25	75	100

	LearningObjectives	
C1	Tounderstandthetheoriesthatgovernsanditsapplication	
C2	Toexplains workingof theMonetarySystem anditsuses	
C3	ToknowtheRoleof CommercialBanksafter Nationalisationandits operations	
C4	Tocomparethemonetarism and Keynesianism	
C5	Toidentifythe roleof central banksand its operations	
UNIT	**Contents**	**No. of Hours**
I	**Money** Definition,functions,Importance-FormsofMoney-Supplyof Money (M1, M2, M3, M4)-Crypto Currencies.	15
II	**DemandforMoney** Demand for Money: Classical, Keynesian and Baumol's InventorytheoreticApproach-JamesTobin'sPortfolioApproach -MiltonFriedman'sReformulatedQuantityTheory.	15
III	**MonetarismVs Keynesianism** Monetarism Vs Keynesianism- Comparison- Determinants of Money Supply – Money Multiplier. Supply Side Policies of Inflation.	15
IV	**CommercialBanks** Commercial Banks - Credit Creation – Role of CommercialBanks after Nationalisation- RBI's role in Commercial Banks - Narasimhan Committee Report.	15
V	**MonetaryStabilityandCentralBank** Inflation and Deflation:Definition, Types, Causes and Effects-Demand-Pull and Cost-Push Inflation- Central Bank Functions - Reserve Bank of India (RBI) -MonetaryPolicyand its Operations in India.	15
	Total	**75**

Course Outcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	Acquireknowledgeof Moneyand its Functions.	PO1,PO2
2	Understandthe DemandforMoneyand its Determinants.	PO1,PO2
3	AcquireinformationonSupplyof Moneyandits Determinants.	PO1,PO2
4	UnderstandoperationsofCommercialBanks and MoneyMultiplier.	PO1,PO2,PO3
5	IdentifytheMonetaryPolicy Implications	PO1,PO2,PO8
Textbooks		
1	GuptaR.D.(1995),KeynesandPostKeynesianEconomics,KalyaniPublishers, New Delhi.	
2	JhinganM.L.(2004),MonetaryEconomics,KonarkPublication,NewDelhi.	
3	Jagdish Handa,―MonetaryEconomics‖,Talyor&Francis, 2008	
4	L.Blume,StevenDurlauf,―MonetaryEconomics‖,PalgraveMacmillan,2016	
5	KeithBain,PeterHowells,―MonetaryEconomics:PolicyandItsTheoretical Basis‖‖, Macmillan, 2009	
ReferenceBooks		
1.	VaishM.C.(2004),Money,BankingandInternationalTrade,NewAgeInternational (P) Ltd, New Delhi.	
2.	SundaramK.P.M.(1996),Money,bankingandInternationalTrade,Vikas,New Delhi.	
3.	BasilJ.Moore(1965),AnIntroductiontothetheoryofFinance,Oxford UniversityPress.	
4.	Sethi,T.T.(2003).MonetaryEconomics:S.ChandandCo.,New Delhi	
5.	Ghosh,B.N.andRamaGhosh.(1989).FundamentalsofMonetaryEconomics, HimalayaPublishingHouse,Mumbai	
WebResources		
1.	www.rbi.org.in	
2.	https://www.imf.org	
3.	https://www.oecd.org	
4.	https://www.bis.org/publ/work437.pdf	
5.	https://www.worldbank.org/	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	15	14	14	15	14	14	15
Weighted percentage of course contributionto POS	2.8	3.0	3.0	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	2	3	2	2
CO3	3	2	3	2	2
CO4	3	2	3	2	2
CO5	3	3	3	3	3
Weightage	15	12	15	12	11
Weightedpercentageof CourseContributionto PSOs	3	2.4	3	2.4	2.2

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-V

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	FISCALECONOMICS	**Core -X**					4	5	25	75	100

LearningObjectives	
C1	ToenablestudentstoacquireKnowledgeonthevariousfacetsofFiscal Economics.
C2	Toillustratesvarioustheoriesoffiscaleconomicsanditsapplications
C3	Todescribesthebudget processand featuresofa goodtax system
C4	Toanalysethe trendsinpublicexpenditureanddebt management
C5	ToevaluatetheBudgetoftheGovernmentof India,centralandstaterelation

UNIT	**Contents**	**No.of Hours**
I	**Introduction** Fiscal Economics: Nature, Scope, Objectives and Instruments -Major Fiscal Functions-MarketFailure:PublicGoodsandPrivateGoods,Externalities, EfficiencyVersusEquity-PrinciplesofFunctional Finance.	15
II	**TheoriesofFiscalEconomicsand Policy** Principle of Maximum Social Advantage -The Benefit Approach- The Ability-to- Pay Approach-Equal Sacrifice Principle- Fiscal Policy and its Instruments.	14
III	**Budgetand Taxation** Role of Government in a Modern Economy- Public Budget: Types and Structure - Taxation -Features of a Good Tax System- Direct and Indirect Taxes -Concept of Impact- Incidence and Shifting of Taxation-Elasticity and Determination of Tax Burden - Optimal Taxation.	16
IV	**PublicExpenditureandDebt** Public Expenditure: Canons and Classification -Wagner‘s Law of Public Expenditure- Public Debt: Meaning and Types, Burden of Public Debt- Principles of Public Debt Management– Deficit Financing.	15
V	**IndianPublic Finance** Budget of the Government of India (Previous Financial Year)-Sources of Public Receipts (Tax and Non-Tax, GST and its Impacts)-Components of Public Expenditure-Sources of Public Borrowing and Debt Liabilities-Deficits-Appraisal of FRBM Act 2004- Fiscal Federalism: Centre and State Relations -Finance Commission Recommendations of Last 3 years.	15
	Total	**75**

Course Outcomes		Programme Outcome
CO	Oncompletionofthiscourse,studentswill	
1	Understandtheimportanceand InstrumentsofFiscalEconomics.	PO1,PO2
2	EvaluatethePrinciplesand theoriesofPublicFinance.	PO2
3	AnalyzetheBudget,IndianTax Systemand Policy.	PO2,PO3
4	DescribeClassification,LawsofPublicExpenditureandPublic Debt.	PO1,PO2
5	KnowtheIndianPublicFinanceSystemandPolicy Recommendations.	PO1,PO3,PO7
Textbooks		
1	BhatiaH.L., (2012),PublicFinance,VikasPublications.	
2	TyagiB.PandH.P.Singh(2018)―PublicFinance‖JaiPrakashNath&Co,Meerut	
3	Dr.S.KSingh,―PublicFinanceintheoryandPractice‖,S.ChandPublishing,2008	
4	Lekhi,―PublicFinance‖,KalyaniPublishers,2015.	
5	Richard.A.Musgrave&PeggyB.Musgrave,―PublicFinanceinTheoryand Practices‖,McGrawHillInternationalEdition,NewYork,2006.	
ReferenceBooks		
1.	HarveyRosen, (2005),PublicFinance, SeventhEdition,McGrawHill Publications.	
2.	KaushikBasuandMaertens(Ed),(2013),TheNewOxfordCompaniontoEconomics in India, OxfordUniversityPress.	
3.	SuryM.M.,(1990),GovernmentBudgetinginIndia,Commonwealth Publishers.	
4.	AndleyandSundaram.(2004).PublicFinance,RatanPrakashan, Agra.	
5.	MuRajaJ.Chelliah,―FiscalPolicyinUnderdevelopedCountries‖,Allenand MoowbrayLimitedattheAldenPressOxford,II Edition,2012.	
WebResources		
1.	https://finmin.nic.in/	
2.	https://www.nipfp.org.in/	
3.	https://www.niti.gov.in/	
4.	https://www.gst.gov.in/	
5.	https://www.indiabudget.gov.in/	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	2	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	14	14	15	14	14	15
Weighted percentage of course contributionto POS	3.0	2.8	3.0	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	3	3	3
CO2	2	2	3	3	2
CO3	3	3	3	2	3
CO4	2	2	2	2	1
CO5	3	3	2	3	2
Weightage	13	13	13	13	10
Weightedpercentageof CourseContributionto PSOs	2.6	2.6	2.6	2.6	2

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-V

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	INDUSTRIAL ECONOMICS	**Core-XI**					4	5	25	75	100

	LearningObjectives
C1	TodiscusstheFeatures,PerformanceanddevelopmentissuesoftheIndian Economy
C2	Toanalysethevarioustheoriesof IndustrialLocation.
C3	Toknowthe licensingpolicies and industrial sickness
C4	TodescribethegrowthPatternsin IndianIndustrialSector.
C5	Toobservethetrends andprospects ofindustrialgrowthinIndia

