



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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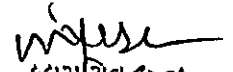
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-: પરિપત્ર :-

યુનિવર્સિટીના વિનયન વિદ્યાશાખા હેઠળના શૈક્ષણિક વિભાગોના વડાશ્રીઓ અને યુનિવર્સિટી સંલગ્ન કોલેજોનાં આચાર્યશ્રીઓને જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૬-૨૭ થી અમલમાં આવનાર NEP- 2020 અંતર્ગત બી.એ. ઓનર્સ અર્થશાસ્ત્ર વિષયનાં સેમેસ્ટર-૭ અને ૮ ના Honours (with OJT/without OJT) અને Honours with Research નાં અભ્યાસક્રમ અંગે અર્થશાસ્ત્ર વિષયની અભ્યાસ સમિતિની તા.૨૧/૫/૨૦૨૬ની સભાનાં ઠરાવ ક્રમાંક:૪ થી કરેલ ભલામણ સ્વીકારી વિનયન વિદ્યાશાખાની તા.૧૦/૬/૨૦૨૬ ની સભાનાં ઠરાવ ક્રમાંક:૧૮ થી કરેલ ભલામણને એકેડેમિક કાઉન્સિલની તા.૧૮/૦૬/૨૦૨૬ ની સભાનાં ઠરાવ ક્રમાંક: ૬૧ થી મંજૂર કરેલ છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

(ખિડાણ: ઉપર મુજબ)

ક્રમાંક : ઓથો./પરિપત્ર/સિલેબસ/૧૩૬૮૦/૨૦૨૬
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.

Structure of Program (Semester-wise)

Semester-7

Course Category	Course Code	Course Title	Marksheet Title in English	Level of Course	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
Major Paper-27		Micro Economics Paper-27			4	-	2	-	4	-	50	-	50	-	100	-
Major Paper-28		Macro Economics Paper-28			4	-	2	-	4	-	50	-	50	-	100	-
Major Paper-29		Quantitative Methods For Economics Paper-29			4	-	2	-	4	-	50	-	50	-	100	-
For those students who have not chosen OJT																
Major Paper-30		Industrial Economics Paper -30			4	-	2	-	4	-	50	-	50	-	100	-
OR																
Major Paper-31		Agricultural Economics (Major) Paper – 31			4	-	2	-	4	-	50	-	50	-	100	-
OR																
Major Paper-32		Economics Of Human Resources – (Major) Paper-32			4	-	2	-	4	-	50	-	50	-	100	-
OR																
Major Paper-33		Econometrics (Major) Paper – 33			4	-	2	-	4	-	50	-	50	-	100	-

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

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Bachelor of Arts (Economics) Semester-7 CREDIT: 4
(Major) Paper – 27- Micro Economics

Program Name	Bachelor of Arts (Economics)					
Semester	7					
NCrF Credit Level	6.0					
Course Type	Major					
Course Subtype	“Nil”					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Micro Economics Paper-27					
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 - Deriving the Demand Curve from the Law of Marginal Utility, Deriving the Demand Curve from the Equi-Marginal Utility - Indifference curve - Meaning, Characteristics and Limitations, Income Effect and substitution Effect, Hicks and Slutsky Theorem, Revealed Preference Theory, Revision of Demand Theory of Hicks Unit – 2 : Theory of production and costs - Cobb-Douglas, CES and input demand functions and their properties - Derivation of Short Run and Long Run supply curve - Classical model of the Firm Equilibrium - Isoquants – Characteristics – Iso Cost - Least Cost Combinations of Inputs Unit – 3 : Economics of 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						
Course Content	એકમ – 1 : માંગ વિશ્લેષણ - સીમાંત તુષ્ટિગુણ સિદ્ધાંત દ્વારા માંગરેખા, સમ-સીમાંત તુષ્ટિગુણના સિદ્ધાંત દ્વારા માંગરેખા - સમતૃપ્તિ વક્ર: અર્થ, લાક્ષણિકતાઓ અને મર્યાદાઓ, આવક અસર અને અવેજી અસર, હિક્સ અને સ્લટસ્કીના સિદ્ધાંતો, અભિવ્યક્તિ પસંદગી સિદ્ધાંત, હિક્સનો માંગ પરિવર્તનનો સિદ્ધાંત 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 - સાધનના ન્યૂનતમ ખર્ચ સંયોજન 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						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1							
CO2							
CO3							
CO4							
CO5							
CO6							

Program Name	Bachelor of Arts (Economics)
Semester	7
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 amd 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, યુનીવર્સીટી 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
SYLLABUS

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Bachelor of Arts (Economics) Semester-7 CREDIT: 4

Major Paper – 28 - Macro Economics

Name of Program	Bachelor of Arts (Economics)						
Program Abbreviation	B.A.						
Duration	Eight semesters (2 Semesters/year)						
Eligibility Criteria	12 th pass						
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						

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SYLLABUS

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Bachelor of Arts (Economics) Semester-7 CREDIT: 4

