



Re-Accredited 'B++' 2.86 CGPA by NAAC

VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

યુનિવર્સિટી કેમ્પસ, ઉધના-મગદલા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

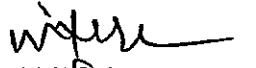
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-: પરિપત્ર :-

યુનિવર્સિટીના વિનયન વિદ્યાશાખા હેઠળના શૈક્ષણિક વિભાગોના વડાશ્રીઓ અને યુનિવર્સિટી સંલગ્ન કોલેજોનાં આચાર્યશ્રીઓને જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૬-૨૭ થી અમલમાં આવનાર NEP-2020 અંતર્ગત 2 years PG - એમ.એ.અર્થશાસ્ત્ર સેમેસ્ટર-૧ અને ૨ નો અભ્યાસક્રમ અંગે અર્થશાસ્ત્ર વિષયની અભ્યાસ સમિતિની તા.૨૮/૦૧/૨૦૨૬ની સભાનાં ઠરાવ ક્રમાંક:૫ થી નીચે મુજબ કરેલ ભલામણ સ્વીકારી વિનયન વિદ્યાશાખાની તા.૧૦/૦૬/૨૦૨૬ની સભાનાં ઠરાવ ક્રમાંક:૨૦ થી કરેલ ભલામણને એકેડેમિક કાઉન્સિલની તા.૧૮/૦૬/૨૦૨૬ની સભાનાં ઠરાવ ક્રમાંક: ૬૨ થી મંજૂર કરેલ છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

(બિડાણ: ઉપર મુજબ)

ક્રમાંક : ઓથો./પરિપત્ર/સિલેબસ/૧૩૭૨૮/૨૦૨૬
તા.૨૩-૦૬-૨૦૨૬


કુલસચિવ

પ્રતિ,

- ૧) યુનિવર્સિટી સંલગ્ન વિનયન વિદ્યાશાખા હેઠળની તમામ કોલેજોનાં આચાર્યશ્રીઓ તથા વિભાગીય વડાશ્રી.
.....આપશ્રીની કોલેજના સંબંધિત શિક્ષકોને જાણ કરી અમલ કરવા સારું.
- ૨) ડીનશ્રી, વિનયન વિદ્યાશાખા.
- ૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.
.....તરફ જાણ તેમજ અમલ સારું.

VEER NARAMAD SOUTH GUJARAT UNIVERSITY, SURAT
Programme Name:- MASTER OF ARTS- ECONOMICS SEMESTER : 1

As Per NEP-2020

Teaching & Evaluation Scheme: - As per NEP-2020

SEMESTER : 1																
Course Category	Course Code	Course Title	Mark sheet Title in English	Level of Course	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR	MAJOR : ECO : 1	Micro Economics - 1	Micro Economics - 1	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR	MAJOR : ECO : 2	Macro Economics - 2	Macro Economics - 2	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR -	MAJOR – ECO - 3	Quantitative Methods for Economics - 3	Quantitative Methods for Economics -3	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR 4 (A)	MAJOR – ECO- 4 (A)	Industrial Economics - 4	Industrial Economics - 4	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR – 4 (B)	MAJOR – ECO- 4 (B)	Agriculture Economics -4	Agriculture Economics - 4	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR – 4 (C)	MAJOR – ECO- 4 (C)	Economics of Human Resource - 4	Economics of Human Resource - 4	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR – 4 (D)	MAJOR – ECO- 4 (D)	Econometrics - 4	Econometrics - 4	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR – 5 (A)	MAJOR – ECO- 5 (A)	Indian Political System -5	Indian Political System -5	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR – 5 (B)	MAJOR – ECO- 5 (B)	Economics of Infrastructure - 5	Economics of Infrastructure 5	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR – 5 (C)	MAJOR – ECO- 5 (C)	Research Methodology -5	Research Methodology - 5	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
SEC	SEC:	Term Paper	Term Paper	200	2hr/week	0	0	0	2	0	25	0	25	0	50	0

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS
EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-1 CREDIT: 4
(Major ECO -1) Micro Economics I

Program Name	Master of Arts (Economics)					
Semester	1 (First)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO -1					
Course Level						
Course Title	Micro Economics I					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	CO1 - Explain major demand analysis. CO2 - Analyse production functions, costs, and firm equilibrium. CO3 - Evaluate market behaviour under perfect competition. CO4 - Evaluate causes of welfare loss due to market failure, uncertainty, and imperfect markets. CO5 – Assess economic behaviour under risk and uncertainty. CO6 – Interpret effects of asymmetric information in markets.					
Course Content	Unit - 1 : Demand analysis and Intertemporal Choice - Hicks and Slutsky Theorem - Revealed Preference Theory - Revision of Demand Theory of Hicks - The Budget Constraint - Preferences for Consumption - Comparative Statics - The Slutsky Equation and Intertemporal Choice Unit – 2 : Theory of production and costs - Cobb-Douglas, CES and input demand functions and their properties - Derivation of SR and LR supply curve - Classical model of the Firm Equilibrium - Isoquants – Characteristics – Iso Cost - Least Cost Combinations of Inputs – Cost and Revenue Analysis Unit – 3 : Economics risk and asymmetric information - Meaning of risk – Uncertainty - Risk Measurement - Individual behavior towards risk – Risk Avert – Risk Neutral – Risk Taker - Asymmetric Information – Market for Palm and Lemon – Moral Hazard – Adverse selection Unit – 4 : Welfare Economics - Introduction to welfare Economics - Pigovian Welfare Economics, Pareto Optimal Conditions/ Social Optimality, Social Welfare Function					

	Inability to obtain Welfare – Imperfections Market failure, decreasing costs, uncertainty and Nonexistent and incomplete markets						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
	CO5						
	CO6						
Program Name	Master of Arts (Economics)						
Semester	1 (First)						
Course Title	Micro Economics - I						
	એકમ - 1 : માંગ વિશ્લેષણ અને આંતર-કાલીન પસંદગી - હિક્સ અને સ્લટસ્કીના સિદ્ધાંતો - જાહેર પસંદગી સિદ્ધાંત - હિક્સનો માંગ પરિવર્તનનો સિદ્ધાંત - બજેટ મર્યાદા - વપરાશ માટેની પસંદગીઓ - તુલનાત્મક આંકડા - સ્લટસ્કી સમીકરણ અને આંતર-કાલીન પસંદગી એકમ - 2 : ઉત્પાદન અને ખર્ચનો સિદ્ધાંત - કોબ-ડગ્લસ, CES અને ઇનપુટ ઉત્પાદન વિધેય અને તેના લક્ષણો - ટૂંકા ગાળાની અને લાંબા ગાળાની પુરવઠા રેખા - પેઢીની સમતુલાના પ્રશિષ્ટ મોડેલ - સમ-ઉત્પાદન વક્ર – લક્ષણો – સમ-ખર્ચ રેખા - ઇનપુટના ન્યૂનતમ ખર્ચ સંયોજન – ખર્ચ અને આવક વિશ્લેષણ એકમ - 3 : જોખમનું અર્થશાસ્ત્ર અને અસંમિત માહિતી - જોખમનો અર્થ – અનિશ્ચિતતા - જોખમનું માપન - વ્યક્તિગત વર્તન અને જોખમ – જોખમ ટાળવું – જોખમ તટસ્થ – જોખમ લેનાર - અસંમિત માહિતી – પામ અને લેમનનું બજાર – નૈતિક સંકટ – પ્રતિકૂળ (વિપરિત) પસંદગી એકમ - 4 : કલ્યાણલક્ષી અર્થશાસ્ત્ર - કલ્યાણલક્ષી અર્થશાસ્ત્રનો પરિચય – પિગુના મતે કલ્યાણલક્ષી અર્થશાસ્ત્ર, પેરેટોની ઈષ્ટતમ શરતો અને સામાજિક ઈષ્ટતા - સામાજિક કલ્યાણ વિધેય - બિન-ક્ષમતા અંગે ન્યૂનતમ કલ્યાણ - અપૂર્ણ બજારની નિષ્ફળતા, ઘટતા ખર્ચ, અનિશ્ચિતતા તથા અસ્તિત્વમાં ન હોય તેવા અને અપૂર્ણ બજારો.						

Reference Books

1. Ahuja H.L., Advanced economic theory-Microeconomic Analysis, S.Chand &co. Delhi.
2. Archibald, G.C. (Ed.) (1971), Theory of the Firm, Penguin, Harmondsworth.
3. Bain, J. (1958), Barriers to New Competition, Harvard University Press, Harvard.
4. Baumol, W.J. (1982), Economic Theory and Operations analysis, Prentice Hall of India, New Delhi
5. Borch, K.H. (1968), the Economics of Uncertainty, Princeton University Press, Princeton.
6. Brian Hillier, (1997) The Economics of Asymmetric Information (Conference Papers). Palgrave Macmillan-3PL
7. Broadway, R.W. and N.Bruce (1984) Welfare Economics, Basil Blackwell, London.
8. Bronfenbrenner, M. (1979), Income Distribution Theory, MacMillan, London
9. Da Costa, G.C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
10. Deweet K.K., Modern economic theory, S.Chand and Company, New Delhi.
11. Diamond and Rothschild (Eds.) (1970), Uncertainty in Economics, Academic Press, New York.
12. Graff, J.De.V. (1957), Theoretical Nelfare Economics, Cambridge University Press, Cambridge.
13. Henderson, J.M and R.E.Quandt (1980), Micro Economic Theory: A Mathematical Approach, McGraw Hill, New Delhi.
14. Hirshleifer, J and A Glazer. (1997), Price Theory and Aplications, Prentice Hall of India, New Delhi
15. Inés Macho-Stadler and J. David Pérez-Castrillo. An Introduction to the Economics of Information: Incentives and Contracts 2nd Edition. Oxford University Press; 2 edition (May 17, 2001)
16. Koutsoyianis, A.(1979), Modern Microeconomics,(2nd Edition),Macmillan Press, London
17. Kreps, David M.(1990),A Course in Microeconomics Theory, Princeton University Press, Princeton.
18. Layard, P. R. G and A. W. Walters (1978), Microeconomic Theory, MacGraw Hill, New York.
19. Lipsey and Chrystal, Economics, Oxford University Press, New Delhi.
20. Mishan, E.J. (1969), Welfare Economics, an Assessment, North Holland, Amsterdam.
21. Prasad K.N., Lectures on micro-economic theory, Himalaya publishing house.
22. R C Joshi, Gaurang D Rami and Yogesh N Vansiya, (2016), Micro Economics, Popular Prakashan, Surat.
23. Robert S Pindyck and Daniel L Rubinfeld (2008). Microeconomics, Prentice Hall of India Private Ltd. New Delhi.
24. Samuelson, Economics, Tata Mcgraw Hill, New Delhi.
25. Sen Anindya., Microeconomics-Theory and applications, Oxford Uni. press, Delhi.
26. Seth M.L., Principles of Economics (Micro and Macroeconomics) Lakshmi Narain Agrawas. Agra.
27. Stigler, (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.
28. Stonier A and Hague D., A Textbook of Economic theory, Longman group, London.
29. Sundharam K.P.M. and Sundharam E.N., Economic Analysis, S. Chand and sons, Delhi
30. Ulrich Schwalbe. The Core of Economies with Asymmetric Information (Lecture Notes in Economics and Mathematical Systems). Springer; 1999 edition.
31. Varian. H.R (2006), Intermediate Microeconomics. A Modern Approach, W.W.Norton, (EWP)
32. Weinturb, E.R. (1974), General Equilibrium Theory, Macmillan, London.
33. એચ.કે.ત્રિવેદી, અર્થશાસ્ત્રના સિદ્ધાંતો, યુનીવર્સિટી ગ્રંથનિર્માણ બોર્ડ, અમદાવાદ.

Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROGRAM TITLE
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-1 CREDIT: 4
(Major-ECO-2) Macro Economics -2

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) • PSO2: Ability to analyze the factors affecting the price and output determination (PO1) • PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) • PSO4: Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) • PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) • PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

Subject Code [2601132101020001]

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT SYLLABUS SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27 Master of Arts (Economics) Semester-1 CREDIT: 4 (Major-ECO-2) Macro Economics -2						
Program Name	Master of Arts (Economics)					
Semester	1 (First)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major-ECO-2					
Course Level						
Course Title	Macro Economics -2					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	CO-1 : Understand the concepts of national income and social accounting CO-2 : The factors influencing the demand and supply of money CO-3 : Understand the macroeconomic parameters which control the economic policy making					
Course Content	Unit 1 : Nation Income and Social Accounting • Concept, importance, methods for calculation, limitation • Circular flow of income – two, three and four sector economy • National income and economic welfare • Social accounting – concept, importance. • House hold, Firms, government, capital account Unit 2 : Inflation, Deflation and Stagflation • Inflation, deflation-meaning. Demand pull and cost push inflation, inflationary and deflationary gap. Control of inflation • Phillips curve hypothesis, short run – long run Phillips curve, natural rate of unemployment hypothesis • Stagflation – meaning causes and measures. • Friedman – Phelps model of stagflation. Unit 3 : Demand for money and Supply of money • Demand for money – concept. Keynesian, Post Keynesian approaches-Friedman, Baumol and Tobin. • Supply of money – concept, RBI approach to money supply, factors affecting money supply, control of money supply. • High powered money and money multiplier					

	Unit 4 : Rate of interest and policies • Rate of interest – Concept, interest rate differentials • Theories : Loanable Funds, Wicksell's and Keynes • Macroeconomic policy – meaning, importance, objectives, instruments and limitations.						
Course Content	એકમ 1: રાષ્ટ્રીય આવક અને સામાજિક હિસાબી - સંકલ્પના, મહત્વ, ગણતરી અને મર્યાદાઓ - આવકનો પરિભ્રમણ પ્રવાહ - રાષ્ટ્રીય આવક અને આર્થિક કલ્યાણ - ઘરગથ્થુ, ફર્મ, સરકાર અને મૂડી ખાતા એકમ 2: મોંઘવારી, મંદી અને સ્ટેગફ્લેશન - માંગ આધારિત અને ખર્ચ આધારિત મોંઘવારી - ફિલિપ્સ વક્ર - સ્ટેગફ્લેશન – અર્થ અને ઉપાયો એકમ 3: નાણાની માંગ અને પુરવઠો - કેઈન્સીયન અને અનુ-કેઈન્સીયન અભિગમ - RBI અભિગમ - ઉચ્ચ શક્તિ ધરાવતું નાણું અને નાણાકીય ગુણાંક એકમ 4: વ્યાજદર અને નીતિઓ - લોનેબલ ફંડ, વિકસેલ અને કેઈન્સ સિદ્ધાંત - મેક્રો આર્થિક નીતિ – અર્થ અને સાધનો						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						

Reference Books	1. Acharya Shankar: (2008) Essays on macroeconomic policy and growth in India. Oxford University Press. 2. Agrawal V. (2010) Macro Economics: Theory and Policy, Dorling Kindersley (India) Pvt. Ltd. 3. Chick, V. (1977), The Theory of Monetary Policy, 2nd Ed. Basil Blackwell 4. Culbertson, J.M. (1971), Macroeconomic Theory and Stabilization Policy, McGraw-Hill, London. 5. Kumar Ranjit (2008), Research Methodology- A Step by Step Guide for Beginners, Person Education, New Delhi. 6. Murthy C (2013), Research Methodology, Vrinda Publications (P) LTD., Delhi 7. Narayanasamy N (2009), Participatory Rural Appraisal: Principles, Methods and Application, SAGE Publications India Pvt. Ltd, New Delhi 8. Panneerselvam R. (2010), Research Methodology (8th Ed.); Prentice-Hall of India Pvt. Ltd, New Delhi. 9. Popper, K.R. (1959), The Logic of Scientific Discovery, New York, NY: Basic Books. 10. Popper, K.R. (1972), Objective Knowledge, Oxford, U.K: Clarendon. 11. Sekaran Uma (2006), Research Methods for Business; Wiley India Pvt. Ltd, New Delhi. 12. Shajahan.S. (2006), Research Methods for Management, 3rd Ed.; Jaico Publishing House, Mumbai. 13. Sharma K.R (2002), Research Methodology; National Publishing House, Jaipur. 14. Tripathi P.C. (2003), A Textbook of Research Methodology in social sciences (4th Ed.); Sultan Chand & Sons, New Delhi. 15. Uwe Flick (2017), Introducing Research Methodology (2nd Ed.); Sage Publications India Private Ltd., New Delhi. 16. William M.K. (2003), Research Methodology (2nd Ed.); Biztantra, New Delhi. 17. Zikmund William G. (2004), Business Research Methods (7th Ed.); Thomson Asia Pvt. Ltd, Singapore. 18. Froyen, Richard (1998), Macroeconomics, Prentice Hall, International Editions. 19. Gupta G S: (2008) Macro Economics – Theory and Application, Tata McGraw Hill Publication Company Limited, New Delhi. 20. Gupta G S: (2008) Macro Economics: Theory and Application, Tata McGraw Hill Publication Company Limited, New Delhi. 21. Gupta S B: (2005) Monetary Economics, Vikas Publishing House. 22. Hajela T N: (2009) Macro Economic Theory. McGraw Hill, Ane book Pvt. Ltd., New Delhi. 23. Harris Laurence: (1985) Monetary Theory. McGraw Hill, International Edition. 24. Jhingan M L (2010) 12th edition, Macro Economic Theory, Vindra Publication, Delhi. 25. K.C. Rana, K.N. Verma (2017) Macro Economic Analysis, Vishal Pub. Co., Delhi. 26. Mithani D M: (2005) Money, Banking International Trade, Public Finance, Himalaya Publishing House, New Delhi. 27. Money and Banking (2005) – The ICFAI University, Hyderabad. 28. Mukharjee Sampat: (1995) Modern Economic Theory. Wishwa Prakashan, New Delhi. 29. Samuelson Paul: (1997): Economics, Tata McGraw Hill, 17th Edition.
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROGRAM TITLE
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-1 CREDIT: 4
(Major ECO-3) Quantitative Methods for Economics – 3

Name of Program	MASTER OF ARTS (ECONOMICS)	
Program Abbreviation	M.A.	
Duration	Four semesters (2 Semesters/year)	
Eligibility Criteria	B.A. Degree with Economics/B.Com	
Pre-requisite	None	
Medium of Instruction	Gujarati & English	
Objective of Program	Complete Program Objectives (Standard for M.A. Economics under NEP-2020)	
	1	To provide students with a strong foundation in the fundamental principles of microeconomics and macroeconomics.
	2	To develop analytical and critical thinking skills for understanding economic problems and policies.
	3	To enable students to understand consumer behaviour, producer behaviour, and market structures.
	4	To equip students with quantitative and graphical tools for economic analysis.
	5	To prepare students for careers in banking, finance, teaching, research, and civil services.
	6	To build a base for lifelong learning and advanced studies in economics.
	7	To develop awareness of Indian economic issues and policies.

Program Outcome (PO)	PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of economic theories, concepts, and models. PO2: Analytical Skills: Analyze economic problems using qualitative and quantitative methods. PO3: Policy Understanding: Understand and critically evaluate government economic policies. PO4: Research Aptitude: Collect, process, and interpret economic data for research purposes. PO5: Communication Skills: Articulate economic arguments effectively in written and oral form. PO6: Ethical & Social Awareness: Apply economic reasoning to social justice and sustainability issues. PO7: Life-Long Learning: Develop ability to understand dynamic economic changes in the real world.							
Program Specific Outcomes (PSO)	PSO1: Understand foundational theories of micro and macroeconomics. PSO2: Analyze demand, supply, and market equilibrium in different market structures. PSO3: Apply consumer behavior theories to understand purchasing decisions. PSO4: Evaluate production, cost, and revenue functions for business decision-making. PSO5: Use statistical and graphical tools for economic analysis. PSO6: Relate economic theories to real-world Indian economic issues.							
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	PO1	3	3	3	3	2	3	
	PO2	2	3	2	2	3	3	
	PO3	2	3	1	1	2	3	
	PO4	1	2	1	1	3	2	
	PO5	1	1	1	1	2	2	
	PO6	2	2	2	1	1	3	
	PO7	3	3	2	2	2	3	
	Mapping Scale is a standardized scale used to show how strong the relationship is between a specific Course Outcome (CO) and a specific Program Specific Outcome (PSO).							
Scale Value		Meaning			Explanation			
3		High Mapping			The CO is highly effective in achieving the PSO. Almost the entire unit is related to this PSO.			
2		Medium Mapping			The CO is moderately effective in achieving the PSO. Some parts are related, some are not.			
1		Low Mapping			The CO is less effective in achieving the PSO. A very small portion is related.			