UNIT	Contents	No.ofHours
I	**Introduction** Nature and scope of Industrial Economics - History of Industrial Revolution -Digital Revolution -Classification of Industries: PublicSector,PrivateSectorandPublicPrivatePartnerships- Large, MSMEs, Cottage Industries- Concept of Plant, Firm and Industry.	15
II	**Theoriesof Location** Theories of Industrial Location - Weber - Sargant Florence - Factors Affecting Location-Localization -Glocalization of Industries – Decentralization of Industries-Industrial Efficiency and Economic Efficiency- Measures of Concentration - Concentration ratio - Hirschman - Herfindahl Index.	16
III	**IndustrialLicensingand Policies** Industrial Licensing–MRTPAct–IndustrialPolicies-Industrial Productivity-CapacityUtilization-IndustrialSickness-Mergers andAcquisitions –Profitabilityand Efficiency.	14
IV	IndustrialRegionsoftheWorldandIndia-IndustrialClustersin India-SunriseSector-RegionalBackwardness-Government Initiatives.	15
V	**GrowthTrendsin India** Industrial Growth in India: Trends and Prospects – Incentives to Promote Industrialization – Ease of Doing Business Ranking - MNCs in India -Special Economic Zones- FDI Policy- Make in India Initiative- National Manufacturing Policy.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1.	UnderstandtheimportanceofIndustrial Economics	PO1,PO2
2.	Examinetheories ofindustrialLocation	PO2,PO3
3.	ReviewtherelevanceofIndustrialPolicies	PO1,PO2,PO3
4.	Describethe IndustrialbeltsoftheWorld and India	PO2,PO2
5.	Analysethe IndustrialTrendsinthe Indian Economy.	PO2,PO3

Textbooks	
1.	RanjanaSeth. (2010)IndustrialEconomicsAne‘sStudentEdition.
2.	BarthwalR.R(2007) IndustrialEconomicsAn IntroductoryTextbook,New AgeInternationalPublishers
3	DennisW.CarltonandJeffreyM.Perloff,ModernIndustrialOrganisation, CambridgeUniversityPress,2015
4	RajeshKumarR(2021)IndustrialEconomicsand ForeignTrade Jyothis Publishers
5	LouisPhilips,―AppliedIndustrialEconomics‖, Cambridge University Press,1998
ReferenceBooks	
1.	JohnWeiss(2011)TheEconomicsof IndustrialDevelopment,Routledge
2.	Kuchhal,S.C.IndustrialEconomyof India,Chaitanya PublishingHouse, Allahabad(1980)
3.	DhingraI.CandNitinDhingra(2013)IndustrialEconomicsBookAge Publications
4.	Martin,S.,(2001)Advanced IndustrialEconomics,2ndEdition,Wiley-Blackwell
5.	PaulBelleflameet.l―ThetheoryofIndustrialOrganisation-Marketsand Strategies‖,CambridgeUniversityPress,2012
WebResources	
1.	https://www.india.gov.in/topics/industries
2.	https://business.mapsofindia.com/india-industry
3.	https://dpiit.gov.in/
4.	https://dri.nic.in/
5.	https://msme.gov.in/

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	2	3	3	2	3	3	3
CO 4	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	15	15	15	15	14	15
Weighted percentage of course contributionto POS	3.0	2.8	3.0	3.0	2.8	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	3
CO2	3	3	2	2	3
CO3	3	3	2	3	3
CO4	2	3	2	3	3
CO5	3	3	2	3	3
Weightage	14	15	10	13	15
Weightedpercentageof CourseContributionto PSOs	2.8	3	2	2.6	3

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-V

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	ENVIRONMENTAL ECONOMICS	**Core-XII**					4	5	25	75	100

	LearningObjectives	
C1	Tounderstandthe theoreticalbasis ofEnvironmental Economics	
C2	Tochoosetherelevant economictools toimproveEnvironmental Quality	
C3	TodescribetheEnvironment asaPublic Goodand marketfailuretheories	
C4	Todoctrinethevarious methodsof environmentalvaluation andits uses	
C5	ToknowtheregulationofPollutionthroughEconomicInstruments	
UNIT	**Contents**	**No. of Hours**
I	**FundamentalsofEnvironmentalEconomics** Definition, Scope and Significance - Environment – Economy Linkages – Material Balance Approach - Malthusian andNeoclassicalperspectiveofEnvironment-SustainableDevelopment -Environment Kuznets Curve.	15
II	**EconomicsofNatural Resources** Classification of Natural Resources - Scarcity and Measurement - Economics of Exhaustible Resources - Economics of Renewable Resources.	15
III	**Market Failure** EnvironmentasaPublicGood-TragedyofCommons-Externalities-PigouvianFeeand Coase theorem on PropertyRights.	12
IV	**Valuation ofEnvironment** TotalEconomicValue-ContingentValuationMethod–StatedPreference-TravelCostModel-HedonicPricing-Economicsof SustainableDevelopment-GreenAccounting–EcologicalFootprint, Carbon Footprint, Ecological Shadow.	18
V	**Economicsof PollutionControl** OptimallevelofPollution-RegulationofPollutionthroughEconomic Instruments - Command and Control Approach.	15
	Total	

Course Outcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	Haveabetter understandingof Environment-EconomyLinkages.	PO1, PO2,PO5
2	Applyenvironmental concepts to Economic Theories.	PO2,PO3
3	Createeconomicpolicies incorporating EnvironmentalIssues.	PO5, PO7
4	Analysethemethods tovalue Environment Pollution.	PO2,PO3
5	Evaluatetheneed forreductionofPollution.	PO2,PO7

Textbooks	
1	Karpagam. M, (2017), Environmental Economics–Third Edition, SterlingPublicationPvt. Ltd,Noida.
2	NickHanley,JasonShogrenandBenWhite,(2013),IntroductiontoEnvironmental Economics,SecondEdition, OxfordUniversityPress, Oxford.
3	Eugine.TEnvironmentalEconomics,Oxford UniversityPress,NewDelhi. (2014),
4	HanleyN,ShogrenJF,WhiteB—EnvironmentalEconomicsinTheoryand Practice‖,2ndEdition.PalgraveMacmillan,2007
5	Kolstad,CharlesD,(2000),EnvironmentalEconomics,NewYork:Oxford UniversityPress,

ReferenceBooks	
1.	MaureenL.CropperandWallaceE.Oates,—EnvironmentalEconomics:ASurvey‖, JournalofEconomicLiterature,Volume30,1992,
2.	BarryC.Field,(1994)EnvironmentalEconomics:AnIntroduction,Singapore, McGraw-Hill,
3.	Hussen,Ahmed.M.(1999),PrinciplesofEnvironmentalEconomics:Economics, EcologyandPublicSector.London:Routledge.
4.	Dr.S.Sankaran(2012)EnvironmentalEconomicsMarghamPublications.
5.	MarkMaslin(2014)—ClimateChange:AVeryShortIntroduction3rdEdition Oxford UniversityPress.

WebResources	
1.	https://unfccc.int/
2.	https://www.undp.org/
3.	http://moef.nic.in/
4.	https://www.envis.nic.in
5.	https://www.unep.org

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	2	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	15	14	15	14	14	15
Weighted percentage of course contributionto POS	3.0	2.8	3.0	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	3
CO2	3	3	2	2	3
CO3	3	3	2	3	3
CO4	2	3	2	3	3
CO5	3	3	2	3	3
Weightage	14	15	10	13	15
Weightedpercentageof CourseContributionto PSOs	2.8	3	2	2.6	3

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-V

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	TAMILNADU ECONOMY	**Discipline Specific Elective - V**					4	5	25	75	100

LearningObjectives	
C1	TodiscusstheFeatures,PerformanceanddevelopmentissuesofTamilNadu Economy
C2	Toanalysethe agriculturalandindustrialscenario inTamilNadu
C3	Tounderstandtheindustrial scenariointamil naduandits growth
C4	Toknowthe general performanceofthe tamilnadu
C5	Todescribethestatefinancesanditsdevelopmentinitiatives

UNIT	Contents	No. of Hours
I	**Introduction** Tamil Nadu–Salient features–Geographical Features – Economicand Social Indicators –Human Development – Index Rank–Gender DisparityIndex–PovertyIndex–WorkParticipationRate–Unemployment Rate – Literacy Rate– Life Expectancy – Demography and Occupational Patterns.	15
II	**Agriculture** Agriculture–Land Use Patterns– Cropping Pattern–Irrigation - Agricultural Marketing – Defects and Remedial measures – Agricultural Finance – Policy and Issues –Crop Insurance.	16
III	**Industry** Industrial Scenario in Tamil Nadu – Production Trends––Large Industries- MSMEs –Khadi and Village Industries – Export Contributionoftop5MajorIndustries-IndustrialFinancial Institutions: TIIC, SIDCO, SIPCOT, Industrial Estates-DIC, EPZ, SPZ, SEZ.	14
IV	**StateFinancesandDevelopmentInitiatives** State Finance – Revenue and Expenditure of the State – Tamil Nadu's Recent Budget – Poverty Alleviation and Unemployment Programmes – Education and Health Care and State Welfare Programmes.	15
V	**GeneralPerformanceofthe State** TourismandMedicalTourism–WomenEmpowermentProgramme – Self Help Groups and Micro Finance-MahalirThittam - Environmental Protection Measures.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Understandsalientfeatures,Poverty,Unemploymentof Tamil Nadu Economy	PO1,PO2
2	ExaminetheIssuesin IndianAgriculture,LandUse Patterns, financeand Insurance	PO2,PO3
3	Graspthe IndustrialScenarioinTamilNadu	PO1,PO7 ,PO8
4	Describethestatusof StateFinancesandDevelopment ProgrammesofTamilNadu	PO2,PO3
5	AnalysetheoverallperformanceofTamilNaduEconomy.	PO3,PO7,PO8

Textbooks	
1	LeonardA.G,S.J,(2006),TamilNaduEconomy, MacmillanIndiaLtd,NewDelhi
2	NaganathanM(2002),TamilNaduEconomy:TrendsandProspects,(ed.),University ofMadras.
3	RajalakshmiN,(1999), TamilNaduEconomy,BusinessPublishers,Bombay.
4	Kuppusamy.K, ―Socio-EconomicDevelopment OfIndia, SharadhaPublications, 2014
5	S. Perumalsamy, ― Economic Development of Tamil Nadu‖,S.Chand & Company,1985

ReferenceBooks	
1.	VeeramaniA.R.,TamilNaduAgriculturalEconomy,Divyasre Publication,2015
2.	Manickam.S,(2010),TamilNadu–AnEconomicAppraisal,Departmentof EvaluationandAppliedResearch,PanoramaofIndianEconomy.
3.	MadrasInstituteofDevelopment Studies,(1988),Tamil Nadu Economy:Performance andIssues,OxfordandIBHPublishingCompanyPvt.Ltd.,NewDelhi
4.	KurienC.TandJamesJoseph(1979),―EconomicChangeinTamilNadu:A RegionallyandFunctionallyDisaggregatedStudy‖,AlliedPublishersPvt.Ltd.New Delhi.
5.	