Major Paper – 28 - Macro Economics

Program Name	Bachelor of Arts (Economics)					
Semester	7 (Seven)					
NCrF Credit Level	6.0					
Course Type	Major					
Course Subtype	“Nil”					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Macro Economics Paper- 28					
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 પદ્ધતિ - રાષ્ટ્રીય આવકનો ખ્યાલ, મહત્વ, ગણતરીની પદ્ધતિ અને મર્યાદા - આવક ચક્રીય પ્રવાહ –દ્વિ ક્ષેત્રીય, ત્રી ક્ષેત્રીય અને ચાર ક્ષેત્રીય અર્થતંત્ર - રાષ્ટ્રીય આવક અને આર્થિક કલ્યાણ - સામાજિક હિસાબી પદ્ધતિ –ખ્યાલ અને મહત્વ - ઘરગથ્થુ, પેઢી, સરકાર, વિત્તીય બજાર એકમ -2 કુગાવો, મંદી અને મંદીયુક્ત કુગાવો - કુગાવો, અર્થ, માંગસર્જિત કુગાવો અને ખર્ચપ્રેરિત કુગાવો, કુગાવાજન્ય ખાધ અને મંદીજન્ય ખાધ, કુગાવા નિયંત્રણ - ફીલીપ્સ વક્ર પરિકલ્પના, ટૂંકા ગાળાની-લાંબાગાળાની ફિલિપ્સરેખા, બેરોજગારીના કુદરતી દરની પરિકલ્પના - મંદીયુક્ત કુગાવો –અર્થ, કુગાવાના કારણો, ઉપાયો - મંદીયુક્ત કુગાવા અંગે ફીડમેન – ફેલ્ડસનું મોડેલ એકમ -3 નાણાંની માંગ અને નાણાનો પૂરવઠો - નાણાંની માંગ, અર્થ કેઇન્સ અને કેઇન્સવાદી અભિગમ-ફીડમેન, બોમલ, અને ટોબીન - નાણાંનો પૂરવઠો –અર્થ નાણાંના પુરવઠા અંગે રીઝર્વ બેંક ઓફ ઇન્ડિયાનો અભિગમ, નાણાંના પુરવઠાને અસર કરતા પરિબળો, નાણાંના પુરવઠાનું નિયંત્રણ - ઉચ્ચસત્તાધીશ નાણું અને નાણાંગુણક એકમ-4 વ્યાજદર અને નીતિઓ - વ્યાજદર-ખ્યાલ, વ્યાજદરનો તફાવત - ધિરાણભંડોળનો સિદ્ધાંત, વિકસેલ અને કેઇન્સ - સમગ્રલક્ષી આર્થિક નીતિ –અર્થ, મહત્વ, હેતુઓ, સાધનો અને મર્યાદાઓ						
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
SYLLABUS EFFECTIVE FROM ACADAMIC YEAR 2026-27

Bachelor of Arts (Economics) Semester – 7 Credit-4

Major Paper-29- Quantitative Methods for Economics

Program Name	Bachelor of Arts (Economics)					
Semester	7 (Seven)					
NCrF Credit Level	6.0					
Course Type	Major					
Course Subtype	Nil					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Quantitative Methods for Economics Paper-29					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Objectives of the Course	The main objective of Quantitative Economics is to familiarize students with the fundamental and practical concepts of Mathematics and Statistics used in the study of Economics. Through this course, students develop a numerical and analytical approach that enables them to understand economic problems in a scientific and logical manner.					
Course Outcomes	CO-1 : Understand the basic mathematical and statistical concepts of Quantitative Economics and apply them in Economics. CO-2 : Solve different types of equations and function and use them in economic analysis CO-3 : Collect, classify, tabulate and present data using diagrams and graphs. CO-4 : Apply sampling methods and statistical tools in research.					
Course Content	Unit 1 : Introduction to Statistics & Measures of Central Tendency Statistics: Definitions, Data, Frequency Distribution, Measures of Central Tendency: Mean Median, Mode, Their Merits and Demerits. Unit 2 : Dispersion Range; Mean Deviation, Variance, Standard Deviation, Properties and their merits and Demerits – Coefficient of Variation its uses. Unit 3 : Equations – Set Theory and Limit Rules. Equations – Linear, Quadratic and Simultaneous-Their applications on Economics. Set theory-Definition-type- Applications in Economics.					

	Unit 4 : Functions Various types of functions, functions used in Economic Linear and quadratic functions-Graph, interpretation of parameters-application- Homogeneous function-application.						
Course Content	એકમ-૧: આંકડાશાસ્ત્રનો પરિચય અને કેન્દ્રીયવલણના માપદંડ આંકડાશાસ્ત્રની વ્યાખ્યા, મહત્વ, કાર્યો અને મર્યાદાઓ, માહિતિ વર્ગીકરણ- પ્રકાર, આવૃત્તિ વિતરણ, કેન્દ્રીયવલણના માપદંડ: મધ્યક, માધ્યસ્થ, બહુલક- તેના ગુણદોષો એકમ-૨: પ્રસરમાન પ્રસારમાન- વિસ્તાર અને તેના લાભાલાભ, ચતુર્થક વિચલન- ગુણધર્મો- ગુણદોષો, સરેરાશ વિચલન, વિચરણ તેના લાભાલાભ, પ્રમાણિત વિચલન-ગુણધર્મો અને ગુણદોષો – ચલનાંક અને તેનો ઉપયોગો. એકમ-૩: સમીકરણો – ગણ સિધ્ધાંત સમીકરણની વ્યાખ્યા, સમીકરણના પ્રકારો – સુરેખ, દ્વિઘાત અને યુગપત સમીકરણોના નિયમો અને તેનો અર્થશાસ્ત્રમાં ઉપયોગ, ગણ સિધ્ધાંત - વ્યાખ્યા – પ્રકાર અને તેનો અર્થશાસ્ત્રમાં ઉપયોગ. એકમ-૪: વિધેય એક ચલિય અને બહુવિધ વિધેય, વિધેયનો ખ્યાલ, પ્રકાર, સુરેખ વિધેય, તેનો અર્થશાસ્ત્રમાં ઉપયોગ, સમપરિમાણ વિધેય, દ્વિઘાત વિધેય, ત્રિઘાત વિધેય અને ઘાતાંકીય વિધેયનો ખ્યાલ અને અર્થશાસ્ત્રમાં તેનો ઉપયોગ.						
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
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, NewDelhi 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	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

