

" अंतरी पेटवूं ज्ञानज्योत "

उत्तर महाराष्ट्र विद्यापीठ

जळगांव-४२५ ००१

NORTH MAHARASHTRA UNIVERSITY

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संदर्भ क्रमांक :

Ref. No. : एम. एड./अभ्यासक्रम/९२/५/२५/ ५३६७

दिनांक :

Dated : १८.६.१९९२

प्रति,

मा. प्राचार्य,

विषय :- एम. एड. चा सुधारित अभ्यासक्रम.

महोदय,

एम. एड. अभ्यासक्रमातील ग्रुप बी. मधील पेपर क्र. १ चा संपूर्ण अभ्यासक्रम हा नुकताच उपलब्ध झाला असल्यामुळे त्याची प्रत सोबत आपल्या माहितीसाठी पाठविली आहे. कृपया सदरचा अभ्यासक्रम सर्व संबंधित प्राध्यापकांच्या आणि विद्यार्थ्यांच्या नजरेत आणावा ही विनंती. तसेच परिपत्रक क्र. ५३/९२ सोबत पाठविलेला पेपर क्र. १ चा अभ्यासक्रम रद्द ठरल्याबाबत घावा.

बळावे,

आपला विश्वासू,

तटा. कुलसचिव.

प्रत माहितीसाठी रवाना :-

- १] मा. अधिकाता, शिक्षणास्त्र विद्याशाखा
- २] मा. तटा. कुलसचिव, परीक्षा विभाग, उ. म. वि. जळगांव.

डीबी./

NORTH MAHARASHTRA UNIVERSITY, JALGAON.

M.Ed. Course

Group - B Paper - 9

ADVANCED EDUCATIONAL STATISTICS

OBJECTIVES:

Knowledge with comprehension :

- The learner explains :
- 1) The properties of Normal distribution.
 - 2) The methods of measuring divergence from Normality.
 - 3) The uses of Normal P.Curve in Education.
 - 4) The meaning of regression.
 - 5) The method of preparing regression equations.
 - 6) The application of regression equations in prediction.
 - 7) The significance of the statistical measures and the difference between them.
 - 8) The hypothesis of chance.
 - 9) The meaning of Null hypothesis.
 - 10) The use of Chi-square test.
 - 11) The different methods of scaling.
 - 12) The meaning of reliability and validity of test scores.
 - 13) The process of item analysis.
 - 14) The meaning and significance of partial and multiple correlation.
 - 15) The meaning of variance and covariance.
 - 16) The methods of analysing variance and covariance.
 - 17) The meaning of factor analysis.
 - 18) The basic assumptions of factor analysis.

Application :

1. The learner solves the statistical problems in Psychology and education based on the different units and subunits in the syllabus.
- 2) The learner interprets the results

Advanced Educational Statistics: Syllabus

Unit.1 : The Normal Distribution :

- 1.1 Properties of Normal Probability Distribution
- 1.2 Measuring divergence from Normality
 - 1.2.1 Skewness.
 - 1.2.2 Kurtosis.
 - 1.2.3 Comparing a given histogram with normal curve of the same area N and O
- 1.3 Applications of the Normal Probability curve.

Unit 2 : Regression and Prediction

- 2.1 Meaning of regression.
- 2.2 Regression Equations .
- 2.3 The Accuracy of Predictions from Regression equations
- 2.4 Application of Regression equations in Prediction.

Unit 3 : Significance of the statistical measures and the difference between them.

- 3.1 The Significance of the Mean and of the Median
The Significance of Measures of variability.
The Significance of Percentages and of the Co-efficient of correlation.
- 3.2 The Significance of the difference between Means, Sigma and percentages and Correlation Co-efficients.

Unit 4 : Testing Experimental Hypothesis

- 4.1. The Hypothesis of chance
- 4.2 The CHI-SQUARE TEST and the Null hypothesis.

Unit 5 : The Scaling of Mental tests.

- 5.1 Sigma Scaling
- 5.2 Sigma scores and standard scores
- 5.3 The T-Scale
- 5.4 The Stanine Scale.^f
- 5.5 Percentile scaling.

Unit 6. : The Reliability and Validity of Test Scores.

- 6.1 The Reliability of test scores and methods of determining it.
- 6.2. The validity of test scores and determining Validity.
- 6.3 Items Analysis.

Unit 7 : Partial and Multiple Correlation.

- 7.1 The Meaning and Significance.
- 7.2 Simple applications of partial and multiple correlation.

Unit 8 : Analysis of Variance.

- 8.1 Meaning of Variance.
- 8.2 Method of analysing variance.
- 8.3 Meaning of co-variance.
- 8.4 Analysis of co-variance.

Unit 9 : Factor Analysis :

- 9.1 The Nature of factor Analysis.
- 9.2 Basic assumptions of factor analysis.
- 9.3 Application of Simple principles of factor analysis in Psychology and Education.

REFERENCES AND BOOKS FOR STUDY :

1. H.E. Garstt. Statistics in Psychology and Education. Longman Green and Co. London.
2. B.Fruchter, Introduction to factor Analysis D.Van Nostrand and Co. N.Y.
3. G. Thempson. Factorial Analysis of Human Ability, University of London Press.

-X-X-X-X-X-X

सम. एड. पाठ्यक्रमांमध्ये पुढील बदल करण्यात आले आहेत-

पाठ्यक्रम १ मध्ये Unit-4 संपूर्ण वगळण्यात यावे. Unit 9 'Futurology and Education' -Unit- 4 च्या जागी घालावे.

Unit 9 मध्ये 9.3 वगळण्यात यावे.

पुस्तकांच्या यादीमध्ये ३१ भविष्याभास आणि शिक्षण : प्रा. बी. बी. पंडित समाविष्ट करण्यात यावे.

वैकल्पिक पाठ्यक्रम B-2 "Co-operative study of Educational systems in SARK Countries" ऐवजी "Co-operative study of Educational systems in U.S.A. & China." असे घालावे

तसेच पाठ्यक्रम B-2 मध्ये USSR ऐवजी China करावे.

वैकल्पिक पाठ्यक्रम 'Environmental Education' मध्ये खालील आशय घालण्यात यावा.

1.1.1 Nature and Scope - Scientific, dynamic, interdisciplinary; and purpose of environmental Science.

2.2.5. Measures and Remedies to control pollution.

2.2.6. Global Problems : Ecological degradation, Acid Rain, Depletion of Ozon layer and Rise in Atmospheric temperature".