WebResources	
1.	www.tn.gov.in
2.	http://tnenvis.nic.in/
3.	https://www.msmeonline.tn.gov.in/
4.	https://ctd.tn.gov.in
5.	https://www.tamilnadutourism.tn.gov.in

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	2	2	3	2	2	3	3	3
CO 4	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	14	14	14	15	14	14	15
Weighted percentage of course contributionto POS	2.8	2.8	3.0	2.8	2.8	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	3	3
CO2	3	3	2	3	3
CO3	3	3	3	3	2
CO4	3	3	2	3	3
CO5	3	3	2	3	3
Weightage	15	15	11	15	14
Weightedpercentageof CourseContributionto PSOs	3	3	2.2	3	2.8

S-Strong-3 M-Medium-2L-Low-1

<u>**THIRDYEAR-SEMESTER-V**</u>

<table>
<tr><th rowspan="2">Subject Code</th><th rowspan="2">SubjectName</th><th rowspan="2">Category</th><th rowspan="2">L</th><th rowspan="2">T</th><th rowspan="2">P</th><th rowspan="2">S</th><th rowspan="2">Credits</th><th rowspan="2">Inst. Hours</th><th colspan="3">Marks</th></tr>
<tr><th>CIA</th><th>External</th><th>Total</th></tr>
<tr><td></td><td>MANAGERIAL ECONOMICS</td><td>Discipline Specific Elective-V</td><td></td><td></td><td></td><td></td><td>3</td><td>5</td><td>25</td><td>75</td><td>100</td></tr>
<tr><td colspan="12" align="center">LearningObjectives</td></tr>
<tr><td>C1</td><td colspan="11">Todevelopanalytical andproblem-solvingskillsamongthe students.</td></tr>
<tr><td>C2</td><td colspan="11">ToenablestudentstoCapitalBudgetinganditsconcepts.</td></tr>
<tr><td>C3</td><td colspan="11">Tounderstandthecostcontrolsmeasuresanditsuses</td></tr>
<tr><td>C4</td><td colspan="11">ToknowtheDemand for Durable andNon-Durable Products</td></tr>
<tr><td>C5</td><td colspan="11">Tofamiliarizestudentsof PricingPoliciesanditsPractices.</td></tr>
<tr><th>UNIT</th><th colspan="8">Contents</th><th colspan="3">No. of Hours</th></tr>
<tr><td>I</td><td colspan="8">Introduction
Nature and Scope of Managerial Economics - Meaning - Characteristics– Importance–Role and Responsibilities of Managerial Economist – Basic Economic Tools in Managerial Economics.</td><td colspan="3">15</td></tr>
<tr><td>II</td><td colspan="8">Demand,CostandProfitAnalysis
Demand for Durable and Non-Durable Products, Demand Forecasting Techniques -Statistical and Non-Statistical Techniques -Cost Estimation - Cost-Volume-Profit Analysis (Break Even Analysis)- Objectives and Assumptions; Determination of Break Even Point, Limitations</td><td colspan="3">15</td></tr>
<tr><td>III</td><td colspan="8">PricingPoliciesand Practices
Objectives - Popular Pricing Methods and Strategies- Price Discounts and Differentials- Pricing by Manufacturers and Retailers- Price Forecasting.</td><td colspan="3">12</td></tr>
<tr><td>IV</td><td colspan="8">Capital Budgeting
Capital Budgeting: Need for capital budgeting- Different stepsin Capital Budgeting- - Appraisal Methods – Payback Method, Accounting Rate of Return, Net Present Value method, Internal Rate of Return Method, Cost–Benefit Method - Capital Rationing.</td><td colspan="3">18</td></tr>
<tr><td>V</td><td colspan="8">CostofCapital

Sources of Funds for Long Term Financing-Cost of DebtCapital -Cost of Preferred Stock -Cost of Equity Capital or Common Stock-Cost of Retained Earnings.</td><td colspan="3">15</td></tr>
<tr><td></td><td colspan="8" align="center">Total</td><td colspan="3">75</td></tr>
</table>

Course Outcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandtheMicroEconomicPrinciplesand applyingitinBusinessDecision.	PO1,PO2
2	ExaminetheconceptsofDemand,Cost and Profit	PO1,PO2
3	DetermineandanalysethevariousPricing Techniques.	PO2, PO3
4	AppraisetheProjectProposals	PO4,PO3
5	UnderstandthesourcesofFinancefor Business.	PO2, PO3
Textbooks		
1	VarshneyR.L.,andMaheshwariK.L.(1997),ManagerialEconomics,Sultan Chand,N Delhi	
2	MehtaP.L(1997),ManagerialEconomics,SultanChand,NewDelhi.	
3	WilliamF.Samuelson,StephenG.Marks,―ManagerialEconomics‖,Wiley,2014	
4	MichaelRBaye,ManagerialEconomics&BusinessStrategy–Mc. Graw Hill, USA, 5th Edition 2006.	
5	Yogesh,Maheshwari,ManagerialEconomics,PHILearningPvtLtd,2013	
ReferenceBooks		
1.	DominicSalvatore,(1993),ManagerialEconomics,McGrawHill Inc,New York	
2.	Ahuja.H.L.(2004),BusinessEconomics,S.Chand&Co,New Delhi.	
3.	L.Trivedi(2002),ManagerialEconomics:TheoryandApplicationsTata McGrawHill.	
4.	DwivediD.N(2000), ManagerialEconomics, VikasPublishingHousePvt Ltd	
5.	GregoryMankiw(2008)Economics:PrinciplesandApplications,NewDelhi, CengageLearningIndia.	
WebResources		
1.	http://economics.about.com/od/pricing	
2.	www.rbi.org	
3.	https://nptel.ac.in/courses/110101005	
4.	https://www.managementstudyguide.com/managerial-economics	
5.	https://hbr.org/1976/11/pricing-policies-for-new-products	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	2	3	2	2	3	3	3
CO 4	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	14	15	14	15	15	14	15
Weighted percentage of coursecontribution to POS	3.0	2.8	3.0	2.8	2.8	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	3	3
CO2	3	2	3	3	3
CO3	3	3	3	3	3
CO4	3	3	2	3	3
CO5	3	3	3	3	2
Weightage	15	13	13	15	14
Weightedpercentageof CourseContributionto PSOs	3	2.6	2.6	3	2.8

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-V

<table>
<tr><th rowspan="2">Subject Code</th><th rowspan="2">SubjectName</th><th rowspan="2">Category</th><th rowspan="2">L</th><th rowspan="2">T</th><th rowspan="2">P</th><th rowspan="2">S</th><th rowspan="2">Credits</th><th rowspan="2">Inst. Hours</th><th colspan="3">Marks</th></tr>
<tr><th>CIA</th><th>External</th><th>Total</th></tr>
<tr><td></td><td>OPERATIONS RESEARCH</td><td>Discipline Specific Elective-VI</td><td></td><td></td><td></td><td></td><td>3</td><td>5</td><td>25</td><td>75</td><td>100</td></tr>
<tr><td colspan="12">LearningObjectives</td></tr>
<tr><td>C1</td><td colspan="11">Toenablestudentsto understandtherational decisionmakingin practice</td></tr>
<tr><td>C2</td><td colspan="11">TounderstanduseofkeyconceptssuchasLinearProgrammingandits applications,.</td></tr>
<tr><td>C3</td><td colspan="11">ToprobetheTransportation AssignmentCPM,PERTand Queuing</td></tr>
<tr><td>C4</td><td colspan="11">ToprovideunderstandingaboutmakingRationalDecisionsin Practice.</td></tr>
<tr><td>C5</td><td colspan="11">Toprovide knowledgeonacquiringEntrepreneurial Skills.</td></tr>
<tr><td>UNIT</td><td colspan="8">Contents</td><td colspan="3">No. of Hours</td></tr>
<tr><td>I</td><td colspan="8">IntroductiontoOperationsResearch
Operations Research – Definition–Methodology – Tools-Types of Operations Research Models- Operations Research and Decision Making - Limitations.</td><td colspan="3">12</td></tr>
<tr><td>II</td><td colspan="8">LinearProgramming Problem
Definition –- Applications- Assumptions -Formulation- - Graphical solution – Maximization and Minimization- Simplex Method (2 Variable)</td><td colspan="3">15</td></tr>
<tr><td>III</td><td colspan="8">Transportationand Assignment
Introduction – Matrix Formulation of a Transportation Problem– North West CornerEntry Method –Vogel‘s Approximation Method- Initial Basic Feasible Solution (basic problems) - Assignment – Introduction – Balanced and UnbalancedAssignmentProblem–SolutionusingHungarian Assignment Method.</td><td colspan="3">18</td></tr>
<tr><td>IV</td><td colspan="8">DecisionTheory
DecisionMakingunderRiskandUncertainty-DecisionTreeAnalysis-Network Analysis –Basic Concepts: CPM – PERT</td><td colspan="3">15</td></tr>
<tr><td>V</td><td colspan="8">QueuingTheory
Queuing Theory - Basic Concepts -Traffic Intensity– Idle Rate-Single Channel - Number of Customers in Line and System - Time Spent bythe Customers in Line and System - Probabilityof Customers‘ Waiting.</td><td colspan="3">15</td></tr>
<tr><td></td><td colspan="8">Total</td><td colspan="3">75</td></tr>
</table>