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

Bachelor of Arts (Economics)

SEMESTER-7 Credit-4

MAJOR - PAPER – 30- INDUSTRIAL ECONOMICS

Program Name	Bachelor of Arts (Economics)						
Semester	Semester-7						
NCrF Credit Level	4						
Course Type	Major						
Course Subtype	Nil						
Subject Type	Discipline Specific						
Course Code							
Course Level	400-499						
Course Title	Industrial Economics Paper-30						
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 - 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 , features, advantages, disadvantages - Startup and unicorn firms: definition, features, advantages-disadvantage, difference between both Unit 2: Market Structure and Competitive Conditions						

	- 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 Behavior, Strategy Formation and Principles - Goals and Principles of the Firm: Bomal, Maris, - 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, - Means, Use and Benefit Unit 4: Industrial Performance and Analysis - 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
Course Content (ગુજરાતી આવૃત્તિ)	એકમ -1 ઔદ્યોગિક અર્થશાસ્ત્ર - પરિચય - ઔદ્યોગિક અર્થશાસ્ત્ર : અર્થ, સ્વરૂપ અને કાર્યક્ષેત્ર - પેઢી, ઉદ્યોગ અને બજાર વચ્ચેનો સંબંધ - પેઢીના પ્રકારો : વ્યક્તિગત માલિકીની પેઢી, ભાગીદારી પેઢી, કોર્પોરેટ પેઢી, બહુરાષ્ટ્રીય પેઢી – અર્થ, લાક્ષણિકતાઓ, લાભ-ગેરલાભ - સ્ટાર્ટઅપ અને યુનિકોર્ન પેઢીઓ : વ્યાખ્યા, લક્ષણો, લાભ-ગેરલાભ, બંને વચ્ચેનો તફાવત એકમ -2 બજાર માળખા અને સ્પર્ધાત્મક પરિસ્થિતિઓ - બજાર માળખાનો અર્થ અને મુખ્ય પ્રકારો (પૂર્ણ હરીફાઈ, ઈજારો, ઈજારયુક્ત હરીફાઈ, અલ્પ હસ્તક ઈજારો- અર્થ અને લક્ષણો) - વેચનારનું કેન્દ્રીકરણ - પ્રવેશ અવરોધો - વસ્તુ ભિન્નતા: અર્થ, પ્રકાર અને મહત્વ - નેટવર્ક ઇફેક્ટ : અર્થ, પ્રકાર અને પ્લેટફોર્મ માર્કેટ : અર્થ, લક્ષણો, સ્પર્ધાત્મક અસરો - મર્જર : અર્થ, પ્રકાર, લાભ-ગેરલાભ એકમ -3 પેઢીનું વર્તન, વ્યૂહ રચના અને સિદ્ધાંતો - પેઢીના ધ્યેયો અને સિદ્ધાંતો : બોમલ, મારીસ, - 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, - અર્થ, ઉપયોગ અને લાભ-ગેરલાભ એકમ -4 ઔદ્યોગિક કામગીરી અને વિશ્લેષણ • 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	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	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

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Bachelor of Arts (Economics) Semester-7 CREDIT: 4

(Major) Paper – 31 Agricultural Economics

Name of Program	Bachelor of Arts (Economics)						
Program Abbreviation	B.A						
Duration	(2 Semesters/year)						
Eligibility Criteria	12 th pass						
Pre-requisite							
Medium of Instruction	English/Gujarati						
Objective of Program	3. 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 4. 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

Program Name	Bachelor of Arts					
Semester	VII					
NCrF Credit Level	6.0					
Course Type	Major					
Course Subtype	Entrepreneurship / Employability / Skill Development					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Agricultural Economics Paper-31 (Agricultural Economics and Resources Use)					
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-1 • Transformation of Traditional Agriculture: The Schultzean Theory • Mellor's Theory of Agriculture Development • Boserup's Theory of Agriculture Development • Leibensten's Critical Minimum effort Thesis					

	Unit – 3 : Models of Agricultural Development-2 • Nelson’s Low Level Equilibrium Trap Theory • Lewis Model of Economic Development • Ranis-Fei Model of Economic Development • Jorgenson’s Model The Development of A Dual Economy 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 • 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 આંકડા: વ્યાપ, સ્ત્રોત અને વિશ્વસનીયતા એકમ – ૨ : કૃષિ વિકાસના સિદ્ધાંતો-૧ • પરંપરાગત ખેતીનું પરિવર્તન: શુલ્કઝનો સિદ્ધાંત • કૃષિ વિકાસ અંગેનો મેલરનો સિદ્ધાંત • કૃષિ વિકાસ અંગે બોઝરપનો સિદ્ધાંત • લેબેન્સ્ટાઈનનો ‘નિર્ણાયક લઘુત્તમ પ્રયાસ’નો સિદ્ધાંત એકમ – ૩ : કૃષિ વિકાસના સિદ્ધાંતો-૨ • આર્થિક વિકાસનું લુઈસ મોડેલ • રેનીસ-ફ્રેઈનું આર્થિક વિકાસનું મોડેલ • નેલ્સનનો નિમ્ન સ્તરની સમતુલા માટે જાળનો સિદ્ધાંત • દ્વિ-અર્થતંત્રના વિકાસ અંગે જોર્ગન્સનનું મોડેલ એકમ – ૪ : ઉત્પાદન અર્થશાસ્ત્રના વિષયો: ખર્ચ અને ખેત સંચાલન • પરિચય • સાધન વપરાશની કાર્યક્ષમતા • તકનીકી પરિવર્તન • જોખમ અને અનિશ્ચિતતા

