NATIONAL COLLEGE (AUTONOMOUS), TIRUCHIRAPALLI – 620 001.

M.PHIL PROGRAMME STRUCTURE

Under Choice Base Credit System

(For Candidates Admitted from the academic year 2016 – 2017)

ECONOMICS

SEM EST ER	COURSE	Title of the Paper	Hrs./ week	Credits	Exam. Hrs.	Ma IA	arks UE	Total
Ι	Course I M16EC1	Research Methodology and Educational Technology	4	4	3	40	60	100
	Course II M16EC2	Statistical Techniques	4	4	3	40	60	100
	Course III M16EC3	Contemporary Issues in Indian Economic Development	4	4	3	40	60	100
	Course IV M16EC4	Guide Paper	4	4	3	40	60	100
II		Dissertation		8				200
Total			16	24				600

QUESTION PAPER PATTERN						
Section – A 5 x 4 = 20		Five Questions Either or Type (Theory or Problem) –				
		Theory not more than 300 Words.				
Section – B	4 x 10 = 40	4 out of 6 – Open Choice – Essay/Problem type – theory				
		not more than 1000 words.				

Course I – Research Methodology and Educational Technology Code : M16EC1

Module – I Research Methods

Social Research – Nature, Scope, significance and limitations – Pure, Applied and Descriptive research- Scientific Method – Steps- Theory and Facts – Formulation of a Research Problem – Hypothesis: Types, Sources and Characteristics of a good Hypothesis.

Module – II Research Design

Need and types of research design – Exploratory, Descriptive, Diagnostic and Experimental Design – Sampling Design: Probability Sampling: Simple Random, Systematic. Stratified and Multistage or Cluster Sampling, Non-Probability Sampling – Purposive, Judgement, Quota and convenience sampling – Case study method – Role of Review of Literature.

Module - III Data Sources & Report Writing

Data Collection – Primary and Secondary methods – Observation, Interview, Pilot survey and pre-testing- Schedule and Questionnaire – Construction of a Good Questionnaire – Mechanics of Thesis writing – Format of a Research Report- Footnotes and reference.

Module IV: Educational Technology

Origin, history and meaning of Educational Technology – objectives, forms and approaches – scope, significance and uses of Educational technology – system concept-types-parameters – steps involved in system approach – Educational system – instructional system.

Module V: Information and communicational Technology

Meaning of communication and Informational technology(ICT) – Definition, features trends, uses and limitation – characteristics of e-learning, advantages and limitations – Integration of ICT in teaching and learning, ICT applications using word processors, spread sheets, power-point slides in the classroom – ICT for research: online journals – e-books, technical reports, thesis and dissertations – computer medicated teaching: Multimedia, e-content.

Basic Reading List (For Units I, II and III)

- 1. Elhance, D.N., [200], Fundamentals of Statistics, Allahabad: Kitab Mahal.
- 2. Gupta, S.P., [2001], Statistical Methods, New Delhi: S.Chand & Co.,
- 3. Kothari, C.R., [1998], Research Methodology, New Delhi: Wiley Eastern Ltd.,
- 4. Wilkinson and Bhandarkar [1991], Methodology and Techniques of Social Research, Bombay: Himalaya.
- 5. Pauline, V. Young., Scientific Social Surveys and Research, McGrawHill Inc.

- 6. Shanmuga Sundaram, V.[1974], Papers on the Methodology of Research in Social Sciences, Chennai: University of Madras.
- 7. Kothari, C.R.(2009), Research Methodology: Methods and Techniques, New Age International Publishers, New Delhi.

Additional Reading List:

- 1. Goode and Hatt [1987], Methods in Social Research, London: McGraw Hill.
- 2. Ghosh. B.N., Scientific Method and Social Research, New Delhi, Sterling Publishers, 1982.
- 3. Kurien, C.T., [1973], Research methodology in Economics, Madras: Sangam Publishers.
- 4. Moser, C.A. and Kolton, C.[1980], Survey Educational Methods in Social Investigation, London: Heinemann Educational Books.
- 5. Sonachalam, K.S.[1978], Research Methodology in Social Science, Tamilnadu: Kadayam.
- 6. Shanmuga sundaram.V.[1974] Papers on the Methodology of Research in Social Sciences, Chennai: University of Madras.

Reference List for Unit IV and V (Common for All M.Phil Programmes)

- 1. Mangal, S.K. and Mangal, Uma.[2009], Essentials of Educational Research, PHI, NewDelhi.
- 2. Sharma, R.A. [2006], Fundamentals of Educational Technology, Meerut: Surya publications.
- 3. Kumar, K.L. [2008], Educational Technology, New Delhi: New Age International.