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	UnderstandtheCharacteristics andMethodology of OperationsResearch.	PO1,PO3
2	Analyseconstraintsinoptimizationusing LinearProgramming	PO2,PO3
3	ExaminetheroleofvariousTransportationModeland Optimum cost in Assignment	PO2,PO3
4	Takeappropriatedecisions underconditions ofrisk and Uncertainty	PO3,PO4
5	Evaluatethecosts involvedin Queuing	PO2,PO3
Textbooks		
1	VittalP.R,(2019), IntroductiontoOperationsResearch,MarghamPublications	
2	GuptaP.KandManmohan,(2019),OperationsResearchSultanChand, New Delhi	
3	G.Srivivasan,―OperationsResearch:PrinciplesandApplication‖,PrenticeHall IndiaPvt., Limited,2017	
4	Ravindran,Phillips,Solberg,―OPERATIONSRESEARCH:PRINCIPLESAND PRACTICE‖, 2ND ED, Wiley, 2007	
5	P. RamaMurthy, ―OperationsResearch‖,NewAgeInternational, 2007	
ReferenceBooks		
1.	ChawlaK.K,VijayGuptaandBhushanK.Sharma(2015)Introductionto OperationsResearch,KalyaniPublishers	
2.	HamdyaTaha,(2017)OperationsResearch:AnIntroduction,10th Edition,Pearson	
3.	KapoorV.K.(2017)OperationsResearch,Sultan ChandandSons,NewDelhi,	
4.	GuptaP.K&Manmohan(2003)ProblemsinOperationsResearch(Methodsand Solutions),SultanChandandSons, NewDelhi	
5.	PanneerselvamR.(2018)OperationsResearch,Prentice-Hall India,	
WebResources		
1.	https://www.edx.org/course/operations-research-an-active-approach	
2.	https://www.theorsociety.com/resource-centre/teaching-resources/	
3.	https://or.stackexchange.com/questions/4277/operations-research-self-study-resources-for-beginners	
4.	https://www.notes4free.in/admin/postimages/OR%20NOTES.pdf	
5.	https://youtu.be/x-Wx9KLRBpk	

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	2	2	3	3	3
CO 4	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	15	15	15	14	14	15	14	15
Weightedpercentage of course contribution to POS	3.0	2.8	3.0	2.8	2.8	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	2	3	2
CO2	3	3	3	3	3
CO3	3	3	2	3	3
CO4	3	3	2	3	3
CO5	3	3	2	3	3
Weightage	15	15	11	15	14
WeightedpercentageofCourseContribution to PSOs	3	3	2.2	3	2.8

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-V

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	GENDER ECONOMICS	Elective					3	5	25	75	100

LearningObjectives	
C1	Studentswillbe ableto sensitizeonissuesthat isrelatedtogender
C2	Tounderstandtheconceptualclarificationof womenandwork
C3	ToanalysetheWomenin Organizedand UnorganizedSectors inan Economy
C4	Identifythe marginalization ofwomenin economictheoryand in theeconomy
C5	Incorporategenderinmainstreampolicymaking

UNIT	Contents	No. of Hours
I	**IntroductiontoGenderAnalysisandEconomics** Definition - Gender - Gender Analysis: Purpose and Scope - Feminist Perspective in Economics - Classical and Neoclassical Economics- Post Keynesian Economics- EconomicMeasurements-EmpiricalChallenges.	12
II	**DevelopmentandAnti - Development** Development Versus Anti-Development - Women In Development (WID)- Women and Development (WAD)-Gender And Development – Women And Empowerment-WomenAnd Environment – Ecofeminism.	15
III	**WomenandWork –A ConceptualClarification** Invisibility of Women – ―Statistical Purdah‖ - A Critique of Methods, Concepts, Definitions Employed in Economic Theory- A Critique of The Data System In India (Application) - Measures To Rectify This Invisibility	18
IV	**Marginalizationof Women** Women Sidelined – Gender – Discrimination Theories - Women in The Labour Market – Sexual Division of Labour, Wage Differentials,MicroCredit-WomeninTheOrganizedand Unorganized Sectors Of The Indian Economy (Application) - Feminization Of Work and Feminization Of Poverty	15
V	**Gender,TheEconomy andRelated Issues** Population–DemographicFeatures-HealthandEducation- Policy Measures – Government and NGOs– Gender Budgeting	15
	Total	**75**

Course Outcomes		**ProgrammeOutcomes**
CO	Oncompletionofthiscourse,studentswill	
1	RecognizeneedsforGenderAnalysis	PO1,PO5
2	Analyzethe roleof genderin development	PO1,PO2,PO5
3	Identifythe reasons behind the marginalization ofwomen	PO2,PO5
4	Formulatepoliciestoincludethe excluded	PO5, PO7
5	IntegrategenderinMainstream Economics	PO3, PO7

Textbooks	
1	JayaShrivatsava(2018)GenderDiscriminationand InequalityinContemporary India:Dimensionsand VoicesofProtests,KalpazPublications.
2	CarolineCriadoPerez(2019) InvisibleWomen:DataBiasinaWorldDesigned forMen,HarryN.Abrams.
3	MukeshEswaran(2020)WhyGenderMattersinEconomicsPrincetonUniversity Press
4	K.R.Gupta,―Gender ProblemsandPolicies‖, Atlantic, 2009.
5	JoyceJacobsen,―TheEconomicsofGender‖,Wiley–BlackwellPublisher3rd Edition, 2007

ReferenceBooks	
1.	GOI(1987),ShramShakti,ReportontheNationalCommissiononSelf–employedWomenandWomenintheInformalSectorNewDelhi.
2.	JulieANelson(1996),Feminism,Objectivityandeconomics, Routledge,London.
3.	Krishnaraj,MaithreyiandJoyP. Deshmukh(1991), Gender in Economics,AjanthaPublishers,New Delhi
4.	Loutfi,MF(ed.)(2002),Women,Gender&Work,RawatPublishers,New Delhi
5.	Krishnaraj,M.,andM.P.D.Joy.GenderinEconomics.Ajantha,New Delhi,1991
WebResources	
1.	https://www.unwomen.org/en/how-we-work/intergovernmental-support/world-conferences-on-women
2.	https://wcd.nic.in/
3.	https://www.tn.gov.in/department/30
4.	http://icds-wcd.nic.in/
5.	http://ncw.nic.in/

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	2	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	14	15	14	15	15	14	15
Weighted percentage of course contributionto POS	2.8	2.8	3.0	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	3	3
CO2	3	3	2	3	3
CO3	2	3	2	3	3
CO4	3	3	2	3	3
CO5	3	3	2	3	3
Weightage	14	15	10	15	15
Weighted percentage of CourseContributiontoPSOs	2.8	3	2	3	3