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Program Name	Master of Arts (M.A.)							
Semester	1							
NCrF Credit Level	6							
Course Type	Major							
Course Subtype	Core Discipline Subject							
Subject Type	Discipline Specific							
Course Code	Major ECO-3							
Course Level								
Course Title	Quantitative Methods for Economics – 3							
Credit	Theory:04		Practical: --				Total:04	
Effective From	Academic Year: 2026-27							
Course Outcomes	CO1	Understand the basic mathematical and statistical concepts of Quantitative Economics and apply them in Economics.						
	CO2	Solve different types of equations and functions and use them in economic analysis.						
	CO3	Collect, classify, tabulate, and present data using diagrams and graphs.						
	CO4	Apply sampling methods and statistical tools in research.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	CO1	2	2	1	1	3	1	
	CO2	2	3	2	3	3	1	
	CO3	1	2	1	1	3	2	
	CO4	1	2	1	2	3	3	

Course Content

Unit-1: Elementary Mathematics and Equations

(Weightage: 25%)

Number system: Whole Numbers, Integers, Fractions, Decimals system, Rational and Irrational Numbers, Real Numbers, Algebraic Expression. Definition of Exponents, Law of Exponents, Definition of Equation, Types of Equations, Linear Equation and its Application in Economics. Simultaneous Equation and its Application in Economics, **Quadratic Equations**, Cubic Equation and Exponential Equation and its application in Economics

Unit-2: Single Variable Function and Multivariable Functions:

(Weightage: 25%)

Definition of Function, Types of Functions, linear functions, Graphs of linear functions. Applications of linear functions in Economics. Homogenies Function, Constant elasticity of substitution CES Function. Concepts of Quadratic functions, Cubic functions and Exponential functions, graphs, and applications of all functions in Economics.

Unit-3: Introduction of Statistics, Sampling Methods and Data Collection

(Weightage: 25%)

Meaning and Definition of Statistics, Relation between Statistics and other Sciences, Importance, Functions and Limitation of Statistics, Definition, Distinguishing Between a Sample and a Population, Probability Sampling Methods (Simple Random Sampling, Systematic Sampling, Stratified Random Sampling, Cluster Sampling), Non-Probability Sampling Methods (Convenience Sampling, Quota Sampling, Judgemental sampling, Snowball Sampling), Methods of Primary Data collection. Sources Secondary data, Questionnaire Methods

Unit-4: Data Classification, Tabulation, Frequency Distribution and Graphical Representation of Data with Diagram and Chart

(Weightage: 25%)

Meaning of Classification, Types of Classification, Tabulation, Simple Tabulation and Complex Tabulation, Uses of Tabulation. Continues Frequency Distribution and Discreet Frequency Distribution, Uses of Diagram, Types of Diagram - Simple Bar Diagram, Multiple Bar Diagram, Sub-Divided Bar Diagram or Component Bar Diagram, Percentage Bar Diagram, Pie Diagram. Bar Charts, Line charts, Pie charts, Histograms, Scatter plots, Frequency Curves.

એકમ- ૧. પ્રારંભિક ગણિત અને સમીકરણો

(Weightage: 25%)

સંખ્યા પદ્ધતિ - પૂર્ણ સંખ્યાઓ, પૂર્ણાંકો, અપૂર્ણાંકો, દશાંશ પદ્ધતિ, સંમેય અને અસંમેય સંખ્યાઓ, વાસ્તવિક સંખ્યાઓ, બીજગણિત પદાવલિ, ઘાતાંકની વ્યાખ્યા, ઘાતાંકના નિયમો,

સમીકરણની વ્યાખ્યા, સમીકરણોના પ્રકારો, સુરેખ સમીકરણો અને તેનો અર્થશાસ્ત્રમાં ઉપયોગ. યુગપત સમીકરણ અને તેનો અર્થશાસ્ત્રમાં ઉપયોગ, દ્વિઘાત સમીકરણ ઉકેલવાની પદ્ધતિઓ, અર્થશાસ્ત્રમાં દ્વિઘાત સમીકરણનો ઉપયોગ.

એકમ- ૨. એકચલ વિધેય અને બહુવિધ વિધેય:

(Weightage: 25%)

વિધેયની વ્યાખ્યા, વિધેયના પ્રકાર, સુરેખ વિધેય, સુરેખ વિધેયના આલેખ. વિધેયનો અર્થશાસ્ત્રમાં ઉપયોગ. સમપરિમાણ વિધેય, અચલ અવેજીની મુલ્યસાપેક્ષતા વિધેય (CES), દ્વિઘાત વિધેય, ત્રિઘાત વિધેય અને ઘાતાંકીય વિધેયનો ખ્યાલ, આલેખ અને અર્થશાસ્ત્રમાં તમામ વિધેયનો ઉપયોગ.

એકમ- ૩. આંકડાશાસ્ત્રનો પરિચય, નિદર્શન પદ્ધતિઓ અને માહિતીનું એકત્રીકરણ

(Weightage: 25%)

આંકડાશાસ્ત્રનો અર્થ અને વ્યાખ્યા, આંકડાશાસ્ત્ર અને અન્ય વિજ્ઞાનો વચ્ચેનો સંબંધ, આંકડાશાસ્ત્રનું મહત્વ, કાર્યો અને મર્યાદાઓ, નિદર્શ (Sample) અને સમષ્ટિ (Population) વચ્ચેનો તફાવત. સંભાવના નિદર્શન પદ્ધતિઓ (સરળ નિદર્શન પદ્ધતિ, સિસ્ટેમેટિક નિદર્શન પદ્ધતિ, સ્તરીય નિદર્શન પદ્ધતિ, ગુચ્છ નિદર્શન પદ્ધતિ), અસંભાવ્યતા નિદર્શન પદ્ધતિઓ (સુવિધા આધારિત નિદર્શન પદ્ધતિ, કોટા નિદર્શન પદ્ધતિ, નિર્ણયાત્મક નિદર્શન પદ્ધતિ, સ્નોબોલ નિદર્શન પદ્ધતિ), પ્રાથમિક માહિતી એકત્રિત કરવાની પદ્ધતિઓ, ગૌણ માહિતીના સ્ત્રોતો, પ્રશ્નાવલી રીત.

એકમ- ૪. માહિતીનું વર્ગીકરણ, કોષ્ટક રચના અને આવૃત્તિ વિતરણ, માહિતીનું આકૃતિઓ અને આલેખ દ્વારા

રજૂઆત.

(Weightage: 25%)

વર્ગીકરણ નો અર્થ અને પ્રકાર, કોષ્ટક રચના – સાદું કોષ્ટક અને જટિલ કોષ્ટક, કોષ્ટક રચનાનો ઉપયોગ, સતત આવૃત્તિ વિતરણ અને અસતત આવૃત્તિ વિતરણ, આકૃતિઓનો ઉપયોગ, આકૃતિઓના પ્રકાર – સાદી સ્તંભ આકૃતિ, બહુવિધ સ્તંભ આકૃતિ, વિભાજિત સ્તંભ આકૃતિ, પ્રતિશત સ્તંભ આકૃતિ, વર્તુળ આકૃતિ, સ્તંભ આલેખ, રેખા આલેખ, વર્તુર આલેખ, સતત આવૃત્તિ વિતરણના સ્તંભ આલેખ (હિસ્ટોગ્રામ), વિકીર્ણ આલેખ, આવૃત્તિ વક્રો.

Reference

Books

References: (for Statistics)

1. A L Nagar and R K Das (1983): Basic Statistics, Oxford University Press, New Delhi, 2nd Ed.
2. Chandan J (1998): Statistics for Business and Economics, Vikas Publishing House, New Delhi
3. Dave M.B, Pandya K, Gaurang rami and Dilip Varsani (2014-15) Quantitative Methods of Economics, Popular, Surat (Gujarati)
4. G S Monga (2000): Mathematics and Statistics for Economics, Vikas Publishing House, New Delhi, 2nd Ed.
5. G V Shenoy & Late. Madan Pant (1994) Statistical Methods In Business And Social Sciences, Macmillan India Pvt. Ltd, New Delhi
6. Jaiswal M.C.; (1974) Arthvishayak Ankadashastra, Uni. Granthnirman Board, Ahmadabad (Gujarati)
7. K K Sharma & Sukhpal Singh (2000): Introductory Economic Theory And Elementary Statistics, Abhishek Publications, Chandigarh
8. Michael C FLEMING & Joseph G Nellis (1997): The Essence Of Statistics For Business, Prentice Hall of India Pvt. Ltd., New Delhi, 2nd Ed.
9. Nagar A L (1997): Basic Statistics, Oxford University Press, New Delhi, 15th Ed.
10. Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmadabad. (Gujarati)
11. Patel R.K. & Patel L.B.; Business Statistics, C. Jamanadas Co. Ahmadabad. (Gujarati)
12. R H Hooda (2000): Statistics For Business and Economics, Macmillan India Pvt. Ltd., New Delhi
13. Richard I Levin & David S Rubin (2000) Statistic for Management, Prentice Hall of India Ltd, 7th Ed.
14. Richard J. Larsen and Morris L. Marx, an Introduction to Mathematical Statistic and its Applications, Prentice Hall, 2011.
15. Zala M.L.; (1996) Arthshastrama Ganitshastra, Purbiti Prakashan, Vallabh Vidyanagar. (Gujarati)

References: (for Mathematics)

1. A S Ramsastri (2000): Quantitative Methods for Valuation of Financial Assets, Response Books, New Delhi.

	2. Anthony & Biggs (2000): Mathematics For Economics and Finance, Cambridge Uni. Press 3. Berry Tanuj (1994): Mathematical Method For Economics, Archetypal Publications, New Delhi 4. Edward T Dowling (1992): Theory and Problems of Introduction Mathematical Economics, Schaum's Outline Series McGraw-Hill, New York. 5. Edward T Dowling (2001): Mathematical Methods for Business and Economics, Schaum, s Outline Series McGraw-Hill, New York. 6. F M Wilkes (1999): Mathematics for Business Finance and Economics, International Thomson Business Press, London; 2nd Ed. 7. G S Monga (2000): Mathematics and Statistics for Economics, Vikash Publications, New Delhi 2nd Ed. 8. H A Spooner & D A L Wilson (1997): The Essence of Mathematics For Business, Prentice Hall of India Pvt Ltd, New Delhi 9. Hooda R PN (1994): Statistics for Business and Economics, Macmillan., New Delhi 10. Martin Anthony and Norman Biggs (2000): Mathematics For Economics And Finance Methods and Modeling, Cambridge University Press, New York, 3rd ED. 11. R G D Allan (2000): Mathematical Analysis for Economics, Macmillan, Delhi, 7th ED. 12. R G S Bharadwaj (2000): Mathematics For Economics and Business, Excel Books, New Delhi 13. Siegel S (1956) No parametric Statistics, Tata McGraw-Hill, New York.
Teaching Methodology	• Lectures (Chalk & Talk / PPT) • Case studies, Field Survey Demonstration, • Practical Demonstrations, Hands-on Training using Excel/SPSS, Data Analysis Exercises, Classroom Workshops, Diagram and Graph Construction Activities.
Evaluation Method	Internal Assessment: ____50____ Marks External Assessment: ____ 50____ Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS
Master of Arts (Economics)
MAJOR ECO-4(A) Industrial Economics - 4

Program Name	Master of Arts (Economics)						
Semester	Semester-1						
NCrF Credit Level	6						
Course Type	Major paper-4(A)						
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)						
Subject Type	Discipline Specific / Intra-disciplinary / Emerging Technology / Vocational Education etc. (Specify the relevant Subject Type)						
Course Code	MAJOR ECO-4(A)						
Course Level							
Course Title	Industrial Economics - 4						
Credit	Theory:	4	Practical:	-	Total:	4	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 – Understand the nature and scope of industrial economics and the relationships between firms, industries and markets and understand the differences between firms. CO2 – Students will be able to analyse different market structures and evaluate the impact of industrial competition on the market. CO3 – Students will be able to understand the goals and principles of the firm and understand its importance and application in the development of industry. CO4 – Identify problems related to industrial development and suggest practical solutions.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Course Content	Unit - 1 Industrial Economics - Introductions 25% - Industrial Economics: Meaning, Form and scope - Relation between firm, industry and market - Types of firms (Personal ownership firm, partnership firm, corporate firm, multinational firm – meaning of each, features, advantages, disadvantages - Startup and unicorn firms: definition, features, advantages-disadvantage, difference between both						

	Unit – 2 Market Structure and Competitive Conditions 25% ▪ Meaning of Market Structure, and Main Types (Perfect Competition, Monopoly, Monopolistic Competition, Monopoly- Meaning and Features) ▪ Concentration of Sellers ▪ Entry Barriers ▪ Product Differentiation: Meaning, Types and Importance ▪ Network Effect: Meaning and Types and Platform Market: Meaning, Features, Competitive Effects ▪ Merger: Meaning, Types, Advantages-Disadvantages Unit – 3 : Firm Behaviour, Strategy Formation and Principles 25% ▪ Goals and Principles of the Firm: Bomal, Maris, Williamson ▪ Priced Policies: Costs plus Policy, Initial High Price Policy, Early Low Price Policy, Different Price Policy ▪ Innovation: Meaning and Type, Importance in Industry Development ▪ Digital Strategies : AI-Artificial Intelligence, IoT-Internet of Things, Robotics-Robot Technology - Each Means, Use and Benefit Unit – 4 Industrial Performance and Analysis 25% ▪ Economies of scale : Meaning, Type, Advantage-Disadvantage ▪ Industrial Productivity: Meaning, Measurement Methods, Affecting Factors, Causes of Low Productivity and Solution in India) ▪ Industrial Localization: Meaning, Factors, affecting, Theory - Weber, Sergeant Florence ▪ Industrial Imbalance: Meaning, Causes, Solution યુનિટ -1 ઔદ્યોગિક અર્થશાસ્ત્ર - પરિચય 25% ▪ ઔદ્યોગિક અર્થશાસ્ત્ર : અર્થ, સ્વરૂપ અને કાર્યક્ષેત્ર ▪ પેઢી, ઉદ્યોગ અને બજાર વચ્ચેનો સંબંધ ▪ પેઢીના પ્રકારો : વ્યક્તિગત માલિકીની પેઢી, ભાગીદારી પેઢી, કોર્પોરેટ પેઢી, બહુરાષ્ટ્રીય પેઢી – દરેકનો અર્થ, લાક્ષણિકતાઓ, લાભ-ગેરલાભ ▪ સ્ટાર્ટઅપ અને યુનિકોર્ન પેઢીઓ : વ્યાખ્યા, લક્ષણો, લાભ-ગેરલાભ, બંને વચ્ચેનો તફાવત યુનિટ -2 બજાર માળખા અને સ્પર્ધાત્મક પરિસ્થિતિઓ 25% ▪ બજાર માળખાનો અર્થ અને મુખ્ય પ્રકારો (પૂર્ણ હરીફાઈ, ઈજારો, ઈજારયુક્ત હરીફાઈ, અલ્પ હસ્તક ઈજારો- અર્થ અને લક્ષણો) ▪ વેચનારનું કેન્દ્રીકરણ ▪ પ્રવેશ અવરોધો ▪ ઉત્પાદનમાં ભિન્નતા: અર્થ, પ્રકાર અને મહત્વ ▪ નેટવર્ક ઇફેક્ટ : અર્થ, પ્રકાર અને પ્લેટફોર્મ માર્કેટ : અર્થ, લક્ષણો, સ્પર્ધાત્મક અસરો ▪ મર્જર : અર્થ, પ્રકાર, લાભ-ગેરલાભ યુનિટ -3 પેઢીનું વર્તન, વ્યૂહ રચના અને સિદ્ધાંતો 25%
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	- પેઢીના ધ્યેયો અને સિદ્ધાંતો : બોમલ, મારીસ, વિલિયમ્સન - કિંમતી નીતિઓ : ખર્ચ વત્તા નીતિ, પ્રારંભિક ઊંચી કિંમત નીતિ, પ્રારંભિક નીચી કિંમત નીતિ, ભિન્ન કિંમત નીતિ - નવીનીકરણ : અર્થ અને પ્રકાર, ઉદ્યોગ વિકાસમાં મહત્વ - ડિજિટલ વ્યૂહરચનાઓ : AI-કૃત્રિમ બુદ્ધિ, IoT- ઈન્ટરનેટ ઓફ થિંગ્સ, Robotics- રોબટ ટેકનોલોજી - દરેકનો અર્થ, ઉપયોગ અને લાભ યુનિટ -4 ઔદ્યોગિક કામગીરી અને વિશ્લેષણ 25% - કદ માપની કરકસર: અર્થ, પ્રકાર, લાભ-ગેરલાભ - ઔદ્યોગિક ઉત્પાદકતા : અર્થ, માપનની પદ્ધતિઓ, અસર કરતા પરિબળો, ભારતમાં નીચી ઉત્પાદકતાના કારણો અને ઉકેલ સૂચનો) - ઔદ્યોગિક સ્થાનીયકરણ: અર્થ, અસર કરતા પરિબળો, સિદ્ધાંતો - વેબર, સાર્જન્ટ ફ્લોરેન્સ ઔદ્યોગિક અસમતુલા : અર્થ, કારણો, ઉકેલ
Reference Books	- વી. સી. સિંહા (2009) – <i>ઔદ્યોગિક અર્થશાસ્ત્ર</i>, લોકભારતી પ્રકાશન, અલ્હાબાદ. - દીપક શાહ (2017) – <i>ઔદ્યોગિક અર્થશાસ્ત્ર</i>, યુનિફાઇડ પબ્લિકેશન, અમદાવાદ. - સી. બી. મુલાણી (2020) – <i>ઔદ્યોગિક અર્થશાસ્ત્ર</i>, મધુપ્રકાશન, રાજકોટ. - R.R. Barthwal (2010) – <i>Industrial Economics: An Introductory Textbook</i>, New Age International Publishers, New Delhi. - D.M. Mithani (2008) – <i>Industrial Economics</i>, Himalaya Publishing House, Mumbai. - S.C. Kuchhal (2007) – <i>Industrial Economy of India</i>, Vikas Publishing House, New Delhi. - Francis Cherunilam (2014) – <i>Industrial Economics: Indian Perspective</i>, Himalaya Publishing House, Mumbai. - Government of India (1991) – <i>New Industrial Policy</i>, Ministry of Industry, New Delhi. - Ministry of MSME (2023) – <i>Annual Report 2022–23</i>, Government of India, New Delhi. - NITI Aayog (2022) – <i>Report on Industrial Corridors</i>, NITI Aayog Publications, New Delhi. - SEBI (2023) – <i>Annual Report</i>, Securities and Exchange Board of India, Mumbai. - Reserve Bank of India (RBI) (2023) – <i>Report on Trend and Progress of Banking in India</i>, RBI Publications, Mumbai. - Startup India (2023) – <i>Handbook for Startups</i>, DPIIT, Ministry of Commerce & Industry, Government of India. - ICICI, IDBI, SIDBI & IFCI – Annual Reports (Latest Editions), Official Websites.
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment : ____50____ Marks External Assessment : ____50____ Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

PROGRAM TITLE

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

**Master of Arts (Economics) Semester-1 CREDIT: 4
(Major ECO- 4(B)) Agriculture Economics - 4**

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A						
Duration	2 Years						
Eligibility Criteria	Graduate						
Pre-requisite							
Medium of Instruction	English/Gujarati						
Objective of Program	- The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy - To prepare the students to undertake theoretical						
Program Outcome (PO)	PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	PSO1: Demonstrate a comprehensive understanding of the nature, scope, principles, and relevance of agricultural economics within the broader economic system. PSO2: Analyze agricultural production, resource use, cost patterns, market behavior, and price determination using economic theory and applied reasoning. PSO3: Evaluate welfare, equity, sustainability, and livelihood implications of agricultural policies, rural development programmes, and market systems. PSO4: Examine sectoral growth and development using macroeconomic, fiscal, environmental, technological, and social indicators affecting agriculture and rural economy. PSO5: Apply research methodology, quantitative tools, statistics, and econometric techniques to investigate agricultural and rural development issues and support evidence-based decision-making. PSO6: Critically understand and analyze the structure, conduct, and performance of agriculture and allied sectors (livestock, dairy, fisheries, forestry, agribusiness, and value chains), and interpret their role in economic development and employment creation.						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-1 CREDIT: 4
(Major ECO- 4(B)) Agriculture Economics - 4