	• દ્વૈતવાદ • ખર્ચનો ખ્યાલ • ખેત સંચાલન • કોર્પોરેટ ખેતી • કરાર આધારિત ખેતી ખેડાણ ઘટક અને ઉત્પાદકતા વચ્ચેનો ચર્ચા						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
	CO5						
	CO6						
Reference Books	1. Alagh, Y. K. (2004). <i>Globalisation and agriculture crisis in India</i>. Deep & Deep Publications Pvt. Ltd. 2. Baradhan, P. (1984). <i>Land labour and rural poverty</i>. Oxford University Press. 3. Bhall, G. S., & Singh, Gurmail. (2001). <i>Indian agriculture: Four decades of development</i>. Sage Publications. 4. Bhalla, G. S. (1994). <i>Economic liberalization and Indian agriculture</i>. Institute for Studies in Industrial Development. 5. Bhardwaj, K. (1974). <i>Production condition in Indian agriculture</i>. Cambridge University Press. 6. Chandha, G. K., & Sharma, A. N. (1997). <i>Growth, employment and poverty: Change and continuity in rural India</i>. Vikas Publishing House. 7. Chhina, S. S. (2023). <i>Agricultural economy of India – Current issues and challenges</i> (1st ed.). Regal Publications. 8. Das, A. K., Goswami, B., & Bezbaruah, M. P. (2022). <i>Agriculture factor markets and India's small farmers</i>. Sage Publications. 9. Dantwala, M. L., et al. (1991). <i>Indian agriculture development since independence</i>. Oxford & IBH. 10. Dawn, B. D. (1988). <i>Irrigation in India's agriculture development</i>. Sage Publications. 11. ડાભી, મ. (Dabhi, M.) (2009). <i>સહભાગી સિંચાઈ વ્યવસ્થાપન: 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, વા. એન. (2015–16). <i>કૃષિ અર્થશાસ્ત્ર – 1 (પાંચમી આવૃત્તિ)</i>. 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 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, વા. એન., & જોશી, આર. સી. (2015). <i>ભારતીય કૃષિના પ્રશ્નો અને નીતિ</i> (પ્રથમ આવૃત્તિ). પોપ્યુલર પબ્લિકેશન.
Teaching Methodology	Lecture, Assignment, Discussion, ICT-Based Teaching.
Evaluation Method	Internal Assessment: 50 Marks External Assessment: 50 Marks

PROGRAM TITLE
જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27
Bachelor of Arts (Economics) Semester-7 CREDIT: 4

(MAJOR) Paper- 32 Economics of Human Resources

Name of Program	Bachelor of Arts (Economics)							
Program Abbreviation	B. A. (Economics)							
Duration	Eight semesters (2 Semesters/year)							
Eligibility Criteria	12 th pass							
Pre-requisite	(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	Bachelor of Arts (Economics)							
Semester	Semester - 7							
NCrF Credit Level	6.0							
Course Type	Major							
Course Subtype	Employability							
Subject Type	Discipline Specific							
Course Code								
Course Level	400-499							
Course Title	Economics of Human Resources Paper- 32							
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		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 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 - 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 consistency, 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	એકમ-1: માનવ મૂડી અને માનવ સંસાધનનો ખ્યાલ • માનવ મૂડી અને માનવ સંસાધનનો 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 અસમાનતા

	આંક (GII), બહુઆયામી ગરીબાઈ આંક (MPI), સુખાકારી આંક (Happiness Index HI) - સંયુક્ત રાષ્ટ્રના ટકાઉ વિકાસના ધ્યેયો (SDGs) અને શિક્ષણ. એકમ -2: શિક્ષણ અને આર્થિક વિકાસ - વિકાસના એન્જિન તરીકે શિક્ષણ – શિક્ષણમાં રોકાણ તરીકે શ્રમ ઉત્પાદકતા અને ઉત્પાદનમાં વધારો. - વિકાસ અને શિક્ષણના સિદ્ધાંતો: મુખ્ય વિકાસ મોડેલોમાં માનવ મૂડીની ભૂમિકાનું નિરીક્ષણ, માનવ મૂડી સાથે સંબંધિત નવપ્રશિષ્ટ મોડેલો (દા.ત., સોલો-સ્વાન મોડેલ), અંતરજાત/નવપ્રશિષ્ટ સિદ્ધાંતો (લુકાસ મોડેલ). - બિન-આર્થિક લાભો (બાહ્યતા): શિક્ષણના સામાજિક વળતર (દા.ત., સુધારેલ આરોગ્ય, અપરાધ દરમાં ઘટાડો, સારું શાસન, સામાજિક સુસંગતતા અને લોકશાહી ભાગીદારી) જે વ્યાપક વિકાસમાં યોગદાન આપે છે. એકમ -3: માનવ સંસાધન અને વિકાસ - માનવ વિકાસના નિર્દેશકો: શૈક્ષણિક નિર્દેશકો - માનવ સંસાધન અને માનવશક્તિનું મૂલ્યાંકન તેમજ પૂર્વાનુમાન - તકનીકીઓ અને પદ્ધતિઓ. - બુદ્ધિધન ધોવાણ: ખ્યાલ અને વર્ગીકરણનું કદ - બુદ્ધિધન ધોવાણના આકર્ષણ (Pull) અને અનાઆકર્ષણ (Push) પરિબલો. એકમ -4: શૈક્ષણિક વિત્તવ્યવસ્થા અને પડકારો - શૈક્ષણિક વિત્તવ્યવસ્થાના 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

