KRISHNA UNIVERSITY: MACHILIPATNAM

FACULTY OF EDUCATION

Ph.D./M.Phil. Education Part I Syllabus

(From 2014 batch onwards)

Paper I: RESEARCH METHODOLOGY AND EDUCATIONAL STATISTICS

Unit I: Educational research

1.1 Meaning, Aims, Nature and Scope of educational research.
1.2 Types of educational research.
1.3 Review of related research – objectives, need and organization.
1.4 Research Problem- Meaning of the problem and Sources of identifying the problem.

1.5 Criteria/ characteristics of a good research problem,Formulation of research problem.

1.6 Hypothesis: meaning, importance, characteristics and formulation of hypothesis, forms of hypothesis, ways of stating hypothesis.

Unit 2: Methods of Educational Research, Sampling, Tools and Techniques of data collection, Research Proposal and research report

2.1 Qualitative research – meaning and characteristics- phenomenological studies, ethnographical studies, case studies, historical studies, philosophical studies.

2.2 Quantitative research- meaning and characteristics –experimental research, quasi-experimental research, survey method, correlation studies.

2.3 Action research.

2.4 Sampling: Sampling and population, characteristics of a good sample, techniques of sampling selection, choice of sampling method, sampling errors and how to reduce them.

2.5 Tools and techniques of data collection:Opinionnaire, Questionnaire, attitude scales, rating scales and check lists, interview, observation, achievement test, diagnostic test, socio-metric techniques, and projective techniques.

2.5.1 Characteristics of a good instrument.

2.5.2 Construction and standardization of tools.

2.6.1Developing a research proposal.

2.6.2 Reporting research- the beginning, the main body and the end(Format of the research report).

Unit 3: Descriptive statistics and inferential statistics

3.1 Tabulation, organization and graphical representation of quantitative data.

3.2 Measures of Central tendency: Arithmetic mean, median and mode.

3.3 Measures of Variability: Range, Quartile Deviation, Mean Deviation and standard Deviation.

3.4 Normal Probability Distribution: Properties, uses and applications, Divergence from normality-skewness and kurtosis.

3.5 Statistical Tests: Parametric and Non-Parametric Tests- when to use them.

3.5.1 Parametric Tests- Sampling Distribution of Means (a) Large Samples (b) Confidence Interval (c) Levels of Significance (d) Small Samples (e) Degree of Freedom.

3.5.2 Testing the statistical significance of mean and other statistics.

3.5.3 Testing the significance of difference between means and other statistics - Application of t-test, Z-Test

3.5.4 Testing the significance of difference among means one way ANOVA (F-test)

3.5.5 Two way ANOVA and ANCOVA - Concept, Assumption and uses.

Unit 4: Non-Parametric Tests and correlational techniques

4.1 Chi-square tests

4.2 Sign Test

4.3 Median Test

4.4 Spearman's Rank Correlation coefficient (rho).

4.5 Karl Pearson's product moment correlation coefficient (r) – ungrouped and grouped data.

4.6 Multiple correlation.

Unit 5:Computerand Educational Research

5.1 MS-office and data Analysis Software,

5.1.1Word-Introduction of word processor, creating and saving documents.

5.1.2 Excel-Introduction to excel, need of spreadsheet, creating, opening and saving workbook, editing worksheet, using links, applying different views, Types of functions.

5.1.3 Power Point–Introduction of slides, speaker notes, media clips, graphs, Picture, web pages, adding different kind of slides, working with Power Point, inserting text objects, formatting Text.

5.1.4 MS Access

5.2 Internet: Connecting to the internet, Internet services, E-mail, World Wide Web, web browsers, search engines.Evaluating internet resources: Authority, Accuracy and objectivity. What is Plagiarism and how to avoid it?