Program Name	Mater of Arts					
Semester	I					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development					
Subject Type	Discipline Specific					
Course Code	Major ECO- 4(B)					
Course Level						
Course Title	Agricultural Economics -4					
Credit	Theory:	4	Practical:	-	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	CO1: Understand the nature, scope, importance and foundational concepts of agricultural economics and its role in national economic development. CO2: Analyse various theoretical models of agricultural development and evaluate their applicability to developing and emerging economies. CO3: Examine concepts, practices, and challenges of sustainable agriculture, organic farming, greenhouse farming, and allied sector development. CO4: Apply principles of production economics, resource use efficiency, and cost concepts for effective agricultural decision-making and farm management. CO5: Assess the adoption, diffusion, and impact of modern agricultural technologies under conditions of risk and uncertainty. CO6: Critically evaluate farm organization systems, corporate farming, contract farming, and the farm size–productivity relationship in contemporary agriculture.					
Course Content	Unit – 1 : Introduction to Agricultural Economics • Nature and Scope of Agricultural Economics • Role of Agriculture in Economic Development • Special Characteristics of The Primary Sector • Interdependence Between Agriculture and the Rest of The Economy • Agriculture Statistics in India: Coverage, Sources and Reliability Unit – 2 : Models of Agricultural Development • Transformation of Traditional Agriculture: The Schultizian Theory • Mellor’s Theory of Agriculture Development					

	• Boserup's Theory of Agriculture Development • Lewis Model of Economic Development • Ranis-Fei Model of Economic Development • Nelson's Low Level Equilibrium Trap Theory Unit – 3 : Sustainable Agriculture Development • Sustainable Agriculture Development (Samposhit Krushi Vikas) • Organic Farming • Green House Farming • Development and Problems of Agricultural Allied Activities • Forest Resources • Environment Problems and Agriculture • Biodiversity Unit – 4 : Topic of Production Economics; Cost and Farm Management • Introduction • Efficiency of Resource Use • Technological Change • Risk and Uncertainty • Dualism • Cost Concept • Farm Management • Farm Organization • Corporate Agriculture • Contract Farming • Farm Size and Productivity Debate
Course Content (ગુજરાતી આવૃત્તિ)	એકમ – ૧ : કૃષિ અર્થશાસ્ત્રનો પરિચય • કૃષિ અર્થશાસ્ત્રનું સ્વરૂપ અને કાર્યક્ષેત્ર • આર્થિક વિકાસમાં કૃષિની ભૂમિકા • પ્રાથમિક ક્ષેત્રની લાક્ષણિકતાઓ • કૃષિ અને અર્થતંત્રના અન્ય ક્ષેત્રો વચ્ચેનું આંતર-અવલંબન • ભારતમાં કૃષિ આંકડાશાસ્ત્ર: વ્યાપ, સ્ત્રોત અને વિશ્વસનીયતા એકમ – ૨ : કૃષિ વિકાસના મોડેલો • પરંપરાગત ખેતીનું પરિવર્તન: શુલ્કઝનો સિદ્ધાંત • મેલોરનો કૃષિ વિકાસનો સિદ્ધાંત • બોઝરપનો કૃષિ વિકાસનો સિદ્ધાંત • આર્થિક વિકાસનું લુઈસ મોડેલ • રાનીસ-ફેઈનું આર્થિક વિકાસનું મોડેલ • નેલ્સનનો નિમ્ન સ્તરની સમતુલા માટે એક જાળનો સિદ્ધાંત એકમ – ૩ : ટકાઉ (સંપોષિત) કૃષિ વિકાસ • સંપોષિત કૃષિ વિકાસ • સજીવ ખેતી (ઓર્ગેનિક ફાર્મિંગ) • ગ્રીન હાઉસ ખેતી • કૃષિ સંબંધિત (પૂરક) પ્રવૃત્તિઓનો વિકાસ અને સમસ્યાઓ • વન સંસાધનો • પર્યાવરણની સમસ્યાઓ અને કૃષિ • જૈવવિવિધતા

	16. Galati, A., & Kelley, T. (1999). <i>Trade liberalization and Indian agriculture</i>. Oxford University Press. 17. Gautam, M. (2021). <i>Agriculture in India – Crisis and prospects</i>. Rawat Publications. 18. Ghose, A. (2011). <i>Globalisation, agriculture growth and food security in India</i>. Deep & Deep Publications Pvt. Ltd. 19. Haque, T., Charan, A. S., & Sirohi. (1986). <i>Agrarian reforms and institutional changes in India</i>. Concept Publishing Company. 20. જોશી, ભા. હ. (1999). <i>ભારતનું કૃષિક્ષેત્ર: વિકાસ અને પડકારો</i> (પ્રથમ આવૃત્તિ). યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ. 21. Joshi, B. H. (1992). <i>An analytical approach to problems of Indian agriculture: A theoretical and system approach</i>. BR Publishing Corporation. 22. Kumar, D., & Raza, A. (2011). <i>Agriculture and food security – Contemporary issues</i>. Deep & Deep Publications Pvt. Ltd. 23. Maheta, R. S. (1982). <i>કૃષિ અર્થશાસ્ત્રના સિદ્ધાંતો અને વ્યવસ્થા</i> (પ્રથમ આવૃત્તિ). યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ. 24. Pandya, K. (1996). <i>Agrarian structure, new technology and labour in India</i>. Himalaya Publishing House. 25. Raju, V. T., & Rao, D. V. S. (2024). <i>Economics of farm production and management</i>. CBS Publishers & Distributors Pvt. Ltd. 26. Shrivastava, M. P., & Singh, J. (2008). <i>Dairy development in the new millennium – The second white revolution</i>. Deep & Deep Publications Pvt. Ltd. 27. Shrivastava, P. (2022). <i>Rural economics</i>. Empire Books International. 28. Soni, R. N., & Malhotra, S. (2024). <i>Leading issues in agricultural economics</i> (14th ed.). Vishal Publications Co. 29. Subba Reddy, S., Raghu Ram, P., Neelakanta Sastry, T. V., & Bhavani Devi, I. (2016). <i>Agricultural economics</i> (2nd ed.). CBS Publishers & Distributors Pvt. Ltd. 30. Thakur, A. K., & Akhtar, S. M. J. (2012). <i>Non-farm sector and rural transformation</i>. Deep & Deep Publications Pvt. Ltd. 31. Thakur, A. K., & Padmadeo, K. B. (2008). <i>Growth and diversification of agriculture</i>. Deep & Deep Publications Pvt. Ltd. 32. Thakur, A. K., & Sharma, P. (2011). <i>Economic reforms and agriculture development</i>. Deep & Deep Publications Pvt. Ltd. 33. વાંસિયા, વાઘ. એન., & જોશી, આર. સી. (2015). <i>ભારતીય કૃષિના પ્રશ્નો અને નીતિ</i> (પ્રથમ આવૃત્તિ). પોપ્યુલર પબ્લિકેશન.
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: 50 Marks External Assessment: 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

PROGRAM TITLE

(MAJOR ECO-4(C)) Economics of Human Resources - 4

Name of Program	Master of Arts (Economics)							
Program Abbreviation	M. A. (Economics)							
Duration	Two Year (4 Semester)							
Eligibility Criteria	Any Graduates / B.A. with Economics (Major)							
Pre-requisite	B.A. with Economics (Major)							
Medium of Instruction	Gujarati / English							
Program Outcome (PO)	PO1: Advanced Economic Core & Theoretical Mastery PO2: Quantitative and Econometric Proficiency PO3: Policy Evaluation and Analytical Skills PO4: Socio-Economic Investigation and Field Research PO5: Sectoral and Human Capital Development Insight PO6: Sustainable and Ethical Socio-Economic Action PO7: Professional Employability and Communication Skills							
Program Specific Outcomes (PSO)	PSO1: Regional and Sectoral Economic Appraisal PSO2: Empirical Econometric Modeling and Time-Series Analysis PSO3: Social Sector and Human Resource Evaluation PSO4: Institutional Policy Formulation and Advocacy PSO5: Financial Systems, Monetary Intermediation, and Tax Analysis PSO6: Environmental Economics, Blue Economy, and Sustainable Appraisal PSO7: Advanced Applied Research Synthesis and Social Science Inquiry							
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
	PO1	3			3	3		
	PO2		3					3
	PO3				3	3		
	PO4	3		3				3
	PO5	3		3				
	PO6			3			3	
	PO7		3		3			3

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Master of Arts (Economics)																																																														
Semester	Semester - I																																																														
NCrF Credit Level	6																																																														
Course Type	Major																																																														
Course Subtype	Employability																																																														
Subject Type	Discipline Specific																																																														
Course Code	HR:4 (C)																																																														
Course Level																																																															
Course Title	Economics of Human Resources - 4																																																														
Credit	Theory:	04	Practical:		00	Total:	04																																																								
Effective From	Academic Year : 2026-2027																																																														
Course Outcomes	CO1 - Differentiate between the core concepts of human capital and human resources. CO2 - They will be able to analyse human development using indices like the HDI and MPI. CO3 - Students will evaluate education's role as an investment in major economic growth models (e.g., Lucas Model) and its social externalities. CO4 - They will be equipped to assess policy issues related to human resource planning, educational finance, privatization, skill development, and the impact of Brain Drain. CO5 – Evaluate the broader non-economic benefits and social returns that education contributes to society. CO6 – Students will be able to contrast and compare human capital against physical assets and capital.																																																														
Mapping between Cos and PSOs	<table border="1"> <tr> <td></td><td>PSO1</td><td>PSO2</td><td>PSO3</td><td>PSO4</td><td>PSO5</td><td>PSO6</td><td>PSO7</td></tr> <tr> <td>CO1</td><td>2</td><td></td><td>3</td><td></td><td></td><td></td><td></td></tr> <tr> <td>CO2</td><td>3</td><td>2</td><td>3</td><td>2</td><td></td><td></td><td>2</td></tr> <tr> <td>CO3</td><td>2</td><td></td><td>3</td><td>2</td><td></td><td></td><td>2</td></tr> <tr> <td>CO4</td><td>3</td><td></td><td>3</td><td>3</td><td>2</td><td></td><td>2</td></tr> <tr> <td>CO5</td><td></td><td></td><td>3</td><td>2</td><td></td><td></td><td></td></tr> <tr> <td>CO6</td><td>2</td><td></td><td>3</td><td></td><td></td><td></td><td></td></tr> </table>		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	CO1	2		3					CO2	3	2	3	2			2	CO3	2		3	2			2	CO4	3		3	3	2		2	CO5			3	2				CO6	2		3										
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7																																																								
CO1	2		3																																																												
CO2	3	2	3	2			2																																																								
CO3	2		3	2			2																																																								
CO4	3		3	3	2		2																																																								
CO5			3	2																																																											
CO6	2		3																																																												
Course Content	UNIT-1: CONCEPT OF HUMAN CAPITAL AND HUMAN RESOURCES • Concept of Human Capital and Human Resources. • Characteristics and aspects of Human Capital. • Comparison between Human Capital and Physical Capital.																																																														

	- Human development: Definition - Human Development and It's Related Indices: Human Development Index (HDI), Gender Development Index (GDI), Gender Empowerment Measures (GEM), Gender Inequality Index (GII), Multi-dimensional Poverty Index, Happiness Index (HI). - UN's Sustainable Development Goals and Education. UNIT-2: EDUCATION AND ECONOMIC DEVELOPMENT Education as an Engine of Growth - The Role of Human Capital: Human Capital Formation and its measurement (e.g., years of schooling, cognitive skills) - Education as an Investment that increases labour productivity and output. - Theories of Development and Education: Examining the role of human capital in major growth models - Augmented Neoclassical Models (e.g., Solow-Swan Model) with human capital -Endogenous/New Growth Theories (Lucas Model) - Non-Economic Benefits (Externalities): The social returns to education (e.g., improved health, lower crime, better governance, social cohesion, and democratic participation) that contribute to broader development. UNIT -3: HUMAN RESOURCES AND DEVELOPMENT - Indicators of Human development: Educational Indicators - Planning for Human resources and manpower assessment and forecasting - techniques and methods - Brain Drain - concept and classification magnitude - the pull and push factors of brain drain. UNIT-4: EDUCATIONAL FINANCE AND CHALLENGES - Sources and state of Financing Education - Knowledge Commission of India - Education Policy in India: An overview of NEP 2020 and earlier policies - Privatization of Education: Challenges and opportunities - Skill development in India: challenges and opportunities.
Course Content	યુનિટ-1: માનવ મૂડી અને માનવ સંસાધનોનો ખ્યાલ - માનવ મૂડી અને માનવ સંસાધનોનો ખ્યાલ. - માનવ મૂડીની લાક્ષણિકતાઓ અને પાસાંઓ - માનવ મૂડી અને ભૌતિક મૂડી વચ્ચે તુલના

	- માનવ વિકાસ: વ્યાખ્યા - માનવ વિકાસ અને તેના સંબંધિત સૂચકાંકો: માનવ વિકાસ આંક (HDI) ,જાતિ વિકાસ સૂચકાંક (GDI) ,જાતિ સશક્તિકરણ સૂચકાંક (GEM) ,જાતિ અસમાનતા આંક (GII) ,બહુઆયામી ગરીબાઈ આંક (MPI) , સુખાકારી આંક (Happiness Index HI) - સંયુક્ત રાષ્ટ્રના ટકાઉ વિકાસ લક્ષ્યો (SDGs) અને શિક્ષણ. યુનિટ-2: શિક્ષણ અને આર્થિક વિકાસ વિકાસના એન્જિન તરીકે શિક્ષણ – માનવ મૂડીની ભૂમિકા: માનવ મૂડીનું નિર્માણ અને તેનું માપન (e.g., શાળાકીય અભ્યાસના વર્ષો, જ્ઞાનાત્મક કૌશલ્યો) - શ્રમ ઉત્પાદકતા અને ઉત્પાદનમાં વધારોએ શિક્ષણ એક રોકાણ તરીકે. - વિકાસ અને શિક્ષણના સિદ્ધાંતો: મુખ્ય વિકાસ મોડેલોમાં માનવ મૂડીની ભૂમિકાનું નિરીક્ષણ ,માનવ મૂડી સાથે સંબંધિત નિયોકલાસિકલ મોડેલો (દા.ત., સોલો-સ્વાન મોડેલ) ,આંતરિક/નવપ્રશિષ્ટ સિદ્ધાંતો (લુકાસ મોડેલ). - બિન-આર્થિક લાભો (બાહ્યતા): શિક્ષણના સામાજિક વળતર (દા.ત., સુધારેલ આરોગ્ય, નીચો અપરાધ દર, સારું શાસન, સામાજિક સુસંગતતા અને લોકશાહી ભાગીદારી) જે વ્યાપક વિકાસમાં યોગદાન આપે છે. યુનિટ-3: માનવ સંસાધન અને વિકાસ - માનવ વિકાસના સૂચકાંકો: શૈક્ષણિક સૂચકાંકો - માનવ સંસાધનો માટે આયોજન અને માનવશક્તિનું મૂલ્યાંકન અને પૂર્વાનુમાન - તકનીકીઓ અને પદ્ધતિઓ. - બુદ્ધિધન ધોવાણ: ખ્યાલ અને વર્ગીકરણનું કદ - બુદ્ધિધન ધોવાણના આકર્ષણ (Pull) અને અનાઆકર્ષણ (Push) પરિબલો . યુનિટ-4: શૈક્ષણિક નાણાં અને પડકારો - શિક્ષણના ધિરાણના સ્ત્રોતો અને સ્થિતિ - ભારતનું જ્ઞાન આયોગ. - ભારતમાં શિક્ષણ નીતિ: નવી શિક્ષણ નીતિ ૨૦૨૦ અને અગાઉની નીતિઓની ઝાંખી - શિક્ષણનું ખાનગીકરણ: પડકારો અને તકો. ભારતમાં કૌશલ્ય વિકાસ: પડકારો અને તકો.
Reference Books	I, V. (2006). Definition and Content Interpretation of Human Capital. Annals. Computer Science Series, 4. Mehta, M. M. (1976). Human resources developing planning with special reference to asia andfar east. The author. Mei Foong, W. (2015). Human Capital and Economic Growth in Developing Countries. Psacharopoulos, G., & Patrinos, H. (2002). Returns to Investment in Education: Education Economics, Taylor and Francis Journals, 12. THE 17 GOALS Sustainable Development. (n.d.). Retrieved December 4, 2025, from

	https://sdgs.un.org/goals Nagpal C.S. & Mittal A. C.(eds) (1993) Economics of Education, Anmol Publications, New Delhi Naik P.K(2015). "Globalisation and its Impact on Higher Education in India" International Journal of Humanities and management Sciences. Vol. 3(6). ISSN Online 2320-4044. Pandit, H. N Measurement of cost Productivity & Efficiency of Education, NCERT, 1969 New Delhi Prakash S & Choudhury, S (1994). Expenditure on Education: Theory, Models and Growth, NIEPA Delhi, Pscharopoulos, G. & Woodhall, M (1985) Education for Development- An analysis of Investment choices, World Bank Publisher, London, Saavedra Jorge (2002). "Education Financing in Developing Countries: Level and Sources of Funds" World Bank Institute Core Course - Strategic Choices for Education Reform. Human Development Group. World Bank Institute... Sahni R and Kale S (2004). "GATS and Higher Education: Some Reflections" EPW. May 22. Schultz, T. W (1963) The Economic Value of Education, Columbia University Press, Columbia Sethi, Vinita (1977) Educational Development and Resource Mobilization, Kanishka Publication New Delhi Sharma L and Nagendra A (2016). Skill development in India: Challenges and Opportunities. Indian Journal of Science and technology. Vol. 9(48). Print. 0974-6846 Sodhi, T. S (1978) Education and Economics Development, Mukand Publications, Ludhiana, Tilak, J.B.G. (1987) Economics of Inequality in Education, Sage Publications, 1987. New Delhi. Vaizey John (1962) Economics of Education, London, Faber & Faber Home Human Development Reports. (n.d.). Retrieved December 4, 2025, from https://hdr.undp.org/ jschmied. (2016, September 16). Human Capital Development in Developing Countries. International Center for Global Leadership. http://www.icglconferences.com/articles/human-capital-development-in-developing-countries/ Happiest Countries in the World 2025. (2025, November 21). World Population Review. https://worldpopulationreview.com/country-rankings/happiest-countries-in-the-world
Teaching Methodology	Class work, Discussion, Seminars, Assignment, Viva Voce, Lecture, Smartboard, Group Discussion, Oral Presentation; Quiz, PPT, and Audio-Visual Medium.
Evaluation Method	Internal Assessment: 50 Marks External Assessment: 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROGRAM TITLE
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-1 CREDIT: 4
(Major ECO-4(D)) Econometrics -4

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) • PSO2: Ability to analyze the factors affecting the price and output determination (PO1) • PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) • PSO4: Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) • PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) • PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT SYLLABUS						
Program Name	Master of Arts (Economics)					
Semester	1 (First)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO-4(D)					
Course Level						
Course Title	Econometrics -4					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	Enable the learners to relate the relationship of economic theories, concepts, statistics and mathematics in a glorified manner for advanced research and development.					
Course Content	Unit 1: Theory of Probability – I Definition – Methods – Finite and Infinite Set – Equality of Sets – Null Sets – Subset – Universal Set Complement of a Set – Venn diagram – Set operations – Union of two sets – Intersection of Sets – Difference Sets – Examples Unit 2: Theory of Probability – II A priori definition – Theorem on total probability – Addition and Multiplication Theorems – Conditional Probability – Random variable – Mathematical Expectation – Applications Example Unit 3: Hypothesis and Distribution Meaning – Types of hypotheses – Critical region – Two types of error – Level of Significance – Test of Significance – Parametric test and Non parametric tests (theory) – Normal Distribution – t-distribution – F – distribution – Chi-square distribution Unit 4: Hypothesis Testing Examples of t-test, Chi-square test – Goodness of fit and test of independence, F-test, Z-test					
	એકમ 1: સંભાવનાનો સિદ્ધાંત-1 વ્યાખ્યા - ગણની પદ્ધતિઓ - શાન્ત અને અનંત ગણ - ગણોની સમાનતા - ખાલી ગણ - ઉપગણ- સાર્વત્રિક ગણ -પુરક ગણ -વેન આકૃતિ - ગણ પ્રક્રિયાઓ- યોગ ગણ -છેદ ગણ -તફાવત ગણ - ઉદાહરણો					

	એકમ 2: સંભાવનાનો સિદ્ધાંત - II સંભાવનાની પ્રાથમિક વ્યાખ્યા - કુલ સંભાવના પ્રમેય – સંભાવનાનો સરવાળોનો નિયમ અને સંભાવનાનો ગુણાકારનો નિયમ -શરતી સંભાવના- યાદચ્છ ચલ- ગાણિતિક અપેક્ષા -ઉદાહરણો એકમ 3: પરીકલ્પના અને વિતરણ અર્થ – પરીકલ્પનાના પ્રકારો – અસ્વીકાર પ્રદેશ – પરીકલ્પના પરિક્ષણની બે પ્રકારની ભૂલ – સાર્થકતાની કક્ષા-સાર્થકતાનું પરિક્ષણ- પરીકલ્પના પરિક્ષણની પ્રાચલિય પદ્ધતિઓ અને બિન પ્રાચલિય પદ્ધતિઓ - પ્રામાણ્ય - વિતરણ-ટી વિતરણ – એફ વિતરણ – કાય વર્ગ વિતરણ એકમ 4: પૂર્વધારણા પરીક્ષણ ઉદાહરણો-ટી પરિક્ષણ, – કાય વર્ગ પરિક્ષણ- ગુડનેસ ઓફ ફીટ અને સ્વતંત્રતાનું પરિક્ષણ, એફ- પરિક્ષણ-, ઝેડ પરિક્ષણ						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
Reference Books	1. A L Nagar and R K Das (1983): Basic Statistics, Oxford University Press, New Delhi, 2nd Ed. 2. Chandan J (1998): Statistics for Business and Economics, Vikas Publishing House, New Delhi. 3. Dave M.B, Pandya K, Gaurang Rami and Dilip Varsani (2014-15) Quantitative Methods of Economics, Popular, Surat. 4. G S Monga (2000): Mathematics and Statistics For Economics, Vikas Publishing House, New Delhi, 2nd Ed. 5. Jaiswal M.C.; (1974) Arthvishayak Ankadashastra, Uni. Granthnirman Board, Ahmadabad (Gujarati) 6. K K Sharma & Sukhpal Singh (2000): Introductory Economic Theory And Elementary Statistics, Abhishek Publications, Chandigarh. 7. Michael C Fleming & Joseph G Nellis (1997): The Essence Of Statistics For Business, Prentice Hall of India Pvt. Ltd., New Delhi, 2nd Ed. 8. Nagar A L (1997): Basic Statistics, Oxford University Press, New Delhi, 15th Ed. 9. Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmadabad. (Gujarati) 10. Patel D G, Pandya Kiran, Rami Gaurang and Varsani Dilip (2011), Ankadashastra (Statistics for Economics), Popular Prakashan, Surat. 11. Patel R.K. & L.B.; Business Statistics, C. Jamanadas Co. Ahmadabad. (Gujarati) 12. R H Hooda (2000): Statistics for Business and Economics, Macmillan India Pvt. Ltd., New Delhi. 13. Richard I Levin & David S Rubin (2000) Statistics for Management, Prentice Hall of India Ltd, 7th Ed. 14. Richard J. Larsen and Morris L. Marx, an Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2021.						