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

<table>
<tr><th rowspan="2">Subject Code</th><th rowspan="2">SubjectName</th><th rowspan="2">Category</th><th rowspan="2">L</th><th rowspan="2">T</th><th rowspan="2">P</th><th rowspan="2">S</th><th rowspan="2">Credits</th><th rowspan="2">Inst. Hours</th><th colspan="3">Marks</th></tr>
<tr><th>CIA</th><th>External</th><th>Total</th></tr>
<tr><td></td><td>INTERNATIONAL ECONOMICS</td><td>Core-XIII</td><td></td><td></td><td></td><td></td><td>4</td><td>6</td><td>25</td><td>75</td><td>100</td></tr>
<tr><td colspan="12" align="center">LearningObjectives</td></tr>
<tr><td>C1</td><td colspan="11">Toevaluate criticaloverviewofInternationalTrade theories</td></tr>
<tr><td>C2</td><td colspan="11">TounderstandtheForeignExchangeMarketanditsoperations</td></tr>
<tr><td>C3</td><td colspan="11">ToknowtheBOPdisequilibriumand InternationalTrade Policy.</td></tr>
<tr><td>C4</td><td colspan="11">ToimpartknowledgeonForeignExchangeMarketanditsconcepts</td></tr>
<tr><td>C5</td><td colspan="11">TofamiliarizestudentsonTradePolicies</td></tr>
<tr><td>UNIT</td><td colspan="7">Contents</td><td colspan="4">No. of Hours</td></tr>
<tr><td>I</td><td colspan="7">Introduction
Nature and Scope of International Economics -The Globalization of the World Economy - International Trade and the Nation‘s Standard of Living - International Trade Policy - Current International Economic Problems and Challenges.</td><td colspan="4">15</td></tr>
<tr><td>II</td><td colspan="7">InternationalTrade Theories
Absolute Advantage: Adam Smith - Comparative Advantage: David Ricardo - Opportunity Cost: Haberler - Reciprocal Demand: Mill - OfferCurves:Marshall - Factor Endowments: Heckscher-Ohlin - Leontief Paradox - Economic Growth and International Trade.</td><td colspan="4">14</td></tr>
<tr><td>III</td><td colspan="7">ForeignExchange Market
Foreign Exchange Market: Function and structures - Exchange Rates: Fixed, Flexible, Floating, Pegged, Nominal and Real Exchange Rates - Theories of Exchange Rates: Mint Parity Theory, Purchasing Power Parity Theory, and Balance of Payments Theory.</td><td colspan="4">16</td></tr>
<tr><td>IV</td><td colspan="7">BalanceofPayments
The Balance of Payments Account - Equilibrium and Disequilibrium in BOP - Surplus and Deficit in BOP-Adjustment Mechanism: Direct and Indirect Mechanisms–Export Promotion and Import Substitution.</td><td colspan="4">15</td></tr>
<tr><td>V</td><td colspan="7">TermsofTradeandTrade Policy
Terms of Trade: Concept and Determinants - Terms of trade and Economic Development - Tariff and Non-Tariff Barriers – Effects – Quotas - Import Quotas Vs Tariffs - Free Trade and Economic Development-Free Trade Vs Protection.</td><td colspan="4">15</td></tr>
<tr><td></td><td colspan="7">Total</td><td colspan="4">75</td></tr>
</table>

Course Outcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	Develop ideas of the basic characteristics of Globalisation of the World Economyand its currentinternationaleconomicproblemsand challenges.	PO1
2	GraspthebasictheoriesofInternationalTrade andEconomic Growth.	PO1
3	Understandthefunctions,structureandtheories ofForeign Exchange Market.	PO1,PO2,PO3
4	DescribetheBOPdisequilibrium, Adjustment Mechanism,ExportPromotionandImport Substitution.	PO2,PO3
5	Outlinethe conceptsof termsoftradeand assess theTariff,quotas,Freetradeandeconomic development	PO1,PO2

Textbooks	
1	MithaniD.M(2002),IntroductiontoInternationalEconomics,Vora&CoPublishers, Bombay.
2	Dwivedi, D. N.(2013).InternationalEconomics:TheoryandPolicy.VikasPublishing House,NewDelhi.
3	Cherunilam, Francis (2006). International Economics, TataMcGraw-Hill Publishing Co. Ltd., New Delhi
4	M.LJhingan,―InternationalEconomics‖,Vrindapublications,2016
5	K.R.Gupta,InternationalEconomics,AtlanticPublishers,2017

ReferenceBooks	
1.	PaulKrugman,MauriceObstfeld,andMarcMelitz,(2012),InternationalEconomics: TheoryandPolicy, Addison-Wesley(Pearson EducationIndian Edition), 9th edition.
2.	Kindleberger,C.P(1977).InternationalEconomics,D.B.TaraporevalaSonsandCo. Pvt.Ltd., Bombay
3.	Leamer,E.E.,&Stern,R.M.(2017).QuantitativeInternationalEconomics. Routledge.
4.	Salvatore,D.(2016).InternationalEconomics.JohnWiley& Sons.
5.	Jones,R.W.,Grossman,G.M.,Kenen,P.B.,Rogoff,K.,Gopinath,G.,&Helpman, E.(Eds.).(1997).Handbookof InternationalEconomics (Vol.3).Elsevier.

WebResources	
1.	https://www.imf.org
2.	https://www.forextime.com/education/forex-trading-for-beginners
3.	https://www.weforum.org/
4.	https://www.wto.org/
5.	https://policy.trade.ec.europa.eu/eu-trade-relationships-country-and-region/negotiations-and-agreements_en

MappingwithProgrammeOutcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	2	2	3	3	3
CO 4	3	3	2	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	15	14	14	15	15	14	15
Weighted percentage ofcoursecontribution to POS	2.8	3.0	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	2	3	2
CO3	3	3	2	3	2
CO4	3	3	3	2	2
CO5	3	3	2	3	3
Weightage	15	15	12	14	12
Weightedpercentageof CourseContribution to PSOs	3	3	2.4	2.8	2.4

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	DEVELOPMENT ECONOMICS	**Core-XIV**					4	6	25	75	100

LearningObjectives	
C1	Tofocuseson themesthatcut acrosscorevalues indevelopment economics
C2	Todescribesthevariousapproachesandtheoriesof development.
C3	ToanalyzethesignificanceofDevelopmentModelsinEconomicPlanning
C4	ToenablethestudentstoknowaboutDevelopmentandGrowth Models.
C5	Toprobetherole ofFinancial Systemin EconomicDevelopment

UNIT	Contents	No.of Hours
I	**Introduction** Meaning and Nature of Development Economics – Core values of Development-AmartyaSen‘sApproach–EconomicGrowthVs. Development–ProgressandEconomicWelfare–Comparative Economic Development.	12
II	**TheoriesofEconomic GrowthandDevelopment–I** Rostow‘sstagesofGrowth –BigPushTheory-TheoryofCritical Minimum Effort - Utilisation of Surplus Manpower – Lewis Theory, Nurkse Theory - Rural Urban Migration – Harris-Todaro Model.	15
III	**TheoriesofEconomic GrowthandDevelopment–II** Harrod-Domar Model (Critical Expansion and Growth) - - Solow ModelofGrowth-TechnicalProgressandGrowth-Human CapitalandGrowth-MyrdalModel(CumulativeCausation Thesis) - Kaldor Model (Model of Distribution).	18
IV	**DevelopmentPlanning** Development Planning – Concept and Rationale- Basic Models of Development Planning process – Government Failure and Market Economy – Role of NGOs in Economic Development – Trends in Governance and Reforms.	15
V	**FinancingEconomicDevelopment** RoleofFinancialSysteminEconomicDevelopment–Formal VersusInformalFinance–MicroFinance–ForeignFinance–ForeignAid- DevelopmentAssistance Debate.	15
	Total	**75**

Course Outcomes		Programme Outcomes
CO	Oncompletionofthiscourse,studentswill	
1	Outlinethecentralthemesandapproachesto Development.	PO1,PO2
2	Compareandcontrastthetheoriesof Growthand Development	PO1,PO2,PO3
3	CriticallyanalysevariousModels of Growth.	PO2,PO3,PO7
4	Examine the welfare impact of Development Planningandproposeddevelopmentinterventions bydifferent institutions	PO1, PO2,PO3,PO7
5	Evaluatethesourceand significanceofFinancein EconomicDevelopment	PO3,PO4

Textbooks	
1	AhujaH.L.(2016),DevelopmentEconomics,S.ChandandCompanyLtd.
2	Jhingan M.L.(2016),Economics of DevelopmentPlanning,Himalaya Publication House, 41stEdition.
3	Dutt,A.(2003). DevelopmentEconomicsandStructuralistMacroeconomics. EdwardElgarPublishing.
4	DebrajRay,"DevelopmentEconomics",OxfordIndianPaperbacks,1998
5	AlaindeJanvry,ElisabethSadoulet,―DevelopmentEconomics:Theoryand Practice‖, Talyor & Francis, 2021

ReferenceBooks	
1.	TodaroMichaelandCSmithStephen(2017)EconomicDevelopment,Pearson, 12thEdition
2.	Taneja&R.M.MyreM.L.(2017),EconomicsofDevelopmentandPlanning, VikasPublishingCo., 15thEdition
3.	KulwantRaiGupta(2006&2009),EconomicsofDevelopment&Planning(Vol. 1&Vol.2), AtlanticPublishers andDist.
4.	Huq,M.M.,Clunies-Ross,A.,&Forsyth,D.(2009). DevelopmentEconomics. McGrawHill.
5.	Meier,G.M.,&Stiglitz,J.E.(Eds.).(2001).FrontiersofDevelopment Economics:thefutureinperspective.World BankPublications.

WebResources	
1.	https://web.mit.edu/krugman/www/dishpan.html
2.	http://www.niti.gov.in/
3.	https://ida.worldbank.org/en/what-is-ida
4.	https://www.trade.gov/
5.	https://www.saarc-sec.org/

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	2	2	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	2	2	3	3	3
CO 4	3	3	2	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	14	14	14	15	15	14	15
Weighted percentage ofcoursecontribution to POS	2.8	2.8	2.8	2.8	3.0	2.8	2.8	3.00

S-Strong-3M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sandCO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	3	3	2
CO2	2	3	2	3	2
CO3	3	3	3	3	3
CO4	3	3	2	3	3
CO5	3	3	3	3	3
Weightage	14	15	13	15	13
WeightedpercentageofCourseContributionto PSOs	2.8	3	2.6	3	2.6

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	AGRICULTURAL ECONOMICS	**Core-XV**					4	6	25	75	100

LearningObjectives	
C1	Toprobeintothevariousissuesinagricultural Labour
C2	Tounderstandthemarketing, Finance andPricePolicyofAgriculture
C3	Tostudythe impactofAgricultureonIndianEconomicScenario.
C4	ToassesstheSustainableagricultureDevelopment Inindia
C5	Tofamiliarizestudents aboutthesignificanceofSustainable Agriculture.