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

Bachelor of Arts (Economics) Semester-7 CREDIT: 4
(Major) Paper – 33 Econometrics

Name of Program	Bachelor of Arts (Economics)						
Program Abbreviation	B.A.						
Duration	Eight semesters (2 Semesters/year)						
Eligibility Criteria	12 th pass						
Pre-requisite							
Medium of Instruction	Gujarati & English						
Objective of Program	5. 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 6. 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

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

Bachelor of Arts (Economics) Semester-7 CREDIT: 4
(Major) Paper – 33 Econometrics

Program Name	Bachelor of Arts (Economics)					
Semester	7 (Seven)					
NCrF Credit Level	6.0					
Course Type	Major-20(D)					
Course Subtype	Nil					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Econometrics Paper-33					
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 Examples 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					

Course Content	એકમ 1: સંભાવનાનો સિદ્ધાંત-1 વ્યાખ્યા - ગણની પદ્ધતિઓ - શાન્ત અને અનંત ગણ - ગણોની સમાનતા - ખાલી ગણ - ઉપગણ- સાર્વત્રીક 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	<table><tr><td></td><td>PSO1</td><td>PSO2</td><td>PSO3</td><td>PSO4</td><td>PSO5</td><td>PSO6</td></tr><tr><td>CO1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO2</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	CO1							CO2							CO3						
	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, 7 th 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, 2 nd Ed. 18. Nagar A L (1997): Basic Statistics, Oxford University Press, New Delhi, 15 th 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, 7 th 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

Structure of Program (Semester-wise)

Semester-8

Course Category	Course Code	Course Title	Marksheet Title in English	Level of Course	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
Major Paper-34		Micro Economics Paper-34			4	-	2	-	4	-	50	-	50	-	100	-
Major Paper-35		Macro Economics Paper-35			4	-	2	-	4	-	50	-	50	-	100	-
Major Paper-36		Quantitative Methods For Economics Paper-36			4	-	2	-	4	-	50	-	50	-	100	-
For those students who have not chosen OJT																
Major Paper-37		Industrial Economics Paper - 37			4	-	2	-	4	-	50	-	50	-	100	-
OR																
Major Paper-38		Agricultural Economics (Major) Paper – 38			4	-	2	-	4	-	50	-	50	-	100	-
OR																
Major Paper-39		Economics Of Human Resources – (Major) Paper-39			4	-	2	-	4	-	50	-	50	-	100	-
OR																
Major Paper-40		Econometrics (Major) Paper – 40			4	-	2	-	4	-	50	-	50	-	100	-

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

Bachelor of Arts (Economics) Semester-8 CREDIT: 4

(Major) Paper 34 Micro Economics

Program Name	Bachelor of Arts (Economics)						
Semester	8 (Eight)						
NCrF Credit Level	8						
Course Type	Major						
Course Subtype	Nil						
Subject Type	Discipline Specific						
Course Code							
Course Level	400-499						
Course Title	Micro Economics Paper-34						
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						

Course Content	એકમ – 1 : અલ્પ-હસ્તક ઇજારા હેઠળ કિંમત અને ઉત્પાદનનું નિર્ધારણ: - અલ્પ-હસ્તક ઇજારા હેઠળ કિંમત અને ઉત્પાદનનું નિર્ધારણ: કાર્ટેલ, ખાંચાવાળી માંગ વક્રનો સિદ્ધાંત, કિંમત નેતૃત્વના મોડેલો, રમત સિદ્ધાંત: નેશની સમતુલા, કેદીની દ્વિધા એકમ – 2 : દ્વિહસ્તક ઇજારા હેઠળ કિંમત અને ઉત્પાદનનું નિર્ધારણ - દ્વિ-હસ્તક ઇજારા હેઠળ કિંમત અને ઉત્પાદન નિર્ધારણ: ફ્લોટ, બર્ટ્રાન્ડ, એજવર્થ, ચેમ્બરલિન, સ્ટેકલબર્ગ અને ચેમ્બરલીન 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 ફિક્સડ 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 Delh - 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. - Henderson, J.M and R.E.Quandt (1980), Micro Economic Theory: A Mathematical Approach, McGraw Hill, New Delhi. - Hirshleifer, J amd A Glazer. (1997), Price Theory and Aplications, Prentice Hall of India, New Delhi - 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) Weinturb,E.R.(1974),General Equilibrium Theory, Macmillan, London.
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

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

Bachelor of Arts (Economics) Semester-8 CREDIT: 4

(Major) Paper – 35 Macro Economics

Name of Program	Bachelor of Arts (Economics)						
Program Abbreviation	B.A.						
Duration	Eight semesters (2 Semesters/year)						
Eligibility Criteria	12 th pass						
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**