	15. Zala M.L.; (1996) Arthshastrama Gantishastra, Purbiti Prakashan, Vallabh Vidyanagar. (Gujarati) Jaiswal M.C.; (1974) Arthbishayak Ankadashastra, Uni. Granthnirman Board, Ahmadabad (Gujarati) 16. K K Sharma & Sukhpal Singh (2000): Introductory Economic Theory and Elementary Statistics, Abhishek Publications, Chandigarh. 17. Michael C Fleming & Joseph G Nellis (1997): The Essence Of Statistics For Business, Prentice Hall of India Pvt. Ltd., New Delhi, 2nd Ed. 18. Nagar A L (1997): Basic Statistics, Oxford University Press, New Delhi, 15th Ed. 19. Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmadabad. (Gujarati) 20. Patel R.K. & L.B.; Business Statistics, C. Jamanadas Co. Ahmadabad. (Gujarati) 21. R H Hooda (2000): Statistics for Business and Economics, Macmillan India Pvt. Ltd., New Delhi. 22. Richard I Levin & David S Rubin (2000) Statistics for Management, Prentice Hall of India Ltd, 7th Ed. 23. Richard J. Larsen and Morris L. Marx, an Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2021.
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks

Veer Narmad South Gujarat University Surat
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

M.A. Economics Sem. - 1

Major ECO- 5 (A)

Subject : Indian Political System - 5

અભ્યાસના ઉદ્દેશ્યો (Objectives of the Study)

1. વિદ્યાર્થીઓ રાજકીય વિજ્ઞાન અને રાજકીય અર્થતંત્ર વિશે પરિચય મેળવીને રાજકીય વિજ્ઞાન અને રાજકીય અર્થશાસ્ત્ર વચ્ચે ગહન સંબંધ જાણે.
2. વિદ્યાર્થીઓ રાજ્ય, સાર્વભૌમત્વ, સરકાર અને લોકશાહી જેવા શબ્દોનો ખ્યાલ ઊંડાણપૂર્વક મેળવે.
3. વિદ્યાર્થીઓ ભારતીય બંધારણની મુખ્ય લાક્ષણિકતાઓથી પરિચિત થશે.
4. વિદ્યાર્થીઓ સંસદ લોકસભા અને રાજ્યસભા વિશે માહિતીગાર થશે. સંસદના કાર્યોથી પરિચિત થશે.

એકમ - 1 રાજકીય વિજ્ઞાન અને રાજકીય અર્થતંત્રનો પરિચય

- રાજકીય વિજ્ઞાન: અર્થ અને વ્યાખ્યા અને મહત્વ
- રાજકીય અર્થતંત્ર: અર્થ અને વ્યાખ્યા અને મહત્વ
- રાજકીય વિજ્ઞાન અને અર્થશાસ્ત્ર વચ્ચેનો સંબંધ

એકમ - 2 રાજ્ય, સાર્વભૌમત્વ અને લોકશાહી

- રાજ્યની વ્યાખ્યાઓ
- રાજ્યના તત્વો
- રાજ્ય અને સરકાર વચ્ચે તફાવત
- સાર્વભૌમત્વ : અર્થ, વ્યાખ્યા અને લાક્ષણિકતાઓ
- લોકશાહી : અર્થ, વ્યાખ્યા અને લાક્ષણિકતાઓ
- લોકશાહીના : ગુણ અને ખામીઓ

એકમ - 3 ભારતીય બંધારણ

- ભારતીય બંધારણની મુખ્ય વિશેષતાઓ
- આમુખ (પ્રસ્તાવના)
- મૂળભૂત અધિકારો : આવશ્યકતા અને મહત્વ
- ભારતીય બંધારણમાં મૂળભૂત અધિકારો
- રાજ્ય નીતિના નિર્દેશક સિદ્ધાંત

એકમ - 4 સંસદ, લોકસભા અને રાજ્યસભા

- સંસદ
- લાયકાત અને ગેરલાયકાત
- સંસદના કાર્યો
- લોકસભા અને રાજ્યસભા: સામાન્ય ખ્યાલો

Subject Code [2601132101050001]

Veer Narmad South Gujarat University Surat

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

M.A. Economics Sem. - 1

Major ECO- 5 (A)

Subject : Indian Political System – 5

Unit - 1 Introduction of Political Science and Political economy

- Political Science : Meaning & Definition and importance
- Political Economy : Meaning & Definition and important
- Relation between Political Science and Economics

Unit - 2 State, Sovereignty and Democracy

- Definitions of State
- Elements of State
- Difference between state and government
- Sovereignty : Meaning, Definition and Characteristics
- Democracy : Meaning, Definition and Characteristics
- Merits and Demerits of Democracy

Unit - 3 Indian constitution

- Salient Features of Indian constitutions
- Preamble
- Fundamental Rights : Necessity and Importance
- Fundamental rights in Indian constitutions
- Directive Principle of State policy

Unit - 4 Parliament, Lok Sabha and Rajya Sabha

- Parliament
- Qualification and Disqualification
- Functions of Parliament
- Lok Sabha and Rajya Sabha : General Concepts

References :

1. Gauba, O. P. (2019) : **An Introduction to Political Theory**, Macmillan Education India Pvt. Ltd., New Delhi.
2. Laxmikanth, M. : **Indian Polity** Published by McGraw Hill Education (India) Pvt. Ltd. , New Delhi, 2023
3. Basu, D.D. : **Introduction to the Constitution of India**, LexisNexis, Gurugram (India), 2021
4. Fadia, B. L. & Fadia, Kuldeep : **Indian Government and Politics**, Sahitya Bhawan Publications, Agra, 2018
5. Sharma, S.R. : **Indian Parliament**, Atlantic Publishers and Distributors, New Delhi
6. Kothari, Rajni : **Politics in India**, Orient Blackswan Pvt. Ltd., New Dehli

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROGRAM TITLE
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-1 CREDIT: 4
(Major ECO- 5 (B)) Economics of Infrastructure -5

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) • PSO2: Ability to analyze the factors affecting the price and output determination (PO1) • PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) • PSO4: Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) • PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) • PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

Subject Code [2601132101050002]

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT SYLLABUS Master of Arts (Economics) Semester-1 CREDIT: 4 (Major ECO- 5 (B)) Economics of Infrastructure -5						
Program Name	Master of Arts (Economics)					
Semester	1 (First)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO- 5 (B)					
Course Level						
Course Title	Economics of Infrastructure -5					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	CO1: Understand the nature, components, and pricing of infrastructure and its role in economic development. CO2: Analyze transport systems and evaluate their role, issues, and policies, especially in the Indian context. CO3: Assess communication services in India and identify challenges with suitable policy measures.					
Course Content	Unit 1 : Nature and pricing of infrastructure • Components of infrastructure - Social and physical infrastructure. • Infrastructure as a public good. • Special characteristics of public utilities. • The peak load-off load problem. Role of infrastructure in economic development. • Pricing of infrastructure: marginal cost pricing and other methods of pricing. • Cross-subsidization - equity and efficiency arguments. Unit 2 : Transport • Components of a transport system - road, rail, air and water transport. Characteristics, advantages and disadvantages of each. • Relationship between transport services and economic development. • Role of public policy in transport: rationale of government intervention. Unit 3 : Transport in India • Indian road system: Types of roads.					

	• Growth of road network. • Importance of road network in India. • Problems of road sector in India. • Indian railways: Growth of railway network. • Evaluation of financial and operational performance of Indian Railways. • Water transport: Types, importance and problems of water transport in India. Air transport: Types, importance and problems of air transport in India. Transport policy in India; Nationalisation/Privatisation of transport sector Unit 4 : Commnications • Telephone utilities: Pricing in telephone utilities. • Spread of telephone network and current problems in India. • Measures to solve problems. • Postal services: Characteristics of postal services. • Criteria for fixation of postal rates. • Growth and problems of postal services in India. • Measurement of standards of service in telephone and postal utilities						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO-1						
	CO-2						
	CO-3						
Reference Books	1. Crew, M A and PR Kleindorfer (1979): Public Utility Economics, Macmillan, London. 2. Indian Council of Social Science Research (ICSSR) (1976): Economics of Infrastructure Vol. VI, New Delhi. 3. National Council of Applied Economic Research (NCAER) (1996): India Infrastructure 4. Report: Policy Implications for Growth and Welfare, NCAER, New Delhi. 5. Parikh KS (2010): India Development Report 2009, Oxford University Press, New Delhi. 6. Parikh K S (2012): India Infrastructure Report 2012, Oxford University Press, New Delhi. 7. Norton, H S (1971): Modern Transport Economics, CE Merrill, London. 8. Jha R, M N Murty and S Paul, (1990): On Fixing prices for Postal Services in India, NIPFP, New Delhi. 9. Misra and Puri (2013): Indian Economy Himalaya Publishing Co., Mumbai. 10. Ahuja, H. L. (2011): Advance Economic Theory, S. Chand and Co., New Delhi						
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods						
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: 50 Marks						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROGRAM TITLE
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-1 CREDIT: 4
(Major ECO-5(C)) Research Methodology Paper – 5

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) • PSO2: Ability to analyze the factors affecting the price and output determination (PO1) • PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) • PSO4: Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) • PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) • PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT SYLLABUS Master of Arts (Economics) Semester-1 CREDIT: 4 (Major ECO-5(C)) Research Methodology Paper – 5						
Program Name	Master of Arts (Economics)					
Semester	1 (First)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO-5(C)					
Course Level						
Course Title	Research Methodology - 5					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	The paper enables the students to understand CO-1 : The types of research and approaches. CO-2 : The paper makes the student know about the various types of research designs necessary for conducting research in inter-disciplinary areas					
Course Content	Unit 1 : Type of Research and Approaches Meaning of Research – Research in Social Sciences – Use of social science research – Criteria of good research – Type of Research: Deductive Vs Analytical, Applied Vs Fundamental, Quantitative Vs Qualitative, Conceptual Vs Empirical – Applied research, Exploratory research, Descriptive research, Action research, Evaluation research, Empirical research, Survey research, Field investigation research, Ex-post facto research, historical research, Case study- Steps in Research Process Unit 2 : Research Design and Review of Literature Essentials of research design – Need for research design – Classification of research design – Causation and experimental design – Exploratory study – Descriptive study – Errors in research design – Types of research errors: Researcher error, Interviewer error, Respondent error – Purpose and objectives of review of literature – Types of literature – Literature search procedure – Sources of literature – Importance of review of literature Unit 3 : Type of Data and Scale of Measurements Meaning of data – Types of Data: Cross section data, Time series data, Panel data – Primary data and Secondary data: Advantages and Disadvantages – Documentary sources of data – Selection of Measurement scale – Measurement scales: Ratio Scale, Nominal scale, Ordinal Scale, Interval Scale, Likert Scale – Rating Scale and Ranking scale – Criteria for good scale – Quantitative data and qualitative data – Sources of error in measurement – Sources secondary data in India. Unit 4 : Methods of Primary Data Collection Primary data collection – Observation method: Direct observation, indirect observation – Interview Method: Advantages and Disadvantages of interview method, Points to be considered while using the interview method, Long or In depth					

	interview method – Questionnaire method: Construction of questionnaire, sequence of questions, questions formulation and wording, Points to be considered while preparing questionnaire – Pre- test and pilot study - Focus group discussion: Conducting focus group discussion – Limitations of primary data – Case study method.
Course Content	એકમ 1 : સંશોધનના પ્રકારો અને અભિગમો સંશોધનનો અર્થ – સામાજિક વિજ્ઞાનમાં સંશોધન – સામાજિક વિજ્ઞાન સંશોધનનો ઉપયોગ – સારા સંશોધનના માપદંડો – સંશોધનના પ્રકારો: નિગમનલક્ષી વિરુદ્ધ વિશ્લેષણાત્મક, વ્યવહારિક વિરુદ્ધ મૂળભૂત, પરિમાણાત્મક વિરુદ્ધ ગુણાત્મક, વૈચારિક વિરુદ્ધ અનુભવજન્ય – વ્યવહારિક સંશોધન, અન્વેષણાત્મક સંશોધન, વર્ણનાત્મક સંશોધન, ક્રિયાત્મક સંશોધન, મૂલ્યાંકન સંશોધન, અનુભવજન્ય સંશોધન, સર્વેક્ષણ સંશોધન, ક્ષેત્ર તપાસ સંશોધન, કાર્યકારણ સંબંધોનું સંશોધન, ઐતિહાસિક સંશોધન, કેસ સ્ટડી- સંશોધન પ્રક્રિયાના તબક્કાઓ એકમ 2 : સંશોધન રૂપરેખા અને સાહિત્યની સમીક્ષા સંશોધન રૂપરેખા (Research Design) ના આવશ્યક તત્વો – સંશોધન રૂપરેખાની જરૂરિયાત – સંશોધન રૂપરેખાનું વર્ગીકરણ – કાર્યકારણ અને પ્રાયોગિક રૂપરેખા – અન્વેષણાત્મક અભ્યાસ – વર્ણનાત્મક અભ્યાસ – સંશોધન રૂપરેખામાં ભૂલો – સંશોધન ભૂલોના પ્રકારો: સંશોધકની ભૂલો, મુલાકાત લેનારની ભૂલ, પ્રતિભાવ આપનારની ભૂલ – સાહિત્યિક સમીક્ષાના હેતુઓ અને ઉદ્દેશ્યો – સાહિત્યના પ્રકારો – સાહિત્ય શોધવાની પ્રક્રિયા – સાહિત્યના સ્ત્રોતો – સાહિત્યિક સમીક્ષાનું મહત્વ એકમ 3 : માહિતીના પ્રકારો અને સ્કેલના માપો માહિતીનો અર્થ – માહિતીના પ્રકારો: આડછેદ માહિતી, સમય શ્રેણી માહિતી, પેનલ ડેટા – પ્રાથમિક માહિતી અને ગૌણ માહિતી: ફાયદા અને ગેરફાયદા – માહિતીના દસ્તાવેજો સ્ત્રોતો – સ્કેલ માપનની પસંદગી: ગુણોત્તર સ્કેલ, નામિક સ્કેલ, ક્રમિક સ્કેલ, અંતરાલ સ્કેલ, લિકર્ટ સ્કેલ – રેટિંગ સ્કેલ અને રેન્કિંગ સ્કેલ – સારા સ્કેલ (માપદંડ) માટેના માપદંડો – પરિમાણાત્મક માહિતી અને ગુણાત્મક માહિતી – માપનમાં ભૂલના સ્ત્રોતો – ભારતમાં ગૌણ માહિતીના સ્ત્રોતો. એકમ 4 : પ્રાથમિક માહિતી એકત્રીકરણની પદ્ધતિઓ પ્રાથમિક માહિતી એકત્રીકરણ – અવલોકન પદ્ધતિ: પ્રત્યક્ષ અવલોકન, પરોક્ષ અવલોકન – મુલાકાત પદ્ધતિ: ફાયદા અને ગેરફાયદા, મુલાકાત પદ્ધતિનો ઉપયોગ કરતી વખતે ધ્યાનમાં રાખવાના મુદ્દાઓ, લાંબી અથવા ગહન મુલાકાત પદ્ધતિ – પ્રશ્નાવલી પદ્ધતિ: પ્રશ્નાવલીની રચના, પ્રશ્નોનો ક્રમ, પ્રશ્નોની બનાવટ અને શબ્દોની પસંદગી, પ્રશ્નાવલી તૈયાર કરતી વખતે ધ્યાનમાં રાખવાના મુદ્દાઓ – પૂર્વ-પરીક્ષણ અને અજમાયશી અભ્યાસ- જૂથ ચર્ચા: સંચાલન કરવાની રીત – પ્રાથમિક માહિતીની મર્યાદાઓ – કેસ સ્ટડી પદ્ધતિ.

Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
Reference Books	1. Ahuja Ram (2001), Research Methods; Rawat Publications, Jaipur. 2. Beri G.C. (2004), Marketing Research (3rd Ed.); Tata McGraw-Hill Publishing Company Ltd, New Delhi. 3. Bryman Alan (2012), Social Research Methods (4th Ed), Oxford University, Press, New York 4. Bryman Alan; Bell Emma (2007), Business Research Methods (2nd Ed.); Oxford University Press, New York. 5. Cauvery R & Sudha Nayak U.K. (2005), Research Methodology; S.chand & Company Ltd., New Delhi. 6. Gopal K. Kanji (2006), 100 Statistical Tests, SAGE Publications India Private Limited, New Delhi 7. Kothari C.R. (2004), Research Methodology: Methods & Techniques (2nd Ed.); New Age International Pvt. Ltd, New Delhi. 8. દેસાઈ હરીભાઈ જી. અને દેસાઈ કૃષ્ણકાંત જી. સંશોધન પદ્ધતિઓ અને પ્રવિધિઓ (૧૯૯૭), ગુજરાત ગ્રંથ નિર્માણ બોર્ડ.						
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods						
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks						

VEER NARAMAD SOUTH GUJARAT UNIVERSITY, SURAT
Programme Name:- MASTER OF ARTS- ECONOMICS SEMESTER : 2

As Per NEP-2020

Teaching & Evaluation Scheme: - As per NEP-2020

SEMESTER : 2																
Course Category	Course Code	Course Title	Mark sheet Title in English	Level of Course	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR - 6	MAJOR ECO - 6	Micro Economics-6	Micro Economics - 6	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR - 7	MAJOR ECO - 7	Macro Economics - 7	Macro Economics - 7	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR - 8	MAJOR ECO - 8	Quantitative Methods for Economics - 8	Quantitative Methods for Economics - 8	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR - 9 (A)	MAJOR ECO - 9 (A)	Industrial Economics -9	Industrial Economics - 9	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR - 9 (B)	MAJOR ECO - 9 (B)	Agriculture Economics - 9	Agriculture Economics - 9	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR - 9 (B)	MAJOR ECO - 9 (B)	Economics of Human Resource - 9	Economics of Human Resource - 9	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR - 9 (D)	MAJOR ECO - 9 (D)	Econometrics - 9	Econometrics - 9	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
MAJOR - 10 (A)	MAJOR ECO - 10 (A)	Indian Political System-10	Indian Political System - 10	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR - 10 (B)	MAJOR ECO - 10 (B)	Economics of Infrastructure - 10	Economics of Infrastructure - 10	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
OR																
MAJOR - 10 (C)	MAJOR ECO - 10 (C)	Research Methodology-10	Research Methodology - 10	400	4 hr/week	0	2h	0	4	0	50	0	50	0	100	0
SEC	SEC	Term Paper	Term Paper	200	2hr/week	0	0	0	2	0	25	0	25	0	50	0

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Major ECO-6 Micro Economics - 6

Master of Arts (Economics) Semester-2 CREDIT-4

Program Name	Master of Arts (Economics)						
Semester	2						
NCrF Credit Level	6						
Course Type	Major						
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)						
Subject Type	Discipline Specific						
Course Code	Major ECO-6						
Course Level							
Course Title	Micro Economics - 6						
Credit	Theory:	4	Practical:	0	Total:	4	
Effective Form	Academic Year: 2026-27						
Course Outcomes	CO1 – Explain price and output determination under various market structures like oligopoly and bilateral monopoly. CO2 – Apply game theory concepts to analyse strategic behaviour among economic agents. CO3 – Compare major macro theories of distribution by Ricardian, Marxian, Kalecki, and Kaldor. CO4 – Interpret functional and personal income distribution and product exhaustion theorem. CO5 – Understand the foundations and principles of welfare economics including Pigovian and Pareto criteria. CO6 – Understand general equilibrium and welfare theorems.						
Course Content	Unit - 1 : Price and output determination - Oligopoly: Non Collusive (Cournot, Edge Worth, Chamberlin, Stackelberg models) Price determination under Oligopoly (Cartels Model) - Price Leadership Models - Price and Output Determination Under Bilateral Monopoly Unit – 2 : Game Theory - Meaning of Game, Payoff Matrix, Zero Sum Game and Constant Sum Game, Mini Max and Maxi Min Principles, Nash equilibrium - The prisoner’s Dilemma, Mixed strategies, Repeated games, Sequential games Unit – 3 : Theories of distribution - Macro Theories of Distribution of Ricardian, Marxian, Kalecki and Kaldor’s - Product exhaustion and Euler’s theorem - Functional distribution and personal distribution Unit – 4 Walrasian General Equilibrium - General equilibrium – Excess demand function and its properties, tatonnement process and the proof of general equilibrium (using Brouwer fixed point theorem) - Core and equilibria, the first and the second fundamental theorem of welfare economics.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
	CO5						
	CO6						

Program Name	Master of Arts (Economics)
Semester	2
Course Title	Micro Economics -6
Course Content	એકમ - 1 : કિંમત અને ઉત્પાદન નિર્ધારણ - અલ્પ-હસ્તક ઈજારો: બિન-જોડાણના મોડેલો — ફૂર્નોટ, એજવર્થ, ચેમ્બરલિન અને સ્ટેકલબર્ગ મોડેલો હેઠળ ભાવ નિર્ધારણ. - અલ્પ-હસ્તક ઈજારામાં જૂથ મોડેલમાં ભાવ નિર્ધારણ. - કિંમત નેતૃત્વ મોડેલો - દ્વિ-હસ્તક ઈજારા હેઠળ કિંમત અને ઉત્પાદન નિર્ધારણ. એકમ - 2 : રમત સિદ્ધાંત - રમતનો અર્થ, પે ઓફ મેટ્રિક્સ, શૂન્ય સમ રમત અને સ્થિર સમ રમતો, ન્યૂનતમ અને મહત્તમના સિદ્ધાંતો, નેશ સમતુલા - કેદીની દુવિધા, મિશ્ર વ્યૂહરચનાઓ, રમતમાં પરિવર્તન (આવર્તિત રમતો), કમબક્ક રમતો એકમ - 3 : વહેંચણીના સિદ્ધાંતો - સમગ્રલક્ષી વહેંચણીના સિદ્ધાંતો: રિકાર્ડો, માર્ક્સ, કાલેકી અને કાલ્ડોરના સિદ્ધાંતો - ઉત્પાદનના પૂર્ણ વહેંચણી સિદ્ધાંત અને યુલરનું પ્રમેય - કાર્યાત્મક વહેંચણી અને વ્યક્તિગત વહેંચણી એકમ - 4 : વોલરાસની સામાન્ય સમતુલા - સામાન્ય સમતુલા – અધિક માંગ વિધેય અને તેના લક્ષણો, ટેટોનમેન્ટ પ્રક્રિયા અને સામાન્ય સંતુલનનો પુરાવો (બ્રોવર ફિક્સ્ડ પોઈન્ટ સિદ્ધાંતના આધારે) - કોર અને સામાન્ય સંતુલન, કલ્યાણ અર્થશાસ્ત્રના પ્રથમ અને દ્વિતીય મૂળભૂત સિદ્ધાંતો
Reference Books	- Ahuja H.L., Advanced economic theory-Microeconomic Analysis, S.Chand &co. Delhi. - Archibald, G.C. (Ed.) (1971), Theory of the Firm, Penguin, Harmondsworth. - Bain, J. (1958), Barriers to New Competition, Harvard University Press, Harvard. - Baumol, W.J. (1982), Economic Theory and Operations analysis, Prentice Hall of India, New Delhi - Borch, K.H. (1968), the Economics of Uncertainty, Princeton University Press, Princeton. - Brian Hillier, (1997) The Economics of Asymmetric Information (Conference Papers). Palgrave Macmillan-3PL - Broadway, R.W. and N.Bruce (1984) Welfare Economics, Basil Blackwell, London. - Bronfenbrenner, M. (1979), Income Distribution Theory, MacMillan, London - Da Costa, G.C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi. - Deweet K.K., Modern economic theory, S.Chand and Company, New Delhi. - Diamond and Rothschild (Eds.) (1970), Uncertainty in Economics, Academic Press, New York. - Graff, J.De.V. (1957), Theoretical Nelfare Economics, Cambridge University Press, Cambridge.

	13. Henderson, J.M and R.E.Quandt (1980), Micro Economic Theory: A Mathematical Approach, McGraw Hill, New Delhi. 14. Hirshleifer, J and A Glazer. (1997), Price Theory and Applications, Prentice Hall of India, New Delhi 15. Inés Macho-Stadler and J. David Pérez-Castrillo. An Introduction to the Economics of Information: Incentives and Contracts 2nd Edition. Oxford University Press; 2 edition (May 17, 2001) 16. Koutsoyianis, A.(1979),Modern Microeconomics,(2nd Edition),Macmillan Press, London 17. Kreps, David M.(1990),A Course in Microeconomics Theory, Princeton University Press, Princeton. 18. Layard, P. R. G and A. W. Walters (1978), Microeconomic Theory, MacGraw Hill, New York. 19. Lipsey and Chrystal, Economics, Oxford University Press, New Delhi. 20. Mishan, E.J. (1969), Welfare Economics, an Assessment, North Holland, Amsterdam. 21. Prasad K.N., Lectures on micro-economic theory, Himalaya publishing house. 22. R C Joshi, Gaurang D Rami and Yogesh N Vansiya, (2016), Micro Economics, Popular Prakashan, Surat. 23. Robert S Pindyck and Daniel L Rubinfeld (2008). Microeconomics, Prentice Hall of India Private Ltd. New Delhi. 24. Samuelson, Economics, Tata Mcgraw Hill, New Delhi. 25. Sen Anindya., Microeconomics-Theory and applications, Oxford Uni. press, Delhi. 26. Seth M.L., Principles of Economics (Micro and Macroeconomics) Lakshmi Narain Agrawas. Agra. 27. Stigler, (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi. 28. Stonier A and Hague D., A Textbook of Economic theory, Longman group, London. 29. Sundharam K.P.M. and Sundharam E.N., Economic Analysis, S. Chand and sons,Delhi 30. Ulrich Schwalbe. The Core of Economies with Asymmetric Information (Lecture Notes in Economics and Mathematical Systems). Springer; 1999 edition. 31. Varian. H.R (2006), Intermediate Microeconomics. A Modern Approach, W.W.Norton, (EWP) 32. Weinturb,E.R.(1974),General Equilibrium Theory, Macmillan, London. 33. એચ.કે.ત્રિવેદી, અર્થશાસ્ત્રના સિદ્ધાંતો, યુનીવર્સિટી ગ્રંથનિર્માણ બોર્ડ, અમદાવાદ.
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROGRAM TITLE
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-2 CREDIT: 4
(Major ECO-7) Macro Economics -7

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) • PSO2: Ability to analyze the factors affecting the price and output determination (PO1) • PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) • PSO4: Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) • PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) • PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27 Master of Arts (Economics) Semester-2 CREDIT: 4 (Major ECO-7) Macro Economics -7						
Program Name	Master of Arts (Economics)					
Semester	2 (Second)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO-7					
Course Level						
Course Title	Macro Economics -7					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	CO-1 : Production, consumption, investment along business cycles. CO-2 : Understanding the cyclical trends CO-3 : Deeper understanding of interrelationship between macro-economic parameters					
Course Content	Unit 1 : Consumption function, Investment function - Keynes law of consumption function, factors affecting consumption Function, measures to increase consumption spending. - Relative income, Absolute income, Life cycle, Permanent income Hypothesis - Investment function – meaning, types, motivations for investment. - Marginal efficiency of capital and rate of interest, factors affecting Marginal efficiency of capital. Unit 2 : Business cycle - Meaning, phases, control of business cycle. - Hayek, Hicks, Cob-Web theory of business cycle. - The real business cycle theory Unit 3 : AD-AS and IS-LM model - General equilibrium model – IS–LM, Extension of IS-LM - Classical and Keynesian views on income determination – AD/AS model - AD/AS model and relative effectiveness of monetary and fiscal policies. Unit 4 : Modern Macro Economics - Adaptive and rational expectation theory - Supply side economics - Monetarism vs. Keynesianism. - New Keynesianism economics.					

Course Content	એકમ – 1: ઉપભોગ અને રોકાણ કાર્ય - કેઈન્સનું ઉપભોગ સિદ્ધાંત - ઉપભોગને અસર કરનારા પરિબલો - રોકાણનું અર્થ અને પ્રકારો - મૂડીની સીમાંત કાર્યક્ષમતા એકમ – 2: વ્યાપાર ચક્ર - અર્થ અને તબક્કાઓ - હાયેક, હિક્સ અને કોબ-વેબ સિદ્ધાંત - વાસ્તવિક વ્યાપાર ચક્ર સિદ્ધાંત એકમ – 3: AD-AS અને IS-LM મોડેલ - સામાન્ય સમતુલા મોડેલ - ક્લાસિકલ અને કેઈન્સીયન અભિગમ - નાણાકીય અને રાજકોષીય નીતિ એકમ – 4: આધુનિક મેક્રો અર્થશાસ્ત્ર - અનુરૂપ અને તર્કસંગત અપેક્ષા સિદ્ધાંત - પુરવઠા આધારિત અર્થશાસ્ત્ર - મોનેટારિઝમ અને કેઈન્સીયન વિચારધારા						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO-1						
	CO-2						
	CO-3						
Reference Books	1. Acharya Shankar: (2008) Essays on macroeconomic policy and growth in India. Oxford University Press. 2. Agrawal V. (2010) Macro Economics: Theory and Policy, Dorling Kindersley (India) Pvt. Ltd. 3. Chick, V. (1977), The Theory of Monetary Policy, 2nd Ed. Basil Blackwell 4. Culbertson, J.M. (1971), Macroeconomic Theory and Stabilization Policy, McGraw-Hill, London. 5. Kumar Ranjit (2008), Research Methodology- A Step by Step Guide for Beginners, Person Education, New Delhi. 6. Murthy C (2013), Research Methodology, Vrinda Publications (P) LTD., Delhi 7. Narayanasamy N (2009), Participatory Rural Appraisal: Principles, Methods and Application, SAGE Publications India Pvt. Ltd, New Delhi 8. Panneerselvam R. (2010), Research Methodology (8th Ed.); Prentice-Hall of India Pvt. Ltd, New Delhi. 9. Popper, K.R. (1959), The Logic of Scientific Discovery, New York, NY: Basic Books. 10. Popper, K.R. (1972), Objective Knowledge, Oxford, U.K: Clarendon. 11. Sekaran Uma (2006), Research Methods for Business; Wiley India Pvt. Ltd, New Delhi. 12. Shajahan.S. (2006), Research Methods for Management, 3rd Ed.; Jaico Publishing House, Mumbai.						

	13. Sharma K.R (2002), Research Methodology; National Publishing House, Jaipur. 14. Tripathi P.C. (2003), A Textbook of Research Methodology in social sciences (4 th Ed.); Sultan Chand & Sons, New Delhi. 15. Uwe Flick (2017), Introducing Research Methodology (2 nd Ed.); Sage Publications India Private Ltd., New Delhi. 16. William M.K. (2003), Research Methodology (2 nd Ed.); Biztantra, New Delhi. 17. Zikmund William G. (2004), Business Research Methods (7 th Ed.); Thomson Asia Pvt. Ltd, Singapore. 18. Froyen, Richard (1998), Macroeconomics, Prentice Hall, International Editions. 19. Gupta G S: (2008) Macro Economics – Theory and Application, Tata McGraw Hill Publication Company Limited, New Delhi. 20. Gupta G S: (2008) Macro Economics: Theory and Application, Tata McGraw Hill Publication Company Limited, New Delhi. 21. Gupta S B: (2005) Monetary Economics, Vikas Publishing House. 22. Hajela T N: (2009) Macro Economic Theory. McGraw Hill, Ane book Pvt. Ltd., New Delhi. 23. Harris Laurence: (1985) Monetary Theory. McGraw Hill, International Edition. 24. Jhingan M L (2010) 12 th edition, Macro Economic Theory, Vindra Publication, Delhi. 25. K.C. Rana, K.N. Verma (2017) Macro Economic Analysis, Vishal Pub. Co., Delhi. 26. Mithani D M: (2005) Money, Banking International Trade, Public Finance, Himalaya Publishing House, New Delhi. 27. Money and Banking (2005) – The ICFAI University, Hyderabad. 28. Mukharjee Sampat: (1995) Modern Economic Theory. Wishwa Prakashan, New Delhi. 29. Samuelson Paul: (1997): Economics, Tata McGraw Hill, 17 th Edition.
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT PROGRAM TITLE SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27 Master of Arts (Economics) Semester-2 CREDIT: 4 (Major ECO-8) Quantitative Methods for Economics Paper - 8		
Name of Program	MASTER OF ARTS (ECONOMICS)	
Program Abbreviation	M.A.	
Duration	Four semesters (2 Semesters/year)	
Eligibility Criteria	B.A. Degree with Economics/B.Com	
Pre-requisite	None	
Medium of Instruction	Gujarati & English	
Objective of Program	Complete Program Objectives (Standard for M.A. Economics under NEP-2020)	
	1	To provide students with a strong foundation in the fundamental principles of microeconomics and macroeconomics.
	2	To develop analytical and critical thinking skills for understanding economic problems and policies.
	3	To enable students to understand consumer behaviour, producer behaviour, and market structures.
	4	To equip students with quantitative and graphical tools for economic analysis.
	5	To prepare students for careers in banking, finance, teaching, research, and civil services.
	6	To build a base for lifelong learning and advanced studies in economics.
	7	To develop awareness of Indian economic issues and policies.
Program Outcome (PO)	PO1: Disciplinary Knowledge: Demonstrate comprehensive knowledge of economic theories, concepts, and models. PO2: Analytical Skills: Analyze economic problems using qualitative and quantitative methods.	

	PO3: Policy Understanding: Understand and critically evaluate government economic policies. PO4: Research Aptitude: Collect, process, and interpret economic data for research purposes. PO5: Communication Skills: Articulate economic arguments effectively in written and oral form. PO6: Ethical & Social Awareness: Apply economic reasoning to social justice and sustainability issues. PO7: Life-Long Learning: Develop ability to understand dynamic economic changes in the real world.																			
Program Specific Outcomes (PSO)	PSO1: Understand foundational theories of micro and macroeconomics. PSO2: Analyze demand, supply, and market equilibrium in different market structures. PSO3: Apply consumer behavior theories to understand purchasing decisions. PSO4: Evaluate production, cost, and revenue functions for business decision-making. PSO5: Use statistical and graphical tools for economic analysis. PSO6: Relate economic theories to real-world Indian economic issues.																			
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6													
	PO1	3	3	3	3	2	3													
	PO2	2	3	2	2	3	3													
	PO3	2	3	1	1	2	3													
	PO4	1	2	1	1	3	2													
	PO5	1	1	1	1	2	2													
	PO6	2	2	2	1	1	3													
	PO7	3	3	2	2	2	3													
Mapping Scale is a standardized scale used to show how strong the relationship is between a specific Course Outcome (CO) and a specific Program Specific Outcome (PSO). <table><tr><td>Scale Value</td><td>Meaning</td><td>Explanation</td></tr><tr><td>3</td><td>High Mapping</td><td>The CO is highly effective in achieving the PSO. Almost the entire unit is related to this PSO.</td></tr><tr><td>2</td><td>Medium Mapping</td><td>The CO is moderately effective in achieving the PSO. Some parts are related, some are not.</td></tr><tr><td>1</td><td>Low Mapping</td><td>The CO is less effective in achieving the PSO. A very small portion is related.</td></tr></table>									Scale Value	Meaning	Explanation	3	High Mapping	The CO is highly effective in achieving the PSO. Almost the entire unit is related to this PSO.	2	Medium Mapping	The CO is moderately effective in achieving the PSO. Some parts are related, some are not.	1	Low Mapping	The CO is less effective in achieving the PSO. A very small portion is related.
Scale Value	Meaning	Explanation																		
3	High Mapping	The CO is highly effective in achieving the PSO. Almost the entire unit is related to this PSO.																		
2	Medium Mapping	The CO is moderately effective in achieving the PSO. Some parts are related, some are not.																		
1	Low Mapping	The CO is less effective in achieving the PSO. A very small portion is related.																		

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Program Name	Master of Arts (M.A.)				
Semester	2				
NCrF Credit Level	6				
Course Type	Major				
Course Subtype	Core Discipline Subject				
Subject Type	Discipline Specific				
Course Code	Major ECO-8				
Course Level					
Course Title	Quantitative Methods for Economics - 8				
Credit	Theory:04		Practical: --		Total:04
Effective From	Academic Year: 2026-27				
Course Outcomes	CO1	Apply concepts of limits, differentiation, and integration in solving economic problems.			
	CO2	Use matrices and determinants to solve systems of linear equations.			
	CO3	Compute and interpret measures of central tendency and dispersion.			
	CO4	Measure and interpret correlation and apply simple linear regression for economic analysis.			

Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	2	3	2	2	1	2
	CO2	2	3	1	3	2	1
	CO3	1	2	1	1	3	2
	CO4	2	2	2	2	3	3

Course Content

Unit-1: Limit and Continuity of a Function and Differentiation (Weightage: 25%)

Introduction of Limits Concept of infinity, Laws of Limits, Continuity of a Function. Differentiation, Maxima and Minima, Elasticity, Relationship among AR, MR and Elasticity of Demand.

Unit-2: Integration and Matrices and Determinants (Weightage: 25%)

Concept Integration, Indefinite Integration and Definite Integration, Rules of Integration, Its Application in Economics, Consumer and Producer surplus. Matrix -Meaning and types, Matrix operations, Addition, Subtraction and Multiplication-Properties of Matrix multiplication, Transpose of matrix. Determinant and their properties (Up to 3×3) – Minor and Cofactors – Rank of a Matrix- Solving linear equations using Matrix Inverse- Cramer's rule.

Unit-3: Measurement of Central Tendency and Measurement of Dispersion (Weightage: 25%)

Mean, Weighted Mean, Mixed Mean, Harmonic Mean, Geometric Mean, Median, Quartiles, Deciles, Percentiles, Mode, Absolute Range and Relative Range, Absolute Quartile Deviation and Relative Quartile Deviation. Absolute Mean Deviation and Relative Range Relative Mean Deviation, Absolute Standard Deviation and Relative Standard Deviation. Co-efficient of Variation.