Reference Books:

1. Agarwal, J.C. (1983): Educational Research- An Introduction, New Delhi: Arya Book Depot.
2. Best, J.W., and Kahn, J.V. (1997): Research in Education, New Delhi: Prentice Hall of India (p) Ltd.
3. Frankel and Wallen (1993): How to design and evaluate Research in Education, Singapore: Mc Graw Hill Inc.
4. Good, C.V., Barr, A,S., and Scates, D.E: Methodology of research, New York: Mc Graw Hill book(O)

5. LokeshKoul (1984): Methodology of Educational Research, New Delhi: Vikas Publishing House Pvt. Ltd.
6. Moser and Kalton (1975): Survey methods in Social Investigations, London: Heinemann Educational Books.
7. Mouley, G.J. (1964): The Science of Educational Research, New Delhi: Eurasia Publishing home (P) Ltd.
8. Van Dalen,D.B(1966):Understanding Educational Research- An Introduction, McGraw Hill Book Co.,
9. Garrett, H.E. (1973): Statistics in Education and Psychology, Bombay: Vakils, Feffer and Simon Pvt. Ltd.
10. Kurtz, A. K., and Mayo, S. T. (1980): Statistical Methods in Education and Psychology, New Delhi: Narosa Publishing House.
11. Lindquist, E.F. (1970): Statistical Analysis in Educational Research, New Delhi: Oxford and IBH Publishing Co.

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FACULTY OF EDUCATION

Ph.D./M.Phil. Education Part I Syllabus

(From 2014 batch onwards)

Paper II: PERSPECTIVES OF EDUCATION

Unit 1: Teacher Education

1.1 Concept of teacher education
1.2 Aims of teacher education
1.3 Need and significance of teacher education
1.4 History of teacher education in India
1.5 Teacher Education related institutions -NCTE, NCERT, NIEPA, and SCERT
1.6 Importance of IT literacy for teachers and teacher educators and Problems in utilizing IT in teacher education and remedial measures.

Unit 2: Primary Education

2.1 Aims and scope of primary education

2.2 Universalisation of Elementary Education and National Curriculum Framework (2007) - Rajiv Vidya Mission (RVM) - Activity based learning.

2.3 Promoting values in elementary education – National Policy on Education, 1986- The Kasturiba Gandhi ShikshaYojana.

2.4 Problems in elementary education in teaching and learning process.

Unit 3: Universalization of Secondary Education

3.1 Constitutional provisions, policies and programmes of secondary education.

3.2 Current status and problems of secondary education – with special reference to girl child education, inclusive education and vocationalisation of education.

3.3 Right to education act and its implications for universalization of secondary education

Unit 4: Systems of Education: Distance education, Non-formal education, Alternative schooling and Women Education.

4.1 Distance education: objectives, role and importance of distance education. Current status of distance education in teacher education.

4.2 Non-formal education: Importance, status and organization of NFE and different approaches to NFE.

4.3 Alternative Schooling: Definition, scope, beneficiaries and status of Alternative schooling.

4.4 Women's education: Importance of women education- methodology in women's education.

4.5 Progress of Women's education in India – Present trends in women's education-research in women education.

Unit 5: Contemporary issues in Education

5.1 Liberalization, Privatization and Globalization in education.

5.2 Value crisis and education

5.3 International understanding and peace education.

5.4 Crisis management.

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FACULTY OF EDUCATION

Ph.D./M.Phil. Education Part I Syllabus

(From 2014 batch onwards)

Paper III: EDUCATIONAL PSYCHOLOGY

Unit I: Understanding the learner

1.1 Understanding the learner in the light of interests, needs and individual differences.
1.2 Personality development with reference to Freud's theory.
1.3 Assessment of personality.

Unit II: Growth and Development

2.1 Concept and the principles of growth and development.

2.2 Cognitive development with reference to Piaget and Bruner.

2.3 Emotional and Social development with reference to Ericson.

2.4 Kohlberg's moral development.

2.5 Characteristics features and problems of Adolescents.

Unit III: Intelligence and Motivation

3.1 Nature, characteristics and types of motivation, achievement motivation; Maslow's hierarchy of needs.

3.2 Intelligence: meaning and nature; theories and measurement of Intelligence.

3.3 Cattles theory, Sternberg's triarchic theory; Guilford's structure of intellect.

3.4 Multiple intelligence, Emotional intelligence and Social Intelligence – their assessment and educational significance.

3.5 Creativity and its measurement.

Unit IV: Learning and Learning Process

4.1 Concept of learning and teaching-learning process.

4.2 Factors influencing learning: learner, teacher, school and home.

4.3 Theories of Learning: Guthrie's theory of contiguity and Lewin topological theory.

4.4 constructivism.