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

**Bachelor of Arts (Economics) Semester-8 CREDIT: 4
(Major) Paper – 35 Macro Economics**

Program Name	Bachelor of Arts (Economics)					
Semester	8 (Eight)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Nil					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Macro Economics paper-35					
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 વપરાશ વિધેય, મૂડીરોકાણ વિધેય • કેઈન્સનો વપરાશ વિધેયનો નિયમ, વપરાશ વિધેયને અસર કરતા પરિબળો, વપરાશીભર્ય વધારવાના ઉપાયો • સાપેક્ષ આવક પરિકલ્પના, નિરપેક્ષ આવક પરિકલ્પના, જીવનચક્ર પરિકલ્પના, કાયમી આવકની પરિકલ્પના • મૂડીરોકાણ વિધેય- અર્થ, પ્રકાર, રોકાણ માટેના ચાલકબળ પરિબળો • મૂડીની સીમાંત કાર્યક્ષમતા અને વ્યાજદર, મૂડીની સીમાંત કાર્યક્ષમતાને અસર કરતા પરિબળો એકમ -2 વ્યાપારચક્ર • વ્યાપારચક્રનો અર્થ લક્ષણો, તબક્કાઓ અને વ્યાપારચક્રનું નિયંત્રણ • હાયેક સિક્કાંત, હિક્સ સિક્કાંત, કોબ-વેબનો વ્યાપારચક્રનો સિક્કાંત • વાસ્તવિક વ્યાપારચક્રનો સિક્કાંત એકમ -3 AD/ AS અને IS/LM મોડેલ • સામાન્ય સમતુલા મોડેલ, IS/LM મોડેલ, IS/LM મોડેલનું વિસ્તરણ • આવક નિર્ધારણ અંગે પ્રશિષ્ટ અને કેઈન્સવાદી અભિગમ, AD/ AS મોડેલ • AD/ AS મોડેલ અને નાણાંકીય અને રાજકોષીયનીતિની સાપેક્ષ અસરકારકતા એકમ -4 આધુનિક સમગ્રલક્ષી અર્થશાસ્ત્ર • અનુકૂળનશીલ અપેક્ષા અને તાર્કિક અપેક્ષાનો સિક્કાંત • પુરવઠા બાજુનું અર્થશાસ્ત્ર • નાણાંવાદ વિરુદ્ધ કેઈન્સવાદ • નૂતન કેઈન્સવાદી અર્થશાસ્ત્ર						
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 (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
SYLLABUS EFFECTIVE FROM ACADAMIC YEAR 2026-27

Bachelor of Arts (Economics) Semester – 8 Credit-4

Major Paper-36 Quantitative Methods for Economics

Program Name	Bachelor of Arts (Economics)					
Semester	8 (Eight)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Skill Development					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Quantitative Methods for Economics Paper - 36					
Credit	Theory:	4	Practical:	0	Total:	4
Effective Form	Academic Year: 2026-27					
Objectives of the Course	The primary objective of Quantitative Methods – 2 is to provide students with advanced quantitative tools used in economic analysis. The course integrates mathematical and statistical techniques to enable students to analyse economic relationships scientifically and logically.					
Course Outcomes	CO-1. Apply concepts of limits, differentiation, and integration in solving economic problems. CO-2. Use matrices and determinants to solve systems of linear equations. CO-3. Compute and interpret measures of central tendency and dispersion. CO-4. Measure and interpret correlation and apply simple linear regression for economic analysis.					
Course Content	Unit 1 : Correlation and Regression Definition – Types of Correlation, Scatter diagram – Pearson’s product moment formula for correlation coefficient – its properties. Spearmen Rank Correlation, Linear Regression – estimation of parameters – Interpretation Unit 2 : Index Numbers & Theory of Probability Index Numbers – Definition, meaning, uses; Laspeyre’s, Paasche’s and Fisher’s Index numbers; Construction of cost of living index numbers Concept of probability – Theorem on total probability, Addition and Multiplication Theorems Mathematical Expectation Unit 3 : Limit of Function and Differential calculus Limit – rules – application in Economics					

	Derivative of a function: definition; rules, Interpretations. Applications in Economics – Marginal functions and Elasticity, Relationship among AR, MR and Elasticity of Demand. Unit 4 : Matrices and Determinants Matrix- Definition, various types of matrices, applications. Determinants- definitions, Rules, Properties application, Cramer’s Rule, Inverses of a Matrix and solution of simultaneous Equations.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3						
	CO4						
Reference Books							
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						