Unit-4: Correlation and Simple Linear Regression (Weightage: 25%)

Correlation and Simple Linear Regression

Meaning of Correlation, Types of Correlation, Graphical Methods to Measurement of Correlation (Method of Scatter Plot, Graphical Method) Mathematical Methods to Measurement of Correlation (Pearson Correlation Coefficient, Spearman Rank Correlation) Introduction of Linear Regression, Assumption of Linear Regression, Properties of Linear Regression, Regression Coefficient, R-squared,

એકમ - ૧. વિધેયનું લક્ષ્ય અને સાતત્ય તથા વિકલન (Weightage: 25%)

લક્ષ્યનો પરિચય અને અંત નો ખ્યાલ, લક્ષ્યના નિયમો, વિધેયનું સાતત્ય, વિકલન, મહત્તમીકરણ અને ન્યુનતમીકરણ, મુલ્યસાપેક્ષતા, સરેરાશ આવક, સીમાંત આવક અને માંગની મુલ્યસાપેક્ષતા વચ્ચેનો સંબંધ.

એકમ - ૨. સંકલન અને શ્રેણિક તથા નિશ્ચાયક (Weightage: 25%)

સંકલનનો ખ્યાલ, અનિશ્ચિત સંકલન અને નિશ્ચિત સંકલન. સંકલનના નિયમો, સંકલનનો અર્થશાસ્ત્રમાં ઉપયોગ, ગ્રાહકનો અને ઉત્પાદકનો અધિકસંતોષ, શ્રેણિકનો અર્થ અને પ્રકાર, શ્રેણિક સરવાળા, બાદબાકી અને ગુણાકાર, શ્રેણિકના ગુણાકારના ગુણધર્મો, પરિ શ્રેણિક, નિશ્ચાયક અને તેના ગુણધર્મો (3×3 સુધી) – સહઅવયવ અને સહ-અવયવજ, શ્રેણિકનો ક્રમ- વ્યસ્ત શ્રેણિકનો ઉપયોગ કરી સુરેખ સમીકરણનો ઉકેલ. કેમાંરનો નિયમ

એકમ - ૩ કેન્દ્રીય વલણના માપદંડ અને પ્રસરમાનના માપદંડ**(Weightage: 25%)**

મધ્યક, ભારિત મધ્યક, મિશ્ર મધ્યક, સમાંતર મધ્યક, ભૌમિતિક મધ્યક, મધ્યસ્થ, ચતુર્થકો, દશાંસકો, પ્રતિશત, બહુલક, નિરપેક્ષ વિસ્તાર અને સાપેક્ષ વિસ્તાર, નિરપેક્ષ ચતુર્થક વિચલન અને સાપેક્ષ ચતુર્થક વિચલન, નિરપેક્ષ સરેરાશ વિચલન અને સાપેક્ષ સરેરાશ વિચલન, નિરપેક્ષ પ્રમાણિત વિચલન અને સાપેક્ષ પ્રમાણિત વિચલન, ચલનાંક.

એકમ - ૪. સહસંબંધ અને નિયત સંબંધ.**(Weightage: 25%)**

સહસંબંધનો અર્થ, સહસંબંધના પ્રકાર, સહસંબંધ માપવાની ભૌમિતિક પદ્ધતિ (વિકીર્ણ આકૃતિની રીત, આલેખની રીત) સહસંબંધ માપવાની ગાણિતિક પદ્ધતિ (કાર્લ પિયર્સન ની ગુણતપ્રધાતની રીત, સ્પીયરમેનની ક્રમાંક સહસંબંધની રીત) સુરેખ નિયતસંબંધ, સુરેખ નિયતસંબંધની ધારણાઓ, સુરેખ નિયતસંબંધના ગુણધર્મો, નિયતસબધાંક, R^2

Reference**Books****References: (for Statistics)**

1. A L Nagar and R K Das (1983): Basic Statistics, Oxford University Press, New Delhi, 2nd Ed.
2. Chandan J (1998): Statistics for Business and Economics, Vikas Publishing House, New Delhi
3. Dave M.B, Pandya K, Gaurang rami and Dilip Varsani (2014-15) Quantitative Methods of Economics, Popular, Surat (Gujarati)
4. G S Monga (2000): Mathematics and Statistics for Economics, Vikas Publishing House, New Delhi, 2nd Ed.
5. G V Shenoy & Late. Madan Pant (1994) Statistical Methods In Business And Social Sciences, Macmillan India Pvt. Ltd, New Delhi
6. Jaiswal M.C.; (1974) Arthvishayak Ankadashastra, Uni. Granthnirman Board, Ahmadabad (Gujarati)
7. K K Sharma & Sukhpal Singh (2000): Introductory Economic Theory And Elementary Statistics, Abhishek Publications, Chandigarh
8. Michael C FLEMING & Joseph G Nellis (1997): The Essence Of Statistics For Business, Prentice Hall of India Pvt. Ltd., New Delhi, 2nd Ed.
9. Nagar A L (1997): Basic Statistics, Oxford University Press, New Delhi, 15th Ed.
10. Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmadabad. (Gujarati)
11. Patel R.K. & Patel L.B.; Business Statistics, C. Jamanadas Co. Ahmadabad. (Gujarati)
12. R H Hooda (2000): Statistics For Business and Economics, Macmillan India Pvt. Ltd., New Delhi
13. Richard I Levin & David S Rubin (2000) Statistic for Management, Prentice Hall of India Ltd, 7th Ed.
14. Richard J. Larsen and Morris L. Marx, an Introduction to Mathematical Statistic and its Applications, Prentice Hall, 2011.
15. Zala M.L.; (1996) Arthshastrama Ganitshastra, Purbiti Prakashan, Vallabh Vidyanagar. (Gujarati)

References: (for Mathematics)

1. A S Ramsastri (2000): Quantitative Methods for Valuation of Financial Assets, Response Books, New Delhi.
2. Anthony & Biggs (2000): Mathematics For Economics and Finance, Cambridge Uni. Press

	3. Berry Tanuj (1994): Mathematical Method For Economics, Archetypal Publications, New Delhi 4. Edward T Dowling (1992): Theory and Problems of Introduction Mathematical Economics, Schaum's Outline Series McGraw-Hill, New York. 5. Edward T Dowling (2001): Mathematical Methods for Business and Economics, Schaum, s Outline Series McGraw-Hill, New York. 6. F M Wilkes (1999): Mathematics for Business Finance and Economics, International Thomson Business Press, London; 2nd Ed. 7. G S Monga (2000): Mathematics and Statistics for Economics, Vikash Publications, New Delhi 2nd Ed. 8. H A Spooner & D A L Wilson (1997): The Essence of Mathematics For Business, Prentice Hall of India Pvt Ltd, New Delhi 9. Hooda R PN (1994): Statistics for Business and Economics, Macmillan., New Delhi 10. Martin Anthony and Norman Biggs (2000): Mathematics For Economics And Finance Methods and Modeling, Cambridge University Press, New York, 3rd ED. 11. R G D Allan (2000): Mathematical Analysis for Economics, Macmillan, Delhi, 7th ED. 12. R G S Bharadwaj (2000): Mathematics For Economics and Business, Excel Books, New Delhi 13. Siegel S (1956) No parametric Statistics, Tata McGraw-Hill, New York.
Teaching Methodology	• Lectures (Chalk & Talk / PPT) • Case studies, Field Survey Demonstration, • Practical Demonstrations, Hands-on Training using Excel/SPSS, Data Analysis Exercises, Classroom Workshops, Diagram and Graph Construction Activities.
Evaluation Method	Internal Assessment: ____50____ Marks External Assessment: ____ 50____ Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT							
SYLLABUS							
Master of Arts (Economics) – Major ECO-9(A) - Industrial Economics- 9							
Program Name	Master of Arts (Economics)						
Semester	Semester-2						
NCrF Credit Level	6						
Course Type	Major						
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)						
Subject Type	Discipline Specific / Intra-disciplinary / Emerging Technology / Vocational Education etc. (Specify the relevant Subject Type)						
Course Code	Major ECO- 9(A)						
Course Level							
Course Title	Industrial Economics-9						
Credit	Theory:	4	Practical:	-	Total:	4	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 – Industrial development in India, the relationship between industry and economic development and the impact of the New Industrial Policy-1991 and LPG. CO2 – Industrial finance system, major financial institutions, FDI-FPI, money market and capital market and the role of SEBI etc. will be known. CO3 – Students will be able to analyse the importance, challenges and government schemes of various industries. CO4 – Students will be able to develop practical understanding by evaluating MSME, SEZ, industrial corridors and new directions and challenges of industries.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Course Content	Unit - 1 : Industrial Development and Industrial Policy in India 25% - Industry and Economic Development: Meaning and Relationship between Both - New Industrial Policy 1991: Meaning, Objectives, Features and Role in Economic Development - LPG (Globalization, Privatization, Liberalization): Meaning, Objectives - Development of Public and Private Sector: Meaning, Objectives, Importance - Globalization and its Impact and Challenges on Industrial Development in India Unit – 2 Industrial Finance System 25% - Major Industrial Finance Institutions: IFCI, IDBI, SIDBI, ICICI - Scope and Role of Each						

	- Foreign Direct Investment (FDI) and Foreign Portfolio Investment (FPI) - Money Market and Capital Market: Meaning, Functions, Importance, Difference between Both - SEBI (Securities and Exchange Board of India) : Objectives and Functions Unit – 3 : Selected Industries 25% - Agro-based Industries: Textile Industry, Food Processing, dairy Industry - Heavy Industries: Iron-Steel Industry, Electric Industry, Petroleum Industry, - Technology based Industry : Information Technology Industry, electronics and Semiconductor - Green or Eco-friendly : solar Industry and Wind Industry (Meaning, Importance, Challenges, Government Schemes of Every Industry) Unit – 4 MSME, SEZ and New Directions of Industries 25% - Micro, Small and Medium Enterprises (MSME) : Definition , Importance, Benefits, Challenges - Make in India and Government Schemes - Special Economic Zones (SEZ): Meaning, Purposes, Advantages-Disadvantages - Industrial Corridors: Meaning, Purposes, Importance, Names of Major Corridors in India - New Direction of Industries and Challenges
	યુનિટ -1 ભારતમાં ઔદ્યોગિક વિકાસ અને ઔદ્યોગિક નીતિ 25% - ઉદ્યોગ અને આર્થિક વિકાસ : અર્થ અને બંને વચ્ચેનો સંબંધ - નવી ઔદ્યોગિક નીતિ 1991: અર્થ, ઉદ્દેશો, લક્ષણો અને આર્થિક વિકાસમાં ભૂમિકા - LPG(વૈશ્વિકરણ, ખાનગીકરણ, ઉદારીકરણ) : અર્થ અને ઉદ્દેશો - જાહેર અને ખાનગી ક્ષેત્રનો વિકાસ: અર્થ, ઉદ્દેશો, મહત્વ - વૈશ્વિકીકરણ અને તેની ભારતમાં ઔદ્યોગિક વિકાસ પર અસર અને પડકારો યુનિટ -2 ઔદ્યોગિક નાણાકીય વ્યવસ્થા 25% - મુખ્ય ઔદ્યોગિક નાણાકીય સંસ્થાઓ : IFCI, IDBI, SIDBI, ICICI - દરેકનું કાર્યક્ષેત્ર અને ભૂમિકા - વિદેશી સીધુ મૂડીરોકાણ (FDI) અને વિદેશી પોર્ટફોલિયો મૂડીરોકાણ (FPI) - નાણા બજાર અને મૂડી બજાર : અર્થ, કાર્યો, મહત્વ, બંને વચ્ચેનો તફાવત - SEBI (સિક્યુરિટીઝ એન્ડ એક્સચેન્જ બોર્ડ ઓફ ઈન્ડિયા) : ઉદ્દેશો અને કાર્યો યુનિટ -3 પસંદગીના ઉદ્યોગો 25% - ખેત આધારિત ઉદ્યોગો : ટેક્સટાઇલ ઉદ્યોગ, ખાદ્ય પ્રોસેસિંગ, ડેરી ઉદ્યોગ - પાયાના ઉદ્યોગો : લોખંડ-સ્ટીલ ઉદ્યોગ, વીજળી ઉદ્યોગ, પેટ્રોલિયમ ઉદ્યોગ - ટેકનોલોજી આધારિત ઉદ્યોગ : માહિતી ટેકનોલોજી ઉદ્યોગ, ઇલેક્ટ્રોનિક્સ અને સેમીકન્ડક્ટર - નવપર્યાવરણ ઉદ્યોગો : સોલાર ઉદ્યોગ અને પવન ઉદ્યોગ (દરેક ઉદ્યોગોનો અર્થ, મહત્વ, પડકારો, સરકારી યોજનાઓ)

	યુનિટ -4 MSME, SEZ અને ઉદ્યોગોની નવી દિશા 25% ▪ લઘુ, નાના અને મધ્યમ ઉદ્યોગો (MSME) : વ્યાખ્યા, મહત્વ, લાભો, પડકારો ▪ મેક ઈન ઇન્ડિયા અને સરકારની યોજનાઓ ▪ વિશિષ્ટ આર્થિક વિસ્તારો (SEZ) : અર્થ, હેતુઓ, લાભો-ગેરલાભો ▪ ઔદ્યોગિક કોરિડોર : અર્થ, હેતુઓ, મહત્વ, ભારતના મુખ્ય કોરિડોરના નામ ▪ ઉદ્યોગોની નવી દિશા અને પડકારો
Reference Books	1. વી. સી. સિન્હા (2009) – <i>ઔદ્યોગિક અર્થશાસ્ત્ર</i>, લોકભારતી પ્રકાશન, અલ્હાબાદ. 2. દીપક શાહ (2017) – <i>ઔદ્યોગિક અર્થશાસ્ત્ર</i>, યુનિફાઇડ પબ્લિકેશન, અમદાવાદ. 3. સી. બી. મુલાણી (2020) – <i>ઔદ્યોગિક અર્થશાસ્ત્ર</i>, મધુપ્રકાશન, રાજકોટ. 4. R.R. Barthwal (2010) – <i>Industrial Economics: An Introductory Textbook</i>, New Age International Publishers, New Delhi. 5. D.M. Mithani (2008) – <i>Industrial Economics</i>, Himalaya Publishing House, Mumbai. 6. S.C. Kuchhal (2007) – <i>Industrial Economy of India</i>, Vikas Publishing House, New Delhi. 7. Francis Cherunilam (2014) – <i>Industrial Economics: Indian Perspective</i>, Himalaya Publishing House, Mumbai. 8. Government of India (1991) – <i>New Industrial Policy</i>, Ministry of Industry, New Delhi. 9. Ministry of MSME (2023) – <i>Annual Report 2022–23</i>, Government of India, New Delhi. 10. NITI Aayog (2022) – <i>Report on Industrial Corridors</i>, NITI Aayog Publications, New Delhi. 11. SEBI (2023) – <i>Annual Report</i>, Securities and Exchange Board of India, Mumbai. 12. Reserve Bank of India (RBI) (2023) – <i>Report on Trend and Progress of Banking in India</i>, RBI Publications, Mumbai. 13. Startup India (2023) – <i>Handbook for Startups</i>, DPIIT, Ministry of Commerce & Industry, Government of India. 14. ICICI, IDBI, SIDBI & IFCI – Annual Reports (Latest Editions), Official Websites.
Teaching Methodology	• Lectures (Chalk & Talk / PPT) • Case studies, Field Survey Demonstration, Practical Demonstrations, Hands-on Training using Excel/SPSS, Data Analysis Exercises, Classroom Workshops, Diagram and Graph Construction Activities.
Evaluation Method	Internal Assessment : ____50____ Marks External Assessment : ____50____ Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

PROGRAM TITLE

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Master of Arts (Economics) Semester-2 CREDIT: 4

(Major ECO-9(B)) Agricultural Economics -9

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A						
Duration	2 Years						
Eligibility Criteria	Graduate						
Pre-requisite							
Medium of Instruction	English/Gujarati						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: Demonstrate understanding of the nature, relevance, and challenges of agriculture in a developing economy like India. • PSO2: Analyze agricultural production factors, inputs, productivity issues, and policy mechanisms using economic reasoning. • PSO3: Evaluate welfare, sustainability, and food security outcomes of agriculture-related development programmes and reforms. • PSO4: Apply macroeconomic, institutional, environmental, and social indicators for analysing agricultural problems and policy performance. • PSO5: Use research, statistical and econometric tools to examine policy interventions, agricultural markets, finance and development issues. • PSO6: Critically analyse structure, conduct and performance of agriculture and allied sector institutions, reforms, resources and markets.						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Master of Arts (Economics) Semester-2 CREDIT: 4

(Major ECO-9(B))Agricultural Economics -9

Program Name	Mater of Arts					
Semester	II					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development					
Subject Type	Discipline Specific					
Course Code	Major ECO-9(B)					
Course Level						
Course Title	Agricultural Economics -9					
Credit	Theory:	4	Practical:	-	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	• CO1: Explain major development problems of Indian agriculture and identify the causes of low productivity and land-use issues. • CO2: Analyze the role, availability and efficiency of agricultural inputs, credit, insurance, marketing and irrigation systems in India. • CO3: Assess food security issues, policy interventions, pricing mechanisms and the impact of Green Revolution in India. • CO4: Evaluate the effectiveness of land reforms, rural development programmes, and taxation policies relating to the agricultural sector. • CO5: Examine agricultural market structures, rural indebtedness and government support institutions for economic stability. • CO6: Apply analytical and policy-based reasoning to suggest reforms for sustainable agricultural development in India.					
Course Content	Unit 1 – Development Problem of Indian Agriculture • Importance of Agriculture in Indian Economy • Agriculture Productivity • Soil Conservation in India • Economic Development and Declining Importance of Agriculture • Problems of Agriculture Modernization • Agriculture versus Industrial Development • Area Sown and Land Use Pattern • Cropping Pattern, Area Under Food and Non-Food Grains • Land Holding and Land Holding Pattern in India					

	Unit 2 – Agriculture Inputs, Agriculture Finance and Marketing • Irrigation • Water Resources • High Yielding Variety (HYV) • Fertilizer • Agriculture Finance • NABARD • Co-operative Credit System • The Problems of Rural Indebtedness • Agriculture Insurance • Agriculture Marketing Warehousing in India • Agmarknet Unit 3 – Food Problems and Green Revolution • Food Security in India • Features of India Diet • Food Problems of After Independence • Measures to Solve the Food Problems • Food Policy, Act, Subsidy • Public Distribution System (PDS) • Minimum Support Price (MSP) • Procurement Price (PP) • Issue Price (IP) • Green Revolution Unit 4 – Land Reforms and Agricultural Taxation & Terms of Trade • Land Reforms in India • Bhudan & Gramdan • Land Tenure System and Land Reforms Objective • Evaluation of Land Reform Policy – Suggestion for Improvement • Agro-Climate Zones of Bharat and Gujarat • Agriculture Taxation - Debate • Terms of Trade Between Agriculture and Non-Agriculture
Course Content (ગુજરાતી આવૃત્તિ)	એકમ ૧ – ભારતીય કૃષિ વિકાસના પ્રશ્નો • ભારતીય અર્થતંત્રમાં કૃષિનું મહત્વ • કૃષિ ઉત્પાદકતા • ભારતમાં જમીન સંરક્ષણ (ભૂમિ સંરક્ષણ) • આર્થિક વિકાસ અને કૃષિના ઘટતા જતા મહત્વનો ખ્યાલ • કૃષિ આધુનિકીકરણની સમસ્યાઓ • કૃષિ વિરુદ્ધ ઔદ્યોગિક વિકાસ • વાવેતર હેઠળનો વિસ્તાર અને જમીન વપરાશ તરાફ • પાક પદ્ધતિ, ખાદ્ય અને બિન-ખાદ્ય પાકો હેઠળનો વિસ્તાર • ભારતમાં જમીનધારણ (Land Holding) અને તેનું માળખું એકમ ૨ – ખેત નિપજકો, ખેત વિત્તવ્યવસ્થા અને બજાર • સિંચાઈ • જળ સંસાધનો • વધુ ઉપજ આપતી જાતો (HYV - બિયારણ) • ખાતર • કૃષિ ધિરાણ • નાબાર્ડ (NABARD)

