Semester	FIVE		
Paper Number	HSTCR5122T & HSTCR5122P		
Paper Title	Economic Statistics and Demography		
No. of Credits	6		
Theory/Composite	Composite		
No. of periods assigned			
	Pr: 3		
Module	2		
	Module 1: Units 1 & 2 (2 periods)		
	Module 2: Units 3 & 4 (2 periods)		
Course	At the end of the course a student should		
description/objective	 Have preliminary ideas of formulating statistical measures to account for inflation/deflation and economic growth of a country. Have knowledge on comparative social statistics. 		
	 Have an idea about a population and population study. Know some of the basic as well as derived measures for 		
	 the study of human population. Understand the concept of a life table and its significance in real life. 		
	 Be familiar with the notion of growth of a population along with methods of estimating and forecasting the same. 		
	Index Numbers: price, quantity and value indices, choice of weights, Various formulae and their comparisons. Tests of index numbers. Fisher's ideal index number. Chain Index Number. [10L] Some important indices: Consumer Price Index, Wholesale Price index & Index of industrial Production- methods of construction and uses.		
	<i>National accounts:</i> Definition of national income. A brief account of product, expenditure and income approaches for estimation of National Income. [3]		
	UNIT 2:Measurement of poverty and inequality: Desirable properties and different descriptive measures including Gini's coefficient, Lorenz curve. Use of Pareto and Log Normal distributions. Measures of unemployment.[7L]Comparative Social Statistics: development and gender disparity.[3L]		
	UNIT 3: Introduction: Demographic events and processes. Sources of population data, Census and registration. Errors in census and registration data. Rates and ratios of vital events. [3L]		

	Measurements of mortality:Crude death rate (CDR), Specificdeath rate (SDR), Infant mortality rate (IMR) and Standardizeddeath rates.Life (Mortality) tables: assumption, description anduses.Stable and Stationary population.[7L]UNIT 4: <i>Measurements of Fertility:</i> Crude Birth Rate (CBR), GeneralFertility rate (GFR), Specific Fertility rate (SFR) and total Fertilityrate (MRR).[6L]Measurement of population growth: Crude rates of naturalincrease, Pearl's Vital index, Gross Reproduction Rate (GRR) andNet reproduction rate (NRR).[4L]Population estimation, Projection and Forecasting: Use of APand GP methods for population estimates. Fitting of populationcurve for population forecasting using Rhode's method.[6L]		
List of Practical	1. Calculate price and quantity index numbers using simple and weighted average of price relatives.		
	2. To calculate the Chain Base index numbers.		
	3. Problems on cost of livin	ng index numbers.	
	4. Lorenz curve.		
	5. Pareto and lognormal fitt	ting.	
	6. Measures of mortality		
	7. Life Tables		
	8. Measures of fertility and	population growth	
	9. Population Estimation and Projection		
	10. Fitting of logistic equation by Rhode's method		
Reading/Reference Lists	 Mudgett Bruce D (1951): Index Numbers, N.Y : Wiley. Goon A.M., Gupta M.K. and Dasgupta B. (2002): Fundamentals of Statistics, Vol. II, 8th Edn. The World Press, Kolkata. Nagar A.L, Das R.K (1997): Basic statistics, Oxford University Press. Ramakumar R (2002) Technical Demography, New Age. 		
Evaluation	TheoryCIA-10End Sem (Module 1) - 25End Sem (Module 2)-25Total- 60	Practical Continuous assessment: 40	

Paper structure for	Short questions (5 marks each)	Long questions(15 marks each)
End Sem Theory		
Module 1	2 out of 3	1 out of 2
Module 2	2 out of 3	1 out of 2