Major Paper-36 Quantitative Methods for Economics

Program Name	Bachelor of Arts (Economics)					
Semester	8 (Eight)					
NCrF Credit Level	6					
Course Type	Major					
Course Subtype	Skill Development					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Quantitative Methods for Economics Paper-36					
Credit	Theory:	Theory:	Theory:	Theory:	Theory:	Theory:
Effective Form	Academic Year: 2026-27					
Objective of the Course	પરિમાણાત્મક અર્થશાસ્ત્ર – 2 અભ્યાસક્રમનો મુખ્ય હેતુ વિદ્યાર્થીઓને અર્થશાસ્ત્રીય વિશ્લેષણ માટે જરૂરી ઉચ્ચ ગણિતીય અને આંકડાશાસ્ત્રીય સાધનો સાથે પરિચિત કરાવવાનો છે. આ કોર્સ દ્વારા વિદ્યાર્થીઓમાં વૈજ્ઞાનિક, તર્કસંગત અને વિશ્લેષણાત્મક દૃષ્ટિકોણ વિકસાવવામાં આવે છે જેથી તેઓ આર્થિક પરિસ્થિતિઓનું પરિમાણાત્મક મૂલ્યાંકન કરી શકે.					
Course Outcomes	CO-1. લક્ષ્ય, વિકલન અને સંકલનના ખ્યાલોનો ઉપયોગ કરીને આર્થિક પ્રશ્નો ઉકેલી શકશે. CO-2. શ્રેણિક અને નિશ્ચાયકનો ઉપયોગ કરીને સુરેખ સમીકરણો ઉકેલી શકશે. CO-3. કેન્દ્રીય વલણ અને પ્રસરણના વિવિધ માપોની ગણતરી અને અર્થઘટન કરી શકશે. CO-4. સહસંબંધ અને સુરેખ નિયતસંબંધ દ્વારા ચલોના સંબંધનું માપન અને વિશ્લેષણ કરી શકશે.					
Course Content	એકમ-૧: સહસંબંધ અને નિયત સંબંધ સહસંબંધની વ્યાખ્યા – તેના પ્રકાર, વિકર્ણ આકૃતિ, કાર્લ પીયર્સનની ગુણનપ્રધાતની રીત-તેના ગુણધર્મો, સ્પીયરમેનનો ક્રમાંક સહસંબંધ સુરેખ નિયત સંબંધ- તેની ધારણાઓ, અર્થઘટન અને અર્થશાસ્ત્રમાં ઉપયોગ એકમ-૨: સૂચકાંક અને સંભાવના સૂચકાંકનો અર્થ, વ્યાખ્યાઓ અને ઉપયોગો- લાસ્પેયર, પાશે અને ફિશરનો સૂચકાંક, જીવનનિર્વાહનો સૂચકાંક					

	સંભાવનાનો ખ્યાલ- કુલ સંભાવના પ્રમેય, સરવાળા અને ગુણાકારનો પ્રમેય, ગાણિતિક અપેક્ષાઓ એકમ-૩: લક્ષ અને વિકલન લક્ષ – તેના નિયમો, અર્થશાસ્ત્રમાં ઉપયોગ વિધેયનું વિકલન- વ્યાખ્યા, નિયમો અને અર્થઘટન- અર્થશાસ્ત્રમાં ઉપયોગ મૂલ્યસાપેક્ષતા, સરેરાશ આવક, સીમાંત આવક અને માંગની મૂલ્યસાપેક્ષતા વચ્ચેનો સંબંધ એકમ-૪: શ્રેણિક અને નિશ્ચાયક શ્રેણિકનો અર્થ અને પ્રકાર, અર્થશાસ્ત્રમાં શ્રેણિકનો ઉપયોગ નિશ્ચાયક: વ્યાખ્યા, નિયમો, ગુણધર્મો અને અર્થશાસ્ત્રમાં ઉપયોગ- પરિશ્રેણિક અને યુગપ્ત સમીકરણ.							
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	CO1							
	CO2							
	CO3							
	CO4							
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	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

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

Bachelor of Arts (Economics) Semester – 8 Credit-4
Major Paper 37 - INDUSTRIAL ECONOMICS

Program Name	Bachelor of Arts (Economics)						
Semester	Semester-8						
NCrF Credit Level	6						
Course Type	Major						
Course Subtype	Nil						
Subject Type	Discipline Specific						
Course Code	Major						
Course Level	400-499						
Course Title	Industrial Economics Paper-37						
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 • Industry and Economic Development: Meaning and Relationship between Bot • New Industrial Policy 1991: Meaning, Objectives, Features and Role in Economic Developme • 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 - 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 - 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 - 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
	એકમ -1 ભારતમાં ઔદ્યોગિક વિકાસ અને ઔદ્યોગિક નીતિ - 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 એકમ -2 ઔદ્યોગિક નાણાકીય વ્યવસ્થા - મુખ્ય ઔદ્યોગિક નાણાકીય સંસ્થાઓ : IFCI, IDBI, SIDBI, ICICI - દરેકનું કાર્યક્ષેત્ર અને ભૂમિકા - વિદેશી સીધું 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

	એકમ -3 પસંદગીના ઉદ્યોગો • 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) એકમ -4 MSME, SEZ અને ઉદ્યોગોની નવી દિશા • 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 કોરીડોરના 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

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

Bachelor of Arts (Economics) Semester-8 CREDIT: 4

(Minor) Paper – 38 Agricultural Economics

Name of Program	Bachelor of Arts (Economics)						
Program Abbreviation	B.A						
Duration	Eight semesters (2 Semesters/year)						
Eligibility Criteria	12 th pass						
Pre-requisite							
Medium of Instruction	English/Gujarati						
Objective of Program	3. 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 4. 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

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

Bachelor of Arts (Economics) Semester-8 CREDIT: 4
(Major) Paper – 38 Agricultural Economics

Program Name	Bachelor of Arts					
Semester	VIII					
NCrF Credit Level	6.0					
Course Type	Major					
Course Subtype	Nil					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Agricultural Economics 38 (Problems of Indian Agriculture and Policy)					
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 • 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 Bharat • 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 (માટી/ભૂમિ સંરક્ષણ સંદર્ભે) • આર્થિક વિકાસ અને કૃષિના ઘટતા જતા મહત્વનો ખ્યાલ • કૃષિ આધુનિકીકરણની સમસ્યાઓ • કૃષિ વિરુદ્ધ ઔદ્યોગિક વિકાસ • વાવેતર હેઠળનો વિસ્તાર અને જમીન વપરાશ તરાહ • પાક તરાહ, ખાદ્ય અને બિન-ખાદ્ય પાકો હેઠળનો વિસ્તાર • ભારતમાં જમીનધારણ અને જમીનધારણ તરાહ