UNIT	Contents	No. of Hours
I	**Introduction** Scope and significance of Agriculture- Role of Agriculture in India's Development- Inter-sectoral Linkages - Farm Management:DefinitionandPrinciples-ManagementofRisksin Agriculture.	12
II	**Agricultural Labour** Agricultural labour: Definition - Types – Supply of Labour – Problems - Rural Unemployment: Types, Consequences and Remedial Measures- Minimum Wages for Agricultural Workers– Recent Wage and Self-Employment Programmes	15
III	**Agricultural Finance** Agricultural Finance: Meaning, Nature, Types, Sources and Problems of Agricultural Finance- Cooperatives in Rural Finance- Role of Commercial Banks and NABARD – Farm Capital - Meaning, Types and Marginal Efficiency of Farm – Agricultural Capital Formation	15
IV	**AgriculturalPrice Policy** Objectives and need of Agricultural Price Policy – Stability and Trends in Agricultural Prices – Evaluation of Agricultural Price Policy in India – Agricultural Exports - Current Issues in Indian Agriculture.	15
V	**SustainableAgricultureandFood Security** Development issues: Poverty, Inequality, Unemployment and Environmental Degradation - Green Revolution: Recent Developments– Methods and Issues - Population and Food Supply- Food Security and Public Distribution System in India.	18
	Total	**75**

CourseOutcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	Understandthe relevanceofAgricultural Economicsand Development	PO1,PO2
2	ExaminetheimportanceofAgriculturalLabour inRuralDevelopment	PO1,PO2
3	Identifythesources andimportanceof AgriculturalFinance.	PO3, PO7
4	AnalyzethetrendsinAgriculturalPrices	PO1, PO2,PO3
5	EvaluatetheMajorissuespertainingto Agriculture.	PO3,PO4
Textbooks		
1	LekhiR.K.andJoginderSingh,(2015),AgriculturalEconomics:AnIndian Perspective,KalyaniPublishers, Ludhiana.	
2	SadhuAn,SinghAmarjitandSinghJasbir,(2014),FundamentalsofAgricultural Economics,HimalayaPublishingHouse,Delhi	
3	MridulaMishra,(2010),AgricultureandFoodEconomics,SerialsPublication, New Delhi.	
4	JohnB.Penson,Jr,OralCapps,Jr,C.ParrRossonIII,Richard.T.Woodward, ―IntroductiontoAgriculturalEconomics‖,PearsonPublications,2017.	
5	Dr.B.P.Tyagi,―AgriculturalEconomics&RuralDevelopment‖,JaiPrakashnath& Co., 2017.	
ReferenceBooks		
1.	JanardhanaRao.N,(2005),IndianAgriculture:IssuesandPerspectives,ICFAI UniversityPress,Hyderabad.	
2.	Gray,L.C.(2013).IntroductiontoAgriculturalEconomics.ReadBooks Ltd.	
3.	Barkley,A.,&Barkley,P.W.(2016).PrinciplesofAgriculturalEconomics. Routledge.	
4.	Cramer,G.L.,Jensen,C.W.,&SouthgateJr,D.D.(2001).Agricultural EconomicsandAgribusiness (No. Ed.8).John Wileyand Sons.	
5.	Colman,D.,&Young,T.(1989).PrinciplesofAgriculturalEconomics:Markets AndPricesInLessDevelopedCountries.Cambridge UniversityPress.	
WebResources		
1.	https://icar.org.in/	
2.	https://www.icrisat.org/	
3.	https://www.nabard.org/	
4.	https://www.fao.org	
5.	https://farmer.gov.in/mspstatements.aspx	

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	2	2	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	3	2	2	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	14	15	14	15	15	14	15
Weightedpercentage of course contribution to POS	2.8	2.8	3.0	2.8	3.0	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	3	3	2
CO2	2	3	2	3	2
CO3	3	3	3	3	3
CO4	3	3	2	3	3
CO5	3	3	3	3	3
Weightage	14	15	13	15	13
Weightedpercentageof CourseContribution to PSOs	2.8	3	2.6	3	2.6

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	BASIC ECONOMETRICS	**Discipline Specific Elective-VII**					3	5	25	75	100

LearningObjectives	
C1	ToanalysetheEconomic Relationship mathematically.
C2	Toestimatetestinghypotheses,forecastingwhichhelps inPolicyDecisionMaking
C3	Tounderstandtheapplicationofeconomictheoriesinrealtimesituations
C4	ToevaluatetheViolation ofAssumptionsineconometric applications
C5	TounderstandandanalyzevariousEconometric Modelsandits application.

UNIT	Contents	No.of Hours
I	**Introduction** Definition – Scope – Divisions – Objectives – Use of Econometrics – Econometrics and Mathematical Economics – Econometrics andStatistics – Methodology of Econometrics - Basic ideas of Linear Regression Model–Two variable Model, Population regression Function (PRF),SampleRegressionFunction(SRF)–ErrortermU–significance -StochasticformofPRFand SRF.	12
II	**Estimation** Classical Linear Regression Model – Assumptions – Method of Ordinary Least Squares (OLS) – Derivation of OLS Estimators - Derivationof varianceand Standarderrorof OLSestimators(Simple Linear Regression) –Properties of OLS estimators-Gauss–Markov Theorem– Proof – Three Variable Model estimation (Basic Idea only) – HypothesisTesting(tandFtest)–TestofGoodnessofFit$R^2$and AdjustedR^2.	18
III	**Violation ofAssumptions** Multi-collinearity: Nature, Consequences, detection and Remedial Measures- Heteroscedasticity: Nature-Consequences Detection and Remedial Measures- Autocorrelation: Nature, Consequences, Detection and Remedial Measures.	15
IV	**FunctionalFormsandDummy Variables** Regression through the origin - Double Log Model – Measurement of Elasticity – Semi log model – Measurement of Growth. DummyVariables – ANOVA and ANCOVA Models – DummyVariable Trap – Uses – Interaction Effects – Structural Changes – Seasonal Variations – Piecewise Linear Regression. AutoregressiveandDistributedLagModel–AdHocMethodof	15

	Estimation–KoyckTransformation –MeanandMedianLag.	

V	**SimultaneousEquationModel** Simultaneous Equation Model:Definition and Examples – Simultaneous Equation Bias – Structural and Reduced Form Equations – Identification – Rank and Order Condition – Indirect Least Square Estimation – Two Stage Least Square Estimation.	15
	Total	**75**

Course Outcomes		**ProgrammeOutcomes**
CO	Oncompletionofthiscourse,studentswill	
1	Understandingthe importanceof Econometrics.	PO1,PO3
2	Learningthe estimationtechniquesof measuring relationshipamongeconomicvariables.	PO1,PO3
3	Developingskills of interpretation.	PO3,PO8
4	Constructmodelsinthe testingof theories.	PO2, PO3, PO7
5	Applicationofreal dataforpolicysuggestions.	PO2,PO3,PO8

Textbooks	
1	Gujarathi,D.M.(2022).Gujarati:BasicEconometrics.McGraw-hill.
2	Ramanathan,R.(1992).Introductoryeconometrics withapplications.DrydenPress.
3	MaddallaG.S.(2001) IntroductiontoEconometrics, ThirdEdition ,WileyIndia
4	Koutsoyiannis. ―A,TheoryofEconometrics‖,Palgrave,Delhi.
5	M.Wooldridge,―IntroductoryEconometrics:AModernApproach‖,Jeffery5th Edition 2013.

ReferenceBooks	
1.	DominickSalvatoreandDerrickReagle,StatisticsandEconometrics,TataMcGraw Hill(Schaum‘sSeries).
2.	Damodar,N.(2009). BasicEconometricsFifthEdition.McGraw-Hill.
3.	Moody,C.(2009).BasiceconometricswithSTATA.EconomicsDepartment.College ofWilliam and Mary.
4.	JohnsonJr,A.C.,Johnson,M.B.,&Buse,R.C.(1987).Econometrics:Basicand applied.NewYork.
5.	Hill,R.C.,Griffiths,W.E.,&Lim,G.C.(2018).Principlesofeconometrics.John Wiley&Sons.

WebResources	
1.	https://nptel.ac.in/courses/111104072
2.	http://home.iitk.ac.in/~shalab/onlinecoursematerial
3.	https://nou.edu.ng/coursewarecontent/ECO%20355_0.pdf
4.	https://www.economtericssociety.org
5.	https://economicsnetwork.ac.uk

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	2	2	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	2	2	3	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	3
Weightage	14	14	14	14	15	15	14	15
Weighted percentage of coursecontributiontoPOS	2.8	2.8	3.0	2.8	3.0	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	2	3	3
CO2	3	3	2	3	3
CO3	3	3	2	3	3
CO4	3	3	2	3	2
CO5	3	2	3	2	2
Weightage	15	14	11	14	13
Weightedpercentageof CourseContribution to PSOs	3	2.8	2.2	2.8	2.6

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	BEHAVIOURAL ECONOMICS	**Discipline Specific Elective-VII**					3	5	25	75	100

LearningObjectives	
C1	Toprovideanoverview ofhowBehaviouralPrinciplesin economics
C2	ToapplybehaviouralapproachestoeconomicProblems
C3	ToknowtheNatureandComponentsof mental accounting
C4	Toimpartknowledgeon howpeople'sbehaviourinfluenceDecisionMaking.
C5	ToanalyzetheBehaviouralEconomic Models.