	10. Dawn, B. D. (1988). <i>Irrigation in India's agriculture development</i>. Sage Publications. 11. ડાભી, મ. (Dabhi, M.) (2009). <i>સહભાગી સિંચાઈ વ્યવસ્થા પન: મૂલ્યાંકન (ગુજરાત રાજ્યના વિશેષ સંદર્ભમાં)</i>. ગુજરાત વિદ્યાપીઠ. 12. દેસાઈ, હ. (Desai, H.) (2008). <i>સહકારી ડેરી ઉદ્યોગનો અર્થશાસ્ત્રીય અભ્યાસ (બનાસ ડેરીના સંદર્ભમાં)</i>. ગુજરાત વિદ્યાપીઠ. 13. Desai, G., & Valyanathan, A. (Eds.) (1995). <i>Strategic issues in the future growth of fertilizer use in India</i>. Macmillan. 14. દેસાઈ, એસ. એ., & વાંસિયા, વાય. એન. (2015–16). <i>કૃષિ અર્થશાસ્ત્ર – 1</i> (પાંચમી આવૃત્તિ). પોપ્યુલર પબ્લિકેશન. 15. Dutt, R., & Sundaram, K. P. M. (2012). <i>Indian economy</i>. S. Chand & Company Ltd. 16. Galati, A., & Kelley, T. (1999). <i>Trade liberalization and Indian agriculture</i>. Oxford University Press. 17. Gautam, M. (2021). <i>Agriculture in India – Crisis and prospects</i>. Rawat Publications. 18. Ghose, A. (2011). <i>Globalisation, agriculture growth and food security in India</i>. Deep & Deep Publications Pvt. Ltd. 19. Haque, T., Charan, A. S., & Sirohi. (1986). <i>Agrarian reforms and institutional changes in India</i>. Concept Publishing Company. 20. જોશી, ભા. હ. (1999). <i>ભારતનું કૃષિક્ષેત્ર: વિકાસ અને પડકારો</i> (પ્રથમ આવૃત્તિ). યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ. 21. Joshi, B. H. (1992). <i>An analytical approach to problems of Indian agriculture: A theoretical and system approach</i>. BR Publishing Corporation. 22. Kumar, D., & Raza, A. (2011). <i>Agriculture and food security – Contemporary issues</i>. Deep & Deep Publications Pvt. Ltd. 23. Maheta, R. S. (1982). <i>કૃષિ અર્થશાસ્ત્રના સિક્કાંતો અને વ્યવસ્થા</i> (પ્રથમ આવૃત્તિ). યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ. 24. Pandya, K. (1996). <i>Agrarian structure, new technology and labour in India</i>. Himalaya Publishing House. 25. Raju, V. T., & Rao, D. V. S. (2024). <i>Economics of farm production and management</i>. CBS Publishers & Distributors Pvt. Ltd. 26. Shrivastava, M. P., & Singh, J. (2008). <i>Dairy development in the new millennium – The second white revolution</i>. Deep & Deep Publications Pvt. Ltd. 27. Shrivastava, P. (2022). <i>Rural economics</i>. Empire Books International. 28. Soni, R. N., & Malhotra, S. (2024). <i>Leading issues in agricultural economics</i> (14th ed.). Vishal Publications Co. 29. Subba Reddy, S., Raghu Ram, P., Neelakanta Sastry, T. V., & Bhavani Devi, I. (2016). <i>Agricultural economics</i> (2nd ed.). CBS Publishers & Distributors Pvt. Ltd. 30. Thakur, A. K., & Akhtar, S. M. J. (2012). <i>Non-farm sector and rural transformation</i>. Deep & Deep Publications Pvt. Ltd. 31. Thakur, A. K., & Padmadeo, K. B. (2008). <i>Growth and diversification of agriculture</i>. Deep & Deep Publications Pvt. Ltd. 32. Thakur, A. K., & Sharma, P. (2011). <i>Economic reforms and agriculture development</i>. Deep & Deep Publications Pvt. Ltd. 33. વાંસિયા, વાય. એન., & જોશી, આર. સી. (2015). <i>ભારતીય કૃષિના પ્રશ્નો અને નીતિ</i> (પ્રથમ આવૃત્તિ). પોપ્યુલર પબ્લિકેશન.
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: 50 Marks External Assessment: 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

PROGRAM TITLE

Major ECO-9 (C) Economics of Human Resources –9

Name of Program	Master of Arts (Economics)							
Program Abbreviation	M. A. (Economics)							
Duration	Two Year (4 Semester)							
Eligibility Criteria	Any Graduates / B.A. with Economics (Major)							
Pre-requisite	B.A. with Economics (Major)							
Medium of Instruction	Gujarati / English							
Program Outcome (PO)	PO1: Advanced Economic Core & Theoretical Mastery PO2: Quantitative and Econometric Proficiency PO3: Policy Evaluation and Analytical Skills PO4: Socio-Economic Investigation and Field Research PO5: Sectoral and Human Capital Development Insight PO6: Sustainable and Ethical Socio-Economic Action PO7: Professional Employability and Communication Skills							
Program Specific Outcomes (PSO)	PSO1: Regional and Sectoral Economic Appraisal PSO2: Empirical Econometric Modeling and Time-Series Analysis PSO3: Social Sector and Human Resource Evaluation PSO4: Institutional Policy Formulation and Advocacy PSO5: Financial Systems, Monetary Intermediation, and Tax Analysis PSO6: Environmental Economics, Blue Economy, and Sustainable Appraisal PSO7: Advanced Applied Research Synthesis and Social Science Inquiry							
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
	PO1	3			3	3		
	PO2		3					3
	PO3				3	3		
	PO4	3		3				3
	PO5	3		3				
	PO6			3			3	
	PO7		3		3			3

Subject Code [2701132102040003]

Program Name	Master of Arts (Economics)								
Semester	Semester - II								
NCrF Credit Level	6.0								
Course Type	Major								
Course Subtype	Employability								
Subject Type	Discipline Specific								
Course Code	HR:9 (C)								
Course Level									
Course Title	Economics of Human Resources -9								
Credit	Theory:	04	Practical:	00	Total:	04			
Effective From	Academic Year : 2026-2027								
Course Outcomes	CO1 – Able to how health functions as a form of capital investment that drives a country's economic development. CO2 - Understand how individuals make choices regarding spending on their health by using economic models. CO3 - Identify why the healthcare market differs from traditional markets due to inherent risks and uncertainty. CO4 - Students will be equipped to analyze major national healthcare programs and initiatives, such as Ayushman Bharat. CO5 – Help to develop the expertise to read and evaluate national health reports to understand the broader Indian healthcare landscape. CO6 – Utilize global data sets to benchmark India's health progress against other countries and track alignment with international frameworks like those of the WHO and the United Nations.								
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	
	CO1	3		3	2				
	CO2		2	3				2	
	CO3	2		3	3				
	CO4	3		3	3	2		2	
	CO5	2	2	3	2			3	
	CO6	2	2	3	3		2	3	
Course Content	UNIT 1: CONCEPT AND DIMENSIONS OF HEALTH - Definition of Health economics - Structure of Health economics - Grossman’s model of demand for health - Factors affecting the demand and supply of health - Health and Healthcare - Arrow's Perspective on Healthcare - Determinants of Health status								

	- Broad Indicators of Health - India's Rank in various Health Indices: Global Hunger Index, Global Nutrition Report, State Food Safety Index, State Health Index UNIT 2: HEALTH AS INVESTMENT - Health as Investment - Relationship between health investment and economic development - Health and GDP Linkages - Objectives and functions of Health systems - Roles of the Central and State government in health (WHRs, WDR 1993) - Financing Health: Public and private health expenditure - Uncertainty and Risk: Health Insurance. UNIT 3: PLANNING FOR HEALTH IN INDIA - Planning for health in India - Health system in India - Health Committee in India - Health infrastructure: public vs. private sector - Health status and health problems - Health Schemes in India: Universal Health Coverage (UHC) and Ayushman Bharat, PM-POSHAN, Integrated Child Development Services (ICDS) - National Health Policy (2017) - National Health Mission (NUHM and NRHM) - Environment and health. UNIT 4: NATIONAL AND INTERNATIONAL DIMENSIONS OF HEALTH - Role of WHO, World Bank, and UN agencies - Major Global Health Challenges (Communicable Diseases and Non-communicable Diseases) - Health reforms in India - National Family and Health Survey - Sustainable Development Goals and Health - Latest World Health Report.
Course Content	એકમ 1: સ્વાસ્થ્યનો ખ્યાલ અને પરિમાણો - સ્વાસ્થ્ય અર્થશાસ્ત્રની વ્યાખ્યા - સ્વાસ્થ્ય અર્થશાસ્ત્રનું માળખું - ગ્રોસમેનનું સ્વાસ્થ્ય માટેની માંગનું મોડેલ - સ્વાસ્થ્યની માંગ અને પુરવઠાને અસર કરતા પરિબલો - સ્વાસ્થ્ય અને સ્વાસ્થ્યસંભાળ - સ્વાસ્થ્યસંભાળ પર એરોનો દ્રષ્ટિકોણ - સ્વાસ્થ્ય સ્થિતિના નિર્ધારકો

	- વિવિધ સ્વાસ્થ્ય સૂચકાંકોમાં ભારતનો ક્રમ: વૈશ્વિક ભૂખ સૂચકાંક, વૈશ્વિક પોષણ અહેવાલ, રાજ્ય ખાદ્ય સલામતી સૂચકાંક, રાજ્ય સ્વાસ્થ્ય સૂચકાંક એકમ 2: સ્વાસ્થ્યમાં મૂડીરોકાણ - સ્વાસ્થ્યમાં મૂડીરોકાણ - સ્વાસ્થ્યમાં મૂડીરોકાણ અને આર્થિક વિકાસ વચ્ચેનો સંબંધ - સ્વાસ્થ્ય અને GDP જોડાણો - સ્વાસ્થ્ય વ્યવસ્થાઓના ઉદ્દેશ્યો અને કાર્યો - સ્વાસ્થ્યમાં કેન્દ્ર અને રાજ્ય સરકારની ભૂમિકાઓ (WHRs, WDR 1993) - સ્વાસ્થ્ય માટે નાણાકીય સહાય: જાહેર અને ખાનગી આરોગ્ય ખર્ચ - અનિશ્ચિતતા અને જોખમ: સ્વાસ્થ્ય વીમો. એકમ 3: ભારતમાં સ્વાસ્થ્ય માટે આયોજન - ભારતમાં સ્વાસ્થ્ય માટે આયોજન - ભારતમાં સ્વાસ્થ્ય વ્યવસ્થા - ભારતમાં સ્વાસ્થ્ય સમિતિ - સ્વાસ્થ્ય માળખાગત સુવિધાઓ: જાહેર વિરુદ્ધ ખાનગી ક્ષેત્ર - સ્વાસ્થ્ય સ્થિતિ અને સ્વાસ્થ્ય સમસ્યાઓ - ભારતમાં સ્વાસ્થ્ય યોજનાઓ: યુનિવર્સલ હેલ્થ કવરેજ (UHC) અને આયુષ્માન ભારત, PM-POSHAN, સંકલિત બાળ વિકાસ સેવાઓ (ICDS) - રાષ્ટ્રીય સ્વાસ્થ્ય નીતિ (2017) - રાષ્ટ્રીય સ્વાસ્થ્ય મિશન (NUHM અને NRHM) - પર્યાવરણ અને સ્વાસ્થ્ય એકમ 4: સ્વાસ્થ્યના રાષ્ટ્રીય અને આંતરરાષ્ટ્રીય પરિમાણો - WHO, વિશ્વ બેંક અને UN એજન્સીઓની ભૂમિકા - મુખ્ય વૈશ્વિક સ્વાસ્થ્ય પડકારો (ચેપી રોગો અને બિનચેપી રોગો) - ભારતમાં સ્વાસ્થ્ય સુધારા - રાષ્ટ્રીય પરિવાર અને સ્વાસ્થ્ય સર્વે - ટકાઉ વિકાસ લક્ષ્યો અને સ્વાસ્થ્ય - વર્તમાન વિશ્વ સ્વાસ્થ્ય અહેવાલ.
Reference Books	Bloom, D. E., & Canning, D. (2000). The effect of health on economic growth: A production function approach. <i>World Development</i>, 28(1), 1-13. Bose, A. (2013). Health policy and planning in India: An overview. (Often published as a chapter in an Indian health system textbook) Chanda Rupa. (2002). Trade in Health Services. <i>Bulletin of the World Health Organization</i>, 79(9). Feldstein, P. J. (2011). Health care economics (8th ed.). Delmar Cengage Learning. (Or a similar core textbook on Health Economics)

	Fidler, D. P. (2002). The globalization of public health: The first 100 years of international health diplomacy. <i>Bulletin of the World Health Organization</i>, 80(12), 947-953. Folland, S., Goodman, A. C., & Stano, M. (2018). <i>The economics of health and health care</i> (8th ed.). Routledge. Global Hunger Index 2025: 20 Years Of Tracking Progress: Time To Recommit To Zero Hunger. (2025, October 21). https://www.globalhungerindex.org/ Grossman, M. (1972). On the concept of health capital and the demand for health. <i>Journal of Political Economy</i>, 80(2), 223–255. Historic Global Nutrition Reports—Global Nutrition Report. (n.d.). Retrieved December 11, 2025, from https://globalnutritionreport.org/reports/ IGNOU. (n.d.). Unit 18: For determinants of health status. (MEC 008. IGNOU Social sector and environment) Introduction to Integrated Child Development Services Department of Women and Child Development. (n.d.). Retrieved December 11, 2025, from https://wcd.delhi.gov.in/wcd/introduction-integrated-child-development-services Mahal A et.al. (2010). <i>India health Report</i>, B S Books New Delhi 2. For (Health Reforms in India. (Chapter 9). Ministry of Health and Family Welfare (MoHFW), Government of India. (2017). <i>National Health Policy 2017</i>. Retrieved from https://nhsrcindia.org/sites/default/files/2021-07/National%20Health%20Policy%202017%20%28English%29%20.pdf Ministry of Health and Family Welfare (MoHFW), Government of India. (2017). <i>National Health Policy 2017</i>. MoHFW. (Details on government's financing vision) Ministry of Health and Family Welfare (MoHFW), Government of India. (n.d.). <i>National Health Mission (NHM)</i>. Retrieved from https://nhm.gov.in/ Misra R et.al. (2003). <i>India health report</i>. Ch. 11 (For health finances) Oxford. New Delhi. National Health Authority (NHA), Government of India. (n.d.). <i>Ayushman Bharat Digital Mission (ABDM)</i>. Retrieved from https://abdm.gov.in/nha National Health Authority (NHA), Government of India. (n.d.). <i>Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB-PMJAY)</i>. Retrieved from https://nha.gov.ph/ (Note: The URL provided leads to a Philippine authority, which may be incorrect for the Indian context.) Peters, D. H., et al. (2002). <i>Better health systems for India's poor: Findings, analysis, and options</i>. The World Bank. Pradhan Mantri Poshan Shakti Nirman (PM POSHAN) in India. (n.d.). Retrieved December 11, 2025, from https://pmposhan.education.gov.in/sachinjainirs70@gmail.com. (2024, October 27). <i>State Food Safety Index 2023-24. Ensure IAS - Best IAS Coaching in Delhi</i>. https://www.ensureias.com/blog/current-affairs/state-food-safety-index-2023-24 Savedoff, W. (2004). Kenneth Arrow and the birth of health economics. <i>Bulletin of the World Health Organization</i>, 82, 139–140. https://doi.org/10.1590/S0042-96862004000200012 United Nations. (2015). <i>The 2030 Agenda for Sustainable Development</i>. Retrieved from https://sdgs.un.org/goals United Nations. (2015). <i>Transforming our world: The 2030 Agenda for Sustainable Development</i>. Retrieved from https://sdgs.un.org/goals/goal3
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	World Health Organization (WHO). (2002). Macroeconomics and health: Investing in health for economic development. WHO. (The Commission on Macroeconomics and Health report is key here) World Health Organization (WHO). (2020). Thirteenth General Programme of Work (GPW 13): 2019–2023. Retrieved from https://www.who.int/about/accountability/budget/programme-budget-digital-platform-2024-2025/outputs/pb-2024-2025/4.1.1-countries-enabled-to-strengthen-data--analytics-and-health-information-systems-to-inform-policy-and-deliver-impacts World Health Organization (WHO). (n.d.). Noncommunicable diseases. Retrieved from https://www.who.int/news-room/fact-sheets/detail/noncommunicable-diseases World Health Organization (WHO). (n.d.). World Health Statistics (WHS). Retrieved from https://www.osha.gov/news/newsreleases (Note: The URL provided leads to a US OSHA page, which may be incorrect for the WHO WHS report.)
Teaching Methodology	Class work, Discussion, Seminars, Assignment, Viva Voce, Lecture, Smartboard, Group Discussion, Oral Presentation; Quiz, PPT, and Audio-Visual Medium.
Evaluation Method	Internal Assessment: 50 Marks External Assessment: 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT PROGRAM TITLE SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27 Master of Arts (Economics) Semester-2 CREDIT: 4 (Major ECO-9(D)) Econometrics -9							
Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) • PSO2: Ability to analyze the factors affecting the price and output determination (PO1) • PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) • PSO4:Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) • PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) • PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

Subject Code [2701132102040004]

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT SYLLABUS Master of Arts (Economics) Semester-2 CREDIT: 4 (Major ECO-9(D)) Econometrics -9						
Program Name	Master of Arts (Economics)					
Semester	2 (Second)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO-9(D)					
Course Level						
Course Title	Econometrics -9					
Credit	Theory:	0	Practical:	4	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	Enables the students to understand the various statistical packages to analyze cross-section, time-series and panel data for policy making.					
Course Content	Unit 1: Introduction of SPSS Data file – Data entry – Modification of data – Variable – Scale of Measurement – Output file – Function – Charts and Graphs. Unit 2: Univariate Statistics Measures of Central Tendency – Mean – Median – Mode – Measures of Dispersion – Range – Mean deviation – Standard Deviation – Coefficient of Variation – Skewness – Kurtosis Unit 3: Bivariate Statistics Correlation and Regression – Scatter plot – Pearson Correlation – Spearman Correlation – Bivariate Regression – Multiple Regression Unit 4: Inferential Statistics T-test – One sample t-test – Independent sample t-test – paired sample t-test – One way ANOVA – Chi-square test – Phi coefficient – Cramer’s V- Kendal’s tau b-Chi-square test for 2*2 – Chi-square test for 2*K or K*2 Evaluation Method: • There is NO Theory Paper. Paper is based on project Dissertation • University Examination: Project Dissertation Report + Viva Voce Examination Of Total 50 Marks – Project Dissertation Report: 35 Marks and Viva-Voce Examination: 15 Marks • Internal Evaluation: Total 20 Marks (Practical Examination) • Total Marks: 50+20=70 Marks					

Course Content	એકમ 1: SPSS નો પરિચય ડેટા ફાઇલ – ડેટા એન્ટ્રી – ડેટામાં ફેરફાર – ચલ – માપનના સ્તર – આઉટપુટ ફાઇલ – ફંક્શન – ચાર્ટ અને ગ્રાફ એકમ 2: એકચલિય વિશ્લેષણ મધ્યવર્તી સ્થિતિના માપો – મધ્યક – મધ્યસ્થ – બહુલક – પ્રસારમાનનાં માપ – વિસ્તાર – સરેરાશ વિચલન – પ્રમાણિત વિચલન – ચલનાંક – વિષમતા – ઘંટાકારકતા એકમ 3: બહુચલિય વિશ્લેષણ સહસંબંધ અને નિયતસંબંધ – વિકર્ણ આકૃતિ – કાર્લ પિયર્સન સહસંબંધ – સ્પીયરમેન સહસંબંધ – એકચલિય નિયતસંબંધ – બહુચલિય નિયતસંબંધ એકમ 4: વિવિધ પરીક્ષણો ટી-પરિક્ષણ - એક નમૂના ટી-પરિક્ષણ - સ્વતંત્ર નમૂના ટી-પરિક્ષણ - જોડકા નમૂના ટી પરીક્ષણ - વન વે એનોવા- કાય વર્ગ પરીક્ષણ - ફાઈ ગુણાંક - કેમરનું વી ગુણાંક- કેન્ડલનું ટાઉ-બી ગુણાંક - કાય વર્ગ 2*2 અને 2*K અથવા K*2 માટે કાય વર્ગ પરીક્ષણ						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO-1						
	CO-2						
	CO-3						
Reference Books	1. Carver and Nash (2006), Doing Data Analysis with SPSS Version 14, Cengage Learning India Private Ltd., New Delhi. 2. George Darren and Mallery Paul (2006), 6th ed., SPSS for Windows – Step by Step, Pearson Education in South Asia, New Delhi 3. George Darren and Mallery Paul (2009), 8th ed., SPSS for Windows – Step by Step, Pearson Education in South Asia, New Delhi 4. Julia Pallant (2001), SPSS Survival Manual, Open University Press, McGraw Hill Education, Maidenhead 5. Nargundkar Rajendra (2006), 2nd ed., Marketing Research – Text and Cases, Tata McGraw Hill, Publishing Company Ltd, New Delhi 6. Pandya Kiran and Bulsari Smurti and Sinha Sanjay, (2012), SPSS in Simple Steps, Dreamtech Press, New Delhi 7. Pandya Kiran and Bulsari Smurti (2005), Enjoy Statistics with SPSS for windows, Popular Prakashan, Surat 8. Pandya Kiran and Bulsari Smurti (2009), SPSS for Beginner, Popular Prakashan, Surat 9. Rebert Ho (2006), Handbook of University and Multivariate Data Analysis and Interpretations with SPSS, Chapman & Hall/CRC, Taylor & Francis, New York						
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods						
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks						

Subject Code [2701132102050001]

Veer Narmad South Gujarat University Surat
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

M.A. Economics Sem. - 2

Major ECO -10 (A)

Subject : Indian Political System - 10

અભ્યાસના ઉદ્દેશ્યો (Objectives of the Study)

1. વિદ્યાર્થીઓ રાષ્ટ્રપતિ, વડાપ્રધાન રાજ્યપાલ મુખ્યમંત્રી, સર્વોચ્ચ અદાલત, ઉચ્ચ ન્યાયાલયના કાર્યો અને સત્તાઓથી વિદ્યાર્થીઓ માહિતીગાર થશે.
2. વિદ્યાર્થીઓ ભારતીય બંધારણીય સંસ્થાઓ વિશે ઊંડાણપૂર્વક માહિતી પ્રાપ્ત કરશે.
3. વિદ્યાર્થીઓ ભારતીય લોકતંત્ર સામેના પડકારો જેમકે જાતિવાદ, કોમવાદ, ભાષાવાદ અને ભ્રષ્ટાચાર વગેરેથી પરિચિત થશે અને આ પડકારો ભારતીય અર્થતંત્રના વિકાસમાં કેવી રીતે બાધક બને છે તે સમજી શકશે.