	એકમ ૨ – ખેત નિપજકો, ખેત ધિરાણ અને બજાર • સિંચાઈ • જળ સંસાધનો • વધુ ઉપજ આપતી જાતો (HYV - બિયારણ) • ખાતર • કૃષિ ધિરાણ • ગ્રામીણ દેવાદારીની સમસ્યાઓ • કૃષિ વીમો • ભારતમાં કૃષિ વેચાણવ્યવસ્થા અને વખાર/કોઠાર વ્યવસ્થા (વેરહાઉસિંગ) • બજારભાવ (એગમાર્કેટ) એકમ ૩ – ખાદ્ય સમસ્યા અને હરિયાણી ક્રાંતિ • ભારતમાં ખાદ્ય સુરક્ષા • ભારતીય આહારની વિશેષતાઓ • આઝાદી પછીની અન્ન સમસ્યાઓ • અન્ન સમસ્યા ઉકેલવાના ઉપાયો • ખાદ્ય નીતિ, કાયદો અને સબસિડી • જાહેર વિતરણ વ્યવસ્થા (PDS) • લઘુત્તમ ટેકાના ભાવ (MSP) • ખરીદ કિંમત (PP) • વિતરણ કિંમત (IP) • હરિયાણી ક્રાંતિ એકમ ૪ – જમીન સુધારણા અને કૃષિ કરવેરા અને વ્યાપારની શરતો • ભારતમાં જમીન સુધારણા • ભૂદાન અને ગ્રામદાન • જમીન મહેસૂલ પ્રથા અને જમીન સુધારણાના ઉદ્દેશ્યો • જમીન સુધારણા નીતિનું મૂલ્યાંકન – સુધારણા માટેના સૂચનો • ભારત અને ગુજરાતના કૃષિ-આબોહવાકીય ક્ષેત્રો • કૃષિ કરવેરા- ચર્ચા અને વિવાદો • કૃષિ અને બિન-કૃષિ ક્ષેત્રો વચ્ચે વ્યાપારની શરતો																																																	
Mapping between Cos and PSOs	<table><tr><td></td><td>PSO1</td><td>PSO2</td><td>PSO3</td><td>PSO4</td><td>PSO5</td><td>PSO6</td></tr><tr><td>CO1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO2</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO3</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO4</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CO6</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	CO1							CO2							CO3							CO4							CO5							CO6						
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6																																												
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Reference Books	1. Alagh, Y. K. (2004). <i>Globalisation and agriculture crisis in India</i>. Deep & Deep Publications Pvt. Ltd. 2. Baradhan, P. (1984). <i>Land labour and rural poverty</i>. Oxford University Press.																																																	

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Teaching Methodology	Lecture, Assignment, Discussion, ICT-Based Teaching.
Evaluation Method	Internal Assessment: 50 Marks External Assessment: 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

Bachelor of Arts (Economics) Semester-8 CREDIT: 4

Major Paper –39 Economics of Human Resources

Name of Program	Bachelor of Arts (Economics)							
Program Abbreviation	B.A							
Duration	Eight semesters (2 Semesters/year)							
Eligibility Criteria	12 th pass							
Pre-requisite	(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

Program Name	Bachelor of Arts (Economics)								
Semester	Semester - VIII								
NCrF Credit Level	6.0								
Course Type	Major								
Course Subtype	Employability								
Subject Type	Discipline Specific								
Course Code	HR: 39								
Course Level	400-499								
Course Title	Economics of Human Resources Paper-39								
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 - સ્વાસ્થ્યના વ્યાપક નિર્દેશકો - 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 નું જોડાણ - 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
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	Savedoff, W. (2004). Kenneth Arrow and the birth of health economics. Bulletin of the World Health Organization, 82, 139–140. https://doi.org/10.1590/S0042-96862004000200012 United Nations. (2015). The 2030 Agenda for Sustainable Development. Retrieved from https://sdgs.un.org/goals United Nations. (2015). Transforming our world: The 2030 Agenda for Sustainable Development. Retrieved from https://sdgs.un.org/goals/goal3 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

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

**Bachelor of Arts (Economics) Semester-8 CREDIT: 4
(Major) Paper – 40 Econometrics**

Name of Program	Bachelor of Arts (Economics)
Program Abbreviation	B.A.
Duration	Eight semesters (2 Semesters/year)
Eligibility Criteria	12 th pass
Pre-requisite	
Medium of Instruction	Gujarati & English
Objective of Program	5. 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 6. 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 [2701001208050707]

**VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS**

SYLLABUS EFFECTIVE FROM ACADEMIC YEAR :2026-27

જે વિદ્યાર્થીઓએ OJT પસંદ નથી કરતાં તે વિદ્યાર્થીઓ માટે

**Bachelor of Arts (Economics) Semester-8 CREDIT: 4
(Major) Paper – 40 Econometrics**

Program Name	Bachelor of Arts (Economics)					
Semester	8 (Eight)					
NCrF Credit Level	6.0					
Course Type	Major					
Course Subtype	Nil					
Subject Type	Discipline Specific					
Course Code						
Course Level	400-499					
Course Title	Econometrics Paper-40 (Project Dissertation:Applied Statistics for Economics)					
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 પરિક્ષણ - વન વે એનોવા- કાય વર્ગ પરિક્ષણ - ફાઈ ગુણાંક - કેમરનું વી ગુણાંક- કેન્ડલનું ટાઉ-બી ગુણાંક - કાય વર્ગ 2*2 અને 2*K અથવા K*2 માટે કાય વર્ગ પરિક્ષણ						
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