Unit 5: Role of Guidance and Counselling

5.1 Identification of abnormal and differently abled children.

5.2 Meaning and nature of guidance and counselling.

5.3 Types and techniques of guidance and counselling.

5.4 Tools in guidance: observation, interview and rating scale.

5.5Standardization of measuring instruments in guidance and counselling.

Time: 3 hrs.   **Max. Marks: 100**

Answer all the questions following internal choice. Each question carries 20 marks.

1. (a) Explain the meaning of research problem. What are the major sources of identifying the problem? Explain, in detail, the characteristics of a good research problem.

Or

(b) Explain the meaning and importance Hypothesis. What are the different forms of hypothesis and ways of stating hypothesis?

2. (a) Explain the characteristics of a good sample. What are the different techniques of sampling selection? What are the different sampling errors and how to reduce them?

Or

(b) Prepare a research proposal for any topic of your choice.

3. (a) Explain the properties and applications of Normal Probability Distribution. Write a short note on skewness and kurtosis.

Or

(b) In a test of abstract reasoning, a sample of 83 tenth-grade boys and a sample of 95 tenth-grade girls scored as shown below on a test of abstract reasoning.

Sex	N	Mean	Standard Deviation
Boys	83	30.92	7.81
Girls	95	29.21	11.56

Is the difference in means significant?

4. (a) Explain the following Non-Parametric Tests: Chi-square tests, Sign Test, and Median Test.

Or

(b) Compute Spearman's Rank Correlation coefficient for the following data and interpret it.

Subject	A	B	C	D	E	F	G	H	I	J	K	L
Test 1 (X)	50	54	56	59	60	62	61	65	67	71	71	74
Test 2 (Y)	22	25	34	28	26	30	32	30	28	34	36	40

5. (a) How do you use MS Word, MS Excel and MS Access throughout your research process?(Topic selection to thesis submission)

Or

(b) What are the criteria for evaluating internet resources? What is Plagiarism and how to avoid it?

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Paper II: PERSPECTIVES OF EDUCATION

Model Paper

Time: 3 hrs.   **Max. Marks: 100**

Answer all the questions following internal choice. Each question carries 20 marks.

1.1 1. (a) Explain the Importance of IT literacy for teachers and teacher educators and discuss Problems in utilizing IT in teacher education. Suggest remedial measures.

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Or

1.2 (b) What is the need and significance of teacher education? Explain the role of NCTE and NCERT in maintaining standards in teacher education.

2. (a) Discuss Problems in elementary education in teaching and learning process. Suggest some remedial measures.

Or

(b What is the position of Universalisation of Elementary Education in India - Explain the role of Rajiv Vidya Mission (RVM) in elementary education.

3. (a) What are the salient features of Right to education act and explain its implications for universalization of secondary education.

Or

(b) What is the concept of inclusive education? How is it different from normal education? Discuss pros and cons of inclusive education.

4. (a) What are the objectives of distance education and write about the importance of distance education. Explain the current status of distance education in teacher education.

.   **Or**

(b) Describe the Progress of Women's education in India .Discuss the role of women in research

5. (a) Write in detail about the relation among Liberalization, Privatization and Globalization in education by explaining each concept.

Or

(b) What is meant by Value crisis .What is its impact on education. Suggest some measures to improve value system among students.

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Paper III: EDUCATIONAL PSYCHOLOGY

Model Paper

Time: 3 hrs.   **Max. Marks: 100**

Answer all the questions following internal choice. Each question carries 20 marks.

1. (a) Write in detail about projective and non projective techniques of assessing personality.

Or

(b)Explain the individual differences in the light of needs and interests

2. (a) write a note on growth and development. What are the differences between growth and development?

or

(b).Write about Ericson's views on Emotional and social development.

3.a)Differentiate multiple intelligence with emotional intelligence. How do you assess them? Explain their educational significance.

Or

 b) What is motivation? What are different types of motivation? Explain Maslow's hierarchy of needs

4 a) Mention theories of learning. Explain Guthries's theory of contiguity and lewin topological theory.

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Or

 (b)What are different factors which influence learning? Write in detail

5 a) Explain   different types and techniques of guidance and counselling?

Or

b) Explain different measures to identify abnormal and differently abled children.