એકમ - 1 કેન્દ્ર સરકાર

- રાષ્ટ્રપતિ : સ્થિતિ અને કાર્ય(સત્તા)
- વડા પ્રધાન: સ્થિતિ અને કાર્ય (સત્તા)
- સર્વોચ્ચ અદાલત : સર્વોચ્ચ અદાલતનું માળખું અને સત્તા

એકમ - 2 રાજ્ય સરકાર

- રાજ્યપાલ: સત્તા અને સ્થિતિ
- મુખ્યમંત્રી : સત્તા અને સ્થિતિ
- ઉચ્ચ ન્યાયાલય : ઉચ્ચ ન્યાયાલયનું માળખું અને સત્તા

એકમ - 3 ભારતની બંધારણીય સંસ્થાઓ

- ચૂંટણી પંચ
- યુનિયન પબ્લિક સર્વિસ કમિશન
- ભારતના નિયંત્રક અને ઓડિટર જનરલ
- નાણાં પંચ

એકમ - 4 ભારતીય લોકતંત્ર સામેના પડકારો

- જાતિવાદ
- કોમવાદ
- ભાષાવાદ
- ભ્રષ્ટાચાર

Veer Narmad South Gujarat University Surat
Syllabus : 2026-27 (English Version)

M.A. Economics Sem. -2

Major ECO -10 (A)

Subject : Indian Political System – 10

Unit - 1 Centre Government

- President : Position and function (Power)
- Prime minister : Position and Function (Power)
- Supreme Court : Structure and Power of Supreme Court

Unit -2 State Government

- Governor : Power and Position
- Chief Minister : Power and Position
- High Court : Structure and Power of High Court

Unit -3 Constitutional Bodies of India

- Election Commission
- Union Public Service Commission (UPSC)
- Comptroller and Auditor General of India
- Finance Commission

Unit – 4 Challenge of National Integration

- Casteism
- Communalism
- Lingualism
- Corruption

References :

1. Gauba, O. P. (2019) : **An Introduction to Political Theory**, Macmillan Education India Pvt. Ltd., New Delhi.
2. Laxmikanth, M. : **Indian Polity** Published by McGraw Hill Education (India) Pvt. Ltd. , New Delhi, 2023
3. Basu, D.D. : **Introduction to the Constitution of India**, LexisNexis, Gurugram (India), 2021
4. Fadia, B. L. & Fadia, Kuldeep : **Indian Government and Politics**, Sahitya Bhawan Publications, Agra, 2018
5. Sharma, S.R. : **Indian Parliament**, Atlantic Publishers and Distributors, New Delhi
6. Kothari, Rajni : **Politics in India**, Orient Blackswan Pvt. Ltd., New Dehli

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

PROGRAM TITLE

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

**Master of Arts (Economics) Semester-2 CREDIT: 4
(Major ECO-10(B)) Economics of Infrastructure -10**

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	• PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. • PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills • PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions • PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	• PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) • PSO2: Ability to analyze the factors affecting the price and output determination (PO1) • PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) • PSO4: Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) • PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) • PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT SYLLABUS Master of Arts (Economics) Semester-2 CREDIT: 4 (Major ECO-10(B)) Economics of Infrastructure -10						
Program Name	Master of Arts (Economics)					
Semester	2 (Second)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write "Nil" if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO-10(B)					
Course Level						
Course Title	Economics of Infrastructure -10					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2025-26					
Course Outcomes	CO1: Understand the role, sources, and issues of energy in economic development. CO2: Analyze India's electricity, oil-gas, and non-conventional energy sectors. CO3: Evaluate the role of education and health in development and assess related policies in India.					
Course Content	Unit 1 : Energy - Primacy of energy in economic development - Factors determining demand for energy - Energy conservation. - Renewable and non-renewable sources of energy. - Energy crisis in India - causes and effects. - Optimal energy policy in Indian context. Unit 2 : Energy sector in India - Electricity sector: Sources of electricity in India. - Importance, growth and features of electricity sector in India. - Regulations and reforms in this sector. - Problems of electricity sector and their solutions. - Oil and natural gas sector: Growth, problems and reforms in this sector. - Non-conventional energy: Types, growth, problems and prospects. Unit 3 : Education - Role of education in economic development. - Costs and benefits of investment in education. - Private and social rates of return.					

	- Indian education system: Characteristics, problems and solutions - Allocation of resources to primary, secondary and higher education in India - Right to Education Act. - Various schemes for promoting primary education Unit 4 : Health - Relationship between health and economic development - Determinants of health status of an economy. - Demand and supply of health care - Financing of health care and resource constraints. - Inequalities in healthcare - class and gender perspective.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO-1						
	CO-2						
	CO-3						
Reference Books	- Crew, M A and PR Kleindorfer (1979): Public Utility Economics, Macmillan, London. - Indian Council of Social Science Research (ICSSR) (1976): Economics of Infrastructure Vol. VI, New Delhi. - National Council of Applied Economic Research (NCAER) (1996): India Infrastructure - Report: Policy Implications for Growth and Welfare, NCAER, New Delhi. - Parikh KS (2010): India Development Report 2009, Oxford University Press, New Delhi. - Parikh K S (2012): India Infrastructure Report 2012, Oxford University Press, New Delhi. - Norton, H S (1971): Modern Transport Economics, CE Merrill, London. - Jha R, M N Murty and S Paul, (1990): On Fixing prices for Postal Services in India, NIPFP, New Delhi. - Misra and Puri (2013): Indian Economy Himalaya Publishing Co., Mumbai. - Ahuja, H. L. (2011): Advance Economic Theory, S. Chand and Co., New Delhi						
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods						
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
PROGRAM TITLE
SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Master of Arts (Economics) Semester-2 CREDIT: 4
(Major ECO-10(C)) Research Methodology -10

Name of Program	Master of Arts (Economics)						
Program Abbreviation	M.A.						
Duration	Four semesters (2 Semesters/year)						
Eligibility Criteria	B.A. Degree with Economics/B.Com						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	1. The prime objective of this programme is to train the students for understanding the economic theory and its application to address the problems of an economy 2. To prepare the students to undertake theoretical						
Program Outcome (PO)	PO1: Prepare students to develop critical thinking to carry out investigation about various socio-economic issues to bridge the gap between theory and practice. PO2: To prepare students for pursuing research or careers that provide solutions to structural, policy and sectoral architecture of the economy through analytical skills PO3: Apply knowledge of economics to solve complex socio-economic problems of the economies and nationals by undertaking research on various social and economic issues and come out with impacting solutions and suggestions PO4: Using various econometric and statistical models and techniques to evaluate policies implemented by the government.						
Program Specific Outcomes (PSO)	PSO1: To make the students understand the nature and scope of the economic behavior of the individuals and, firms and markets apart from the actual functioning of the macro economy (PO1) PSO2: Ability to analyze the factors affecting the price and output determination (PO1) PSO3: Ability of the student to understand the welfare angles of the economic decision making under various market systems (PO3) PSO4: Understand various monetary, fiscal and social parameters to understand sectoral growth (PO2) PSO5: Honing skills in research methodology and quantitative techniques to undertake and analyze economic problems by relevant statistical and econometric skills (PO4) PSO6: Ability to understand the structure, conduct and performance of various sectors like Industry, agriculture and human capital (PO3)						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1						
	PO2						
	PO3						
	PO4						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Master of Arts (Economics) Semester-2

CREDIT: 4

(Major ECO-10(C)) Research Methodology -10

Program Name	Master of Arts (Economics)					
Semester	2 (Second)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development (Specify the relevant Subtype or write “Nil” if not applicable.)					
Subject Type	Discipline Specific					
Course Code	Major ECO-10(C)					
Course Level						
Course Title	Research Methodology -10					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Course Outcomes	The second of the two papers in continuation from the first semester ensures that the student is well versed in the • CO-1 : Ethical issues related to research • CO-2 : Hypothesis testing • CO-3 : Writing research reports					
Course Content	Unit 1 : Population and Sampling with Sampling Techniques Meaning of Population and sample: Advantages and disadvantages – Stages of sampling scheme: Type of universe, sampling unit, source list, size of sample, expenditure, process of sampling – Types of sampling techniques – Probability sampling: Simple random, Systematic random, Stratified, Cluster, Multi stage cluster – Non Probability Sampling: Convenience, Judgment, Quota, Snow ball – Characteristics of good sample – Planning of sampling – sampling and non-sampling errors Unit 2 : Ethical Issues in Research Ethical principles: Harm to participants, Lack of informed constant, Invasion of privacy, Deception – Stakeholders in research: Public, Respondents, Clients, Researcher – Reasons for biased research – Code of ethics in research: For research practitioners, for user of research, for field investigator – Ethics and research process – Importance of ethics in research – Ethics and the issue of quality – The difficulties of ethical decision making Unit 3 : Hypothesis testing Hypothesis – Meaning – Functions of Hypothesis – Characteristics of Hypothesis – Types of Hypothesis – Errors in testing of Hypothesis – Test of Hypothesis – Probability – Theoretical probability distributions useful in testing of Hypothesis:					

	Normal distribution, Chi-square distribution, t-distribution, F- distribution – Examples of test of Hypothesis – Z test, t-test, Chi-square test: Goodness of fit, test of independence Unit 4 : Steps in Writing Report, Research Proposal and Methods for Preparing References Significance of report writing – Different steps in report writing: Logical analysis of subject matter, preparation of the final outline, preparation of rough draft, Rewriting and polishing of rough draft, Preparation the final bibliography, Writing the final draft – Citations and foot notes – Writing a research proposal: Concept of research proposal, questions of research, objective of study, testing of hypothesis, study design, measurement and research method, sampling, analysis of data, structure of report, problems and limitations, work schedule – Use of references – Different citation Style: America Psychological Association (APA) with examples – Modern Language Association (MLA) with examples
Course Content	એકમ 1 : સમષ્ટી, નમૂના પસંદગી અને તેની પદ્ધતિઓ સમષ્ટી અને નિદર્શ/નમૂનાનો અર્થ: ફાયદા અને ગેરફાયદા – નિદર્શન યોજનાના તબક્કા: સમષ્ટિના પ્રકાર, નિદર્શન એકમ, સ્ત્રોત યાદી, નમૂનાનું કદ, ખર્ચ, નિદર્શનની પ્રક્રિયા – નિદર્શન પદ્ધતિઓના પ્રકાર – સંભાવના નિદર્શન: સરળ યાદચ્છિક, વ્યવસ્થિત યાદચ્છિક, સ્તરીકૃત, ઝૂમખા, બહુ-તબક્કાવાર ક્લસ્ટર નિદર્શન – બિન-સંભાવના નિદર્શન: અનુકૂળતા મુજબ, નિર્ણયાત્મક, ક્વોટા (હિસ્સા), સ્નો બોલ નિદર્શન – સારા નિદર્શના લક્ષણો - નિદર્શનનું આયોજન – નિદર્શન અને બિન-નિદર્શન ભૂલો એકમ 2 : સંશોધનમાં નૈતિક સમસ્યાઓ નૈતિક સિદ્ધાંતો: સહભાગીઓને નુકસાન, ઉત્તરદાતાની સંમતિનો અભાવ, ગોપનીયતાનો ભંગ, છેતરપિંડી – સંશોધનના હિતધારકો/હિસેદારો: જનતા/નાગરિકો, ઉત્તરદાતાઓ, ગ્રાહકો, સંશોધકો – પક્ષપાતી સંશોધન માટેના કારણો – સંશોધન માટેની આચારસંહિતા: સંશોધનકર્તાઓ માટે, સંશોધનનો ઉપયોગ કરનારાઓ માટે, ક્ષેત્ર તપાસકર્તાઓ માટે – સંશોધન પ્રક્રિયા અને નૈતિકતા – સંશોધનમાં નૈતિકતાનું મહત્વ – નૈતિકતા અને ગુણવત્તાનો મુદ્દો – નૈતિક નિર્ણય લેવામાં આવતી મુશ્કેલીઓ એકમ 3 : પરિકલ્પના/ઉત્કલ્પના પરીક્ષણ પરિકલ્પના: પરિકલ્પનાનો અર્થ – પરિકલ્પનાના કાર્યો – પરિકલ્પનાના લક્ષણો – પરિકલ્પનાના પ્રકારો – પરિકલ્પના પરીક્ષણમાં ભૂલો – પરિકલ્પનાની પરીક્ષણ – સંભાવના – પરિકલ્પના પરીક્ષણમાં ઉપયોગી સૈદ્ધાંતિક વિતરણો: પ્રમાણ્ય વિતરણ, કાઈ-વર્ગ વિતરણ, t-વિતરણ, F-વિતરણ – પરિકલ્પના પરીક્ષણના ઉદાહરણો – Z પરીક્ષણ, t- પરીક્ષણ, કાઈ-વર્ગ પરીક્ષણ: યોગ્યતાની સુસંગતતા, સ્વતંત્રતાનું પરીક્ષણ એકમ 4 : અહેવાલ લેખનના તબક્કાઓ, સંશોધન પ્રસ્તાવ અને સંદર્ભ પદ્ધતિઓ અહેવાલ લેખનનું મહત્વ – અહેવાલ લેખનના વિવિધ તબક્કા: વિષયવસ્તુનું તાર્કિક વિશ્લેષણ, અંતિમ રૂપરેખા તૈયાર કરવી, કાચો મુસદ્દો તૈયાર કરવો, કાચા ડ્રાફ્ટનું પુન:લેખન અને શુદ્ધિકરણ, અંતિમ ગ્રંથસૂચિ તૈયાર કરવી, અંતિમ અહેવાલ લખવો– સંદર્ભ ટાંકો અને

	પાઠનોંધ – સંશોધન દરખાસ્ત લખવી: સંશોધન દરખાસ્તનો ખ્યાલ, સંશોધનના પ્રશ્નો, અભ્યાસના ઉદ્દેશ્યો, પરિકલ્પનાનું પરીક્ષણ, અભ્યાસની રૂપરેખા, માપન અને સંશોધન પદ્ધતિ, નિદર્શન, માહિતીનું વિશ્લેષણ, અહેવાલનું માળખું, સમસ્યાઓ અને મર્યાદાઓ, કાર્ય સમયપત્રક – સંદર્ભોનો ઉપયોગ – વિવિધ સાઈટેશન શૈલીઓ: American Psychological Association (APA) ઉદાહરણો સાથે – Modern Language Association (MLA) ઉદાહરણો સાથે						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
Reference Books	1. Ahuja Ram (2001), Research Methods; Rawat Publications, Jaipur. 2. Beri G.C. (2004), Marketing Research (3rd Ed.); Tata McGraw-Hill Publishing Company Ltd, New Delhi. 3. Bryman Alan (2012), Social Research Methods (4th Ed), Oxford University, Press, New York. 4. Bryman Alan; Bell Emma (2007), Business Research Methods (2nd Ed.); Oxford University, Press, New York. 5. Cauvery R & Sudha Nayak U.K. (2005), Research Methodology; S. Chand & Company Ltd., New Delhi. 6. Cooper Donald R; Schindler Pamela S. (2003), Business Research Methods (8th Ed.); Tata McGraw-Hill Publication, New Delhi. 7. Gopal K. Kanji (2006), 100 Statistical Tests, SAGE Publications India Private Limited, New Delhi 8. Kothari C.R. (2004), Research Methodology: Methods & Techniques (2nd Ed.); New Age International Pvt. Ltd, New Delhi 9. Kumar Ranjit (2008), Research Methodology - A Step by Step Guide For Beginners, Pearson Education, New Delhi 10. Murthy C (2013), Research Methodology, Vrinda Publications (p) LTD., Delhi 11. Narayanasamy N (2009), Participatory Rural Appraisal: Principles, Methods and Application, SAGR Publications India Pvt. Ltd, New Delhi 12. Panneerselvam R. (2010), Research Methodology (8th Ed.); Prentice-Hall of India Pvt. Ltd, New Delhi. 13. Popper, K.R. (1959), the Logic of Scientific Discovery, New York, NY: Basic Books. 14. Popper, K.R. (1972), Objective Knowledge, Oxford U.K.: Clarendon. 15. Sekaran Uma (2006), Research Methods for Business; Wiley India Pvt. Ltd, New Delhi. 16. Shajahan.S. (2006), Research Methods for Management, 3rd Ed.; Jaico Publishing House, Mumbai 17. Sharma K.R (2002), Research Methodology; National Publishing House, Jaipur. 18. Tripathi P.C. (2003), A Textbook of Research Methodology in social sciences (4th Ed.); Sultan Chand & Sons, New Delhi. 19. Uwe Flick (2017), Introducing Research Methodology (2nd Ed.), Sage Publications India Private Ltd., New Delhi. 20. William M.K. (2003), Research Methodology (2nd Ed.); Biztantra, New Delhi. 21. Zikmund William G. (2004), Business Research Method (7th Ed.); Thomson Asia Pvt. Ltd, Singapore.						

	22. દેસાઈ હરિભાઈ જી અને દેસાઈ કૃષ્ણકાંત જી) ૧૯૯૭ .(સંશોધન પદ્ધતિઓ અને પ્રવિધિઓ, ગુજરાત ગ્રંથ નિર્માણ બોર્ડ 23. શાહ એ.જી .અને દવે જગદીશ કે) ૨૦૦૭(, સમાજીક સંશોધન પદ્ધતિઓ, અનાડા બૂક ડીપો, અમદાવાદ 24. શુક્લ ગજેન્દ્ર બી અને નાયક આર કે) ૨૦૧૬ .(સંશોધન પદ્ધતિઓ, ન્યુ પોપ્યુલર પ્રકાશ, સુરત. 25. ઉંચાત ડી એ) ૨૦૧૨(, શિક્ષણ અને સામાજીક વિજ્ઞાનોમાં સંશોધનોનું પદ્ધતિશાસ્ત્ર, પારસ પ્રકાશન, રાજકોટ
Teaching Methodology	Lecture Method, Discussion Method, Seminar Method, ICT-based Teaching, Evaluation Methods
Evaluation Method	Internal Assessment: <u>50</u> Marks External Assessment: <u>50</u> Marks