UNIT	Contents	No. of Hours
I	**Introduction** History and Evolution of Behavioural Economics - Neoclassical Concept and Criteria for Economic Rationality - Causes of irrationality – Herbert Simon -Bounded Rationality Methods used in Behavioural Economics	15
II	**Heuristics&Biases** Advantages and Disadvantages of Heuristics -Availability Heuristic - Anchoring Heuristic - Representative Heuristic - Self Evaluation Biases and Projection Bias	14
III	**AnimalSpiritsanditsimpactonEconomic Decisions** Confidence – its feedback mechanism that amplifies disturbances - Fairness – Its influence in setting wages and prices - Corruption and Antisocial behaviour - Money Illusion – Improper interpretation of inflation and deflation	15
IV	**ProspectTheory** ConventionalapproachestomodifyingExpectedUtilitytheory-Prospect theoryandEndowmenteffect-ReferencepointsandLossAversion- Shape of the utility function - Decision weighting	16
V	**Mental Accounting** NatureandComponentsofmentalaccounting-FramingandEditing- Budgeting and Fungibility - Choice Bracketing and Dynamics	15
	Total	**75**

Course Outcomes		Programme Outcome
CO	Oncompletionofthiscourse,studentswill	
1	Understand the flexibility and limitations of the economic approachtomodellingbehaviouranddemonstrate knowledge oftheevolution andmethodsused inbehaviouraleconomics	PO1,PO3
2	Identifyways in whichindividuals aresystematicallyirrational	PO1,PO2
3	Knowhowtouseexistingbehaviouralmodelstounderstand new economic phenomena and analyse how deviations in rationalityimpacteconomic decisions.	PO2,PO3
4	Apply Prospect Theory to understand how people make decisionswhenpresentedwithalternativesthatinvolverisk, probability and uncertainty.	PO3,PO4,PO7
5	Understand andapplyin policythe different aspects ofthe conceptofmentalaccounting	PO3,PO7,PO8

Textbooks	
1	PhillipCorrand AnkePlagnolBehavioralEconomics: TheBasics 1st Edition, Kindle Edition,Routledge,2018
2	DanArielyPredictablyIrrational:TheHiddenForces ThatShape Our Decisions, HarperCollins,2009.
3	DavidCorrellBehavioralEconomics:Psychology,Neuroscience, andTheHumanSide ofEconomics(HotScience)IconBooks Ltd,2021
4	SanjitDhami.,TheFoundationsofBehavioralEconomicAnalysis,OxfordUniversity Press,2016
5	BrandonLehr,—BehavioralEconomicsEvidence,Theory,andWelfare‖,Talyor& Francis, 2021

ReferenceBooks	
1.	NickWilkinsonandMatthiasKlaes(2012)An IntroductiontoBehavioural Economics2nd Edition,PalgraveMacmillan, London
2.	DavidR.Just(2014)IntroductiontoBehavioural Economics,WileyPublication,New Jersey
3.	ColinF.Camerer,GeorgeLoewensteinandMatthewRabin(2003)Advancesin Behavioural
4.	FrankRobertH(2015)Microeconomicsand Behaviour,McGrawHillEducation, NewYork,2015
5.	Thaler,RichardH(2016) TheMakingof BehaviouralEconomics-Misbehaving,WW Norton&Co,Penguin,London

WebResources	
1.	www.behavioraleconomics.com/BEGuide2017.pdf
2.	academic.oup.com/restud/pages/behavioral_economics
3.	https://www.behavioraleconomics.com/

4.	https://www.exploring-economics.org/en/orientation/behavioral-economics/
5.	https://www.povertyactionlab.org/

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	2	2	3	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	3	3
Weightage	14	15	14	14	15	15	15	15
Weighted percentage ofcoursecontribution to POS	2.8	2.8	3.0	2.8	3.0	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	2	2
CO4	3	3	3	3	3
CO5	3	3	2	3	3
Weightage	15	15	14	12	12
Weightedpercentageof CourseContributionto PSOs	3	3	2.8	2.4	2.4

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	FINANCIAL MARKETSAND INSTITUTIONS	**Discipline Specific Elective-VIII**					3	5	25	75	100

LearningObjectives	
C1	Toprovidesacomprehensivefunctions andoperationsoffinancial markets
C2	Tounderstandthevarious financialinstitutionsand itsoperationsinIndia
C3	Toprobethe roleof banksinthefinancialoperations andits regulations
C4	ToanalysetheFinancialInstitutionsin Indiaanditsinfluenceon IndianEconomy.
C5	ToimpartknowledgeonExchangeMarketsandits aspects.

UNIT	Contents	No.of Hours
I	**Introduction** Introduction to Financial System and Economic Development - Indicators of Financial Development, Concepts Related to Financial Markets and Institutions - Concept of Risk -Types of Return and Yield	15
II	**FinancialInstitutions–I** Commercial Banking - Role of Banks – NPAs - Risk Management in Banking– International Banking - Financial Regulations and Regulatory Institutions in India - RBI, SEBI, IRDA, PFRDA - Corporate Governance and SEBI.	15
III	**FinancialInstitutions–II** Financial Institutions – Provident Fund, Pension Fund, Insurance Companies - Mutual Fund, Credit Rating Agencies, Merchant Bank, Venture Capital Funds. BondMarket:BondFeatures,BondPriceVolatility,Government Security Market, Corporate Bond Market, Public Sector Undertaking Bonds.	12
IV	**Derivatives Market** Classification of Stock Market and Securities – IPO, Stock Exchanges, Stock Market Indices, Derivatives Market - Types of Derivatives.	15
V	**Exchange Market** Foreign Exchange Market - Foreign Exchange Market Structure - Risk Management in Foreign Exchange Market - Exchange Rate Determination - Foreign Capital – FDI& FII, Central Bank Intervention in Foreign Exchange Market.	18
	Total	**75**

Course Outcomes		Programme Outcomes
CO	On completion of this course, students will be able to	
1	Understand the role and importance of the Indian Financial Market.	PO1
2	Analyse the importance of Commercial Banks	PO1
3	Understand and analyse the mechanics and regulation of financial instruments and determine how the value of stocks, bonds, and securities are calculated.	PO2,PO3
4	Evaluate the performance of Derivative Market.	PO2,PO3
5	Analyse the Foreign Exchange Market.	PO2,PO3
Textbooks		
1	Saunders,A.,Cornett,M.M.,&Erhemjamts,O.(2012).Financial Markets and Institutions.McGraw-Hill/Irwin.	
2	Mishkin,F.S.,&Eakins,S.G.(2006).Financial Markets and Institutions.Pearson Education India.	
3	Frederic,S.(2000). Financial Markets and Institutions.Pearson Education India.	
4	Maureen Burton, Reynold F. Nesiba, Bruce Brown,—An Introduction to Financial Markets and Institutions‖,Talyor & Francis, 2015	
5	Dr.F.C Sharma,—Financial Markets, Institutions and Services‖SBPD Publications, 2021	
Reference Books		
1.	Megginson,W.L.(2005).The Financial Economics of Privatization.Oxford University Press on Demand.	
2.	Burton,M.,Nesiba,R.F.,&Brown,B.(2015).An introduction to Financial Markets and Institutions. Routledge.	
3.	Jones,F.M.(2014).Foundations of Financial Markets and Institutions.Pearson Education.	
4.	Bhole,L.M.(2004).Financial Institutions and Markets:Structure,Growth And Innovations,*4e*.Tata McGraw-Hill Education.	
5.	Dr.Gurusamy.S(2018)Financial Markets and Institutions,McGraw Hill Education India.	
Web Resources		
1.	https://www.rbi.org.in	
2.	https://www.nseindia.com	
3.	https://www.sebi.gov.in	
4.	https://dpiit.gov.in/foreign-direct-investment/foreign-direct-investment-policy	
5.	https://fifp.gov.in/	

MappingwithProgramme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	3	2	2	3	3	3	3
CO 4	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	3	3
Weightage	15	15	14	14	15	15	15	15
Weighted percentage of course contributionto POS	3.0	3.0	3.0	2.8	3.0	3.0	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	13	14
Weightedpercentageof CourseContributionto PSOs	3	3	3	2.6	2.8

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

Subject Code	SubjectName	Category	L	T	P	S	Credits	Inst. Hours	Marks		
									CIA	External	Total
	URBAN ECONOMICS	**Discipline Specific Elective - VIII**					3	5	25	75	100

LearningObjectives	
C1	Toknowtherole ofUrban Economicsanditsgrowth structure
C2	TounderstandthebasiceconomicprinciplesinUrban Economics.
C3	Todescribesthevariousurbaninfrastructures anditsfunctions
C4	Toprovideunderstandingabouturbanization andits aspects.
C5	Tofamiliarizethestudentsaboutmigrationanditsrelevancein urban development.

