

CENTRE FOR FUTURES STUDIES

Ph.D. FUTURES STUDIES

COURSE WORK

SYLLABUS (2015 -2016)



GANDHIGRAM RURAL INSTITUTE - DEEMED TO BE UNIVERSITY

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Ph.D. COURSE WORK

Course	Course Title	Exam Hours	ESE	TOTAL
Course Work - I	Research Methodology	3	100	100
Course Work - II	Principles to Futures Studies	3	100	100
Course Work - III	Area of Specialization on Thrust Area	3	100	100

***Detailed Syllabus for Area of Specialization may be prepared by the respective Doctoral Committee**

Course work -1

Research Methodology

Unit I:

Types of Research, Scientific basis of research – methods of acquiring knowledge - Scientific methods and its applications –Need for conceptual analysis, selection of a problem for Research, Review of related literature, formulation of hypotheses, types of variables and Measurement levels.

Unit II:

Research Design and Methods: Purpose and dimensions of research design, steps in formulation of a design. Types of research design – Historical, Descriptive, Experimental designs. Field surveys, diagnostic and evaluation research. Qualitative and quantitative methods in research, Need and relevance of Inter-disciplinary research.

Unit III :

Population and sample, Probability and non-probability sampling techniques, requisites of a good sample. Tools and techniques of data collection– Observation, interview, Schedule and questionnaire – Psychological tests, Projective techniques, , Focus Group discussion, PRA.

Unit IV:

Data Processing and Analysis of Data: Descriptive statistics – Central measures, Dispersion measures, Skewness and kurtosis. Bivariate Analysis: Correlation and regression analysis, Analysis of attributes, Analysis of Time – series, Index Numbers and Trend analysis.

Testing of hypothesis, basics in hypothesis testing; Standard Error; Type I and Type II errors, large sample and small sample tests. Tests of significance for attributes.

Unit V:

Report writing: Need and significance of writing research report, types and format. Qualities of a research report, Dissemination of research findings, Evaluation of research report.

Reference Materials: Bibliography, Foot notes, Appendix, Glossary

REFERENCES:

1. Arunkumarsingh, *Tests, Measurements and Research Methods in Behavioural Sciences*, New Delhi: Tata McGraw Hill, 1986.
2. BritahaMikkelson, *Methods for Development work and Research and a Guide for Practitioners*. New Delhi: Sage Publications, 1995.
3. N.Kerlinger, *Foundations of Behavioural Research*, New Delhi: Surjeet Publications, 1983.
4. R.S.Dwivedi, *Research Methods in Behavioral Sciences*, New Delhi: Macmillan, 1997.
5. Runyon, R.Petal, *Fundamentals of Behavioural Statistics*, New Delhi: McGraw Hill, 1996.
6. Y.P.Aggarwal: *Statistical Methods: Concepts, Applications and Computations*, New Delhi: Sterling Publishing Company, 1988.
7. P.Vijayalakshmi and C.Sivapragasam, *Research Methods: Tips and Techniques*, MJP Publishers, Chennai, 2009.
8. S.K. Mangal, *Statistics in Psychology and Education Prentice*, New Delhi, – Hall of India Private Limited, 2002.
9. S.P.Gupta, *Statistical Methods*, New Delhi, Sultan and Chand Publishers.
10. C.R.Kothari, *Research Methodology, Methods and Techniques*, New Age International Private Limited, New Delhi, 2014.

Course Work -2

Principles of Futures Studies

Unit I

Introduction to Futures Studies

Introduction – future concepts –characteristics of futures –attributes of futures – uses of future studies–futurology: concepts and views–relevance of futuristic thinking – technology forecasting: definition, types of planning levels, signals of technological change.

Unit II

Early Warning System

Introduction – future scanning needs Early Warning System (EWS) – threat and opportunity inventory– social change: meaning of social change, theories of social change –factors of social change: biological factor, environmental factor, cultural factor, psychological factor, technological factor. Effect of Family life–Effect of Economic life –Effect of Social life – Effect of State –Effect of Religious life.

Unit III

Technology Assessment

Introduction– Technology Assessment (TA) and Environmental Impact Analysis (EIA): Description and distinction – Uses of TA/EIA– Assessment objectives–Validity: cause effect understanding, balance, and methodological soundness. Utility: relevance, timeliness, credibility, communicability. Types of TA/EIA: Project Assessment, Problem Oriented Assessment and Technology Oriented Assessment– Family of Assessment Studies: macro assessment, mini assessment, micro assessment, monitoring, and evaluation. Components of assessment: problem definition, technology, social description, impact identification, impact analysis, policy analysis and communication of results.

Unit IV

A Manifesto for Change and Vision for India

A manifesto for Creative School Education for Generating Quality Input: empowered education system, choice of subjects, course curriculum... .., recommendations for teachers' education etc.

Research Oriented Higher Education with skill and knowledge development: higher education system, decoupling the controlling institutions.... .., Multidisciplinary research universities etc.

Independent Evaluation: Creation Of Independent University Ranking, Admission procedure choice based system, curriculum development... .., etc.

Affordable and Quality Health Care: Life style diseases in India, Medical Education, Cardiac diseases management and prevention, Strengthening Public Health Systems in Rural Areas, Pharmaceuticals and Drug Price Regulation etc.

Distinctive profile for a developed India.

Unit V

Environmental Management

Basic concepts and elements of environment—scope of environmental biology: environmental analysis, ecosystem analysis, population biology, community studies, environmental degradation, Environmental Monitoring. Environmental pollution: land, water, air, Desertification, Soil erosion. Environmental challenges of the world and India. Types of conservation, Agencies of Conservation, Environmental Programmes—Scope of Environmental Education.

References

- Ayres, R.U., 1969, *Technological Forecasting and Long-Range Planning*, McGraw-Hill, New York.
- Kusumaker, H., 1976, *Several Cultural Changes Likely- India in 2000 AD*, The Times of India, 1st March.
- Bright, J.R., 1970, *Evaluating Signals of Technological Change*, Harvard Business Review, January/February pp. 62-70
- Subramaniam Naidu T., “*An introduction to Futurology: Forecasting and Assessment, theory and practice*”, New Century Book House (P) Ltd., Madras.
- Port A. L., Rossin F.A *A Guidebook for Technology and Assessment and Impact Analysis*
- A.P.J Abdul Kallam and V.Ponraj, *A Manifesto For Change A Sequel To India 2020* pp 182-250.

Textbooks

- Environmental Studies by R.Murugeshan
- Environmental Education by M.P Mishra