Course II: STATISTICAL TECHNIQUES Code : M16EC2

MODULE - I STATISTICAL MEASURES

Presentation of data: Tabulation - Diagrammatic and Graphical Representation - Averages: Arithmetic Mean, Median and Mode - Dispersion: Range, Standard Deviation and Co-efficient of Variation - Skewness: Pearsons's co-efficient of skewness – Lorenz curve and Ginni Coefficient.

MODULE - II STATISTICAL METHODS

Correlation and Regression: Simple, partial and Multiple correlations – Simple Linear and Non-linear regression – Multiple Linear Regression (Three variables only) - Problems in Regression analysis: Auto-correlation, Heteroscedasticity, Multicollinearity and Errors in variables – Qualitative response regression models: Logit, Probit and Tobit models.

MODULE - III STATISTICAL INFERENCE

Testing of Hypothesis: Testing population mean, testing difference between two means (Large Sample) - Student 't' test: Assumptions and applications - Chi-Square: test of goodness of fit and test of independence - Analysis of variance.

MODULE - IV NON-PARAMETRIC TESTS

Introduction –Advantages of non-parametric tests – The Sign test – The Mann-Whitney U test – One sample Runs test – The Kruskal-Wallis 'H' test- Spearman Rank correlation test – Limitations of Non-parametric tests.

MODULE - V STATISTICAL PACKAGES

Microsoft Excel and its uses in statistical applications - Diagnostic analysis of Regression (Two variable case) - Interpretation of Output of a multiple linear regression model - SPSS, its features - Modules /Tools in SPSS - Introduction to Gretl: An Econometrics software - Its features, tools.

REFERENCES:

- 1. Elhance D N (2000), Fundamentals of Statistics, Allahabad, Kitab Mahal.
- 2. Gupta S P (2014), Statistical Methods, Sultan Chand & Sons., New Delhi.
- 3. Salvatore, Dominic and Reagle, Derrick. (2005), Statistics and Econometrics, 2nd Edition, Tata-McGraw Hill, New Delhi. Chapter 9.
- 4. Gujarati, Damodar N., Porter, Dawn C., and Sangeetha Gunasekar., Basic Econometircs, 5ed, McGraw Hill Special Indian Edition, 2012, Chapter 15.
- 5. Dhnasekaran, Dr.K., Computer Applications in Economics, Vrinda Publications (P) Ltd, Delhi, 2010. (Chapter 6).
- 7. George, Darren and Mallery, Paul., SPSS for Windows STEP BY STEP, Pearson 2013, Chapter 15.
- 8. <u>www.surceforge.net</u> (Gretl user's guide)

COURSE III: CONTEMPORARY ISSUES IN INDIAN ECONOMIC DEVELOPMENT

Code : M16EC3

Module I: Recent Trends in Indian Economy

Agriculture and its growth, Industrial Development, IT Sector ad Economic Development – prime lending/mortgaging – House finance – toxic asset – Reason for Low Agriculture Productivity – MGREP and PURA.

Module II: Gender Issues in Indian Development

Gender Equity – Gender Discrimination – Women and Employment – Women and Law – Women Empowerment – SHGs – Women's Health issues.

Module III : Infrastructure and the State

Infrastructure and Development, Energy and Power – Role of State in Socialistic Society – Rural and Urban inequality - Rural Poverty and Poverty Alleviation Programmes – Food Security.

Module IV : India and the World Economy

India and GATT, WTO and India's Foreign Trade – Globalisation and its impact on India – Recent trends in Macro Economic Policy, Foreign capital and Fiscal Reform.

Module V: Human Development in India

Index of Human Development – Education and HRD – Training – Types – Motivation – Methods – Health Issues – "Health for All" – Rural health promotion in India – Its Challenges.

References:

- 1. Dreze, J and Sen, A.K.(2003), India: Development and Participation, Delhi: OUP.
- 2. -----(Ed), (1996), Indian Development:Selected Regional Perspectives, Delhi:OUP.
- 3. Patnaik, P.(11960, Whatever happened to imperialism? Delhi:Tulika.
- 4. ----- (1995), Macro Economics, Delhi:OUP.
- 5. Agarwal., Bina (1994), Afield of one's own, UK: Cambridge university press.
- 6. Batra, G.S and Kaur, Narindar, Globalisation Strategies and Economic Liberalization.
- 7. Margrit Pernau, Imtiaz Ahmad and Herlmut Reifeld, Family and Gender: Changing Values in Germany and India.
- Datt and Sundaram, Indian Economy, S.Chand & Company Lted, New Delhi. M-Phil_2016

Code : M16EC4

- 1. Agricultural Economics,
- 2. Money and Banking.
- 3. Labour Economics,
- 4. Economics of Marketing.
- 5. Gender Issues and Women Development
- 6. Economics of Social Issues
- 7. Development Frontiers in Economics Policy Issues.
- 8. Economics of Climate Change
- 9. Any other relevant title as the Researcher decides in consultation with Guide.