UNIT	Contents	No. of Hours
I	**Introduction** DefinitionofUrbanEconomics-NatureandScopeofUrban Economics-Density,Urbanization-DefinitionofaCityandMetropolitan area - Urban structure and Urban growth .	15
II	**Concept,CausesandProblemsofUrbanisation** Urbanization – Concept– Urban Morphology - Causes and Issuesof Urbanization- Sustainable Urbanization.	15
III	**Urban Infrastructure** Urban Infrastructure- Transportation – Electricity - Water Supply - Slums, Housing and Urban Renewal -Public Health.	16
IV	**Migration Theories** Theories of Rural Urban Migration –Ravenstein‘s Law of Migration- Stouffer‘s theory of Mobility- Lee‘s theory- Reasonsfor Migration: Push and Pull factors.	14
V	**PoliciesforUrbanDevelopment** Policies and Programmes for Urban development - Measures to Control Urban Growth - Integrated Development of Small and Medium Towns- Smart Cities in India	15
	Total	

Course Outcomes		ProgrammeOutcomes
CO	Oncompletionofthiscourse,studentswill	
1	Acquireknowledgeonthesubjectmatterof UrbanEconomics	PO1
2	GainKnowledgeonUrbanizationanditsImpact	PO1,PO2
3	UnderstandandanalysetheUrbanInfrastructure	PO1,PO2
4	AnalyzetheimpactofMigration	PO2,PO4
5	ApplyvariousideasandpoliciesinUrban Economics.	PO4
Textbooks		
1	Ahluwahalia,I.J.,Kanbur,R.,&Mohanty,P.K.UrbanizationinIndia,Sage Publications,NewDelhi. (2014)	
2	Hartwick,JohnM,(2015)UrbanEconomics,Routledge.	
3	ArthurO'Sullivan,UrbanEconomics,TataMcGrawHill,2009.	
4	Douglas.M.Brown,―IntroductiontoUrbanEconomics‖,2013	
5	JohnF.McDonald,DanielP.McMillen,―UrbanEconomicsandReal Estate:Theory and Policy‖, Wiley, 2011	
ReferenceBooks		
1.	BrianceAandRavinderSingh,(edited)(1995),HousingtheUrbanPoor,Policy andPracticeinDevelopingCountries,(SagePublications,New Delhi).	
2.	FredDurr(1971),TheUrbanEconomy(London, IndexEducationalPublishers).	
3.	Harris Tondon(1973),Introduction to Urban EconomicAnalysis and PolicyNew York.	
4.	LolydRDowinandAssociates(1969),PlanningUrbanGrowthandRegional Development(London:MT.Press).	
5.	MarkGarrett(1996),TransportationPlanning(SagePublications,NewDelhi).	

WebResources	
1.	https://smartcities.gov.in/
2.	http://www.moud.in/
3.	https://urbaneconomics.org/
4.	https://www.iom.int/
5.	https://refugeesmigrants.un.org/

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3
CO 3	3	2	2	2	3	3	3	3
CO 4	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3
Weightage	15	14	14	14	15	15	15	15
Weighted percentage of course contributionto POS	3.0	3.0	3.0	2.8	3.0	3.0	3.0	3.00

S-Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	2	3	2	3
CO2	3	3	3	2	3
CO3	3	3	2	3	3
CO4	3	3	2	3	3
CO5	3	3	2	3	3
Weightage	15	14	2	13	15
Weightedpercentageof CourseContributionto PSOs	3	2.8	2.4	2.6	3

S-Strong-3 M-Medium-2L-Low-1

THIRDYEAR-SEMESTER-VI

<table>
<tr><th rowspan="2">Subject Code</th><th rowspan="2">SubjectName</th><th rowspan="2">Category</th><th rowspan="2">L</th><th rowspan="2">T</th><th rowspan="2">P</th><th rowspan="2">S</th><th rowspan="2">Credits</th><th rowspan="2">Inst. Hours</th><th colspan="3">Marks</th></tr>
<tr><th>CIA</th><th>External</th><th>Total</th></tr>
<tr><td></td><td>GENERAL STUDIES FOR COMPETITIVE EXAMINATIONS</td><td>Professional Competency Skill</td><td></td><td></td><td></td><td></td><td>2</td><td>2</td><td>25</td><td>75</td><td>100</td></tr>
<tr><td colspan="12">LearningObjectives</td></tr>
<tr><td>C1</td><td colspan="11">Tocreatetheopportunityforlearningacrossdifferent disciplines</td></tr>
<tr><td>C2</td><td colspan="11">Tobuildexperiences forstudentsas theygrow intolifelong learners.</td></tr>
<tr><td>C3</td><td colspan="11">Toknowtheworldclimaticclassificationand itsfeatures</td></tr>
<tr><td>C4</td><td colspan="11">Tobuildexperiences forstudentsas theygrow intolifelong learners.</td></tr>
<tr><td>C5</td><td colspan="11">To knowthe historyof modernIndia</td></tr>
<tr><td>UNIT</td><td colspan="8">Contents</td><td colspan="3">No. of Hours</td></tr>
<tr><td>I</td><td colspan="8">Polity
Basic concepts- Three organs of Indian Government (Executive, Legislature, Judiciary), Introduction to Indian Constitution- Salient features of Constitution, Preamble, Fundamental Rights,Fundamental Duties, Directive Principles of State Policy, Types of Majority,Amendmentstotheconstitution,basicstructuredoctrine, Division of subjects between the Union and the States Local Governance, Elections in India and Election Commission, CAG</td><td colspan="3">15</td></tr>
<tr><td>II</td><td colspan="8">Geography
Major oceans of the world - Important Canals – Gulfs – Straits and Passes - Indian Rivers and its Tributaries - Climatology - Atmosphere, wind systems, cloud systems, world climatic classification -Indian climate - Indian Monsoon - India‘s Physical Features, Indian Soil -Types and Distribution - Important Trade Routes and Projects, Indian Natural Vegetation - Indian agriculture- MajorCropsanditsdistribution,IndianIndustriesandits Distribution</td><td colspan="3">15</td></tr>
<tr><td>III</td><td colspan="8">Economy
National Income – Inflation - Money and Banking - Agriculture in India-UnionBudget- Planning in India – Poverty – Unemployment - Inclusive Development and Development issues - Industrial Policies - Financial Markets</td><td colspan="3">15</td></tr>
<tr><td>IV</td><td colspan="8">History
ModernIndia-FormationofIndianNationalCongress-Morley Minto Reforms, Revolutionary activities - World War I and India‘sResponse-HomeRuleleague-MontagueChelmsfordreforms-</td><td colspan="3">15</td></tr>
</table>

	Rowlatt Act - Non-CooperationMovement - SimonCommission and Nehru Report - Civil Disobedience Movement and Round Table Conferences - Quit India Movement and Demand for Pakistan - Cabinet Mission - formation of Constituent assembly and Partition of India	
V	**Environmentand Ecology** Basicconcepts-Ecology, Biodiversity-FoodChainAndFoodWeb - Bio-Geo Chemical Cycles -International BiodiversityOrganisations - International Conventions - Conferences and Protocols - Indian Environmental Laws And Environment Related Organisations	15
	Total	**75**

CourseOutcomes		**ProgrammeOutcomes**
CO	Oncompletionofthiscourse,studentswill	
1	Developbroadknowledgeofthedifferentcomponents in Polity	PO1,PO2
2	UnderstandtheGeographicalfeaturesacrossCountries andinIndia	PO1,PO2
3	AcquireKnowledgeoftheaspectsoftheIndian Economy	PO2,PO3
4	Understand the significance of India‘s Freedom Struggle	PO2,PO3
5	GainKnowledgeof EcologyandEnvironment	PO2,PO5
Textbooks		
1	Class XIand XIINCERTGeography	
2	History-OldNCERT‘sClassXIandXII	
3	TamilNadu StateBoardXIand XIIHistoryBooks	
4	History-VItoX NCERT	
5	Economics- IXto XIINCERT	
ReferenceBooks		
1.	Laxmikanth.M(2019),IndianPolity,McGraw-Hill	
2.	RameshSingh(2022),IndianEconomy,McGraw Hill	
3.	Leong,G.CPhysicaland HumanGeography,OxfordUniversityPress	
4.	MajidHussain,IndiaMapEntriesinGeography,GKPublicationsPvt.Ltd.	
5.	MajidHussain-Environmentand Ecology, GKPublications Pvt. Ltd	
6.	RajivAhir,ABriefHistoryofModernIndia-SpectrumBooksPvtLtd	
	WebResources	
1.	https://darpg.gov.in/en	
2.	https://www.india.gov.in/topics/governance-administration	
3.	https://dea.gov.in/	
4.	https://mausam.imd.gov.in/	
5.	http://moef.gov.in/	

MappingwithProgramme Outcomes:

	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**
CO 1	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	2	3	3
CO 3	3	2	2	2	3	3	3	3
CO 4	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3
Weightage	15	14	14	14	15	14	15	15
Weighted percentage ofcoursecontribution to POS	3.0	2.8	3.0	2.8	3.0	2.8	3.0	3.00

Strong-3 M-Medium-2L-Low-1

LevelofCorrelationbetweenPSO'sand CO's

CO /PO	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	3	3	3	3
CO2	3	3	2	3	3
CO3	3	3	2	3	3
CO4	2	2	2	3	3
CO5	3	2	2	3	3
Weightage	14	13	11	15	15
WeightedpercentageofCourse Contribution to PSOs	2.8	2.6	2.2	3	3

Strong-3 M-Medium-2L-Low-1