

# महाराणा प्रताप पी.जी. कालेज, जंगल धूसड़, गोरखपुर

| कक्षा : B. Sc. II |           | पाठ्यक्रम योजना : सत्र 2019-20 |            | विषय : STATISTICS        |                             |
|-------------------|-----------|--------------------------------|------------|--------------------------|-----------------------------|
| दिनांक            | व्याख्यान | प्राध्यापक का नाम              | प्रश्नपत्र | अध्याय                   | शीर्षक                      |
| 16-7-19           | 1         | K. L. Singh                    | I          | Introduction             | Introduction                |
| 17-7-19           | 2         | K. L. Singh                    | I          | Parametric Models        | Random Sample, Parameter    |
| 18-7-19           | 1         | A. K. Rao                      | II         | Transformation           | Discrete                    |
| 19-7-19           | 2         | A. K. Rao                      | II         | Transformation           | Continuous                  |
| 20-7-19           | 1         | K. L. Singh                    | III        | Types of data            | Primary data                |
| 22-7-19           |           | K. L. Singh                    |            | Class Teaching           |                             |
| 23-7-19           | 3         | K. L. Singh                    | I          | Parametric Models        | Statistic                   |
| 24-7-19           | 4         | K. L. Singh                    | I          | Parametric Models        | Estimator                   |
| 25-7-19           | 3         | A. K. Rao                      | II         | Discrete distributions   | Negative Binomial           |
| 26-7-19           | 4         | A. K. Rao                      | II         | Discrete distributions   | Negative Binomial           |
| 27-7-19           | 2         | K. L. Singh                    | III        | Types of data            | Secondary data              |
| 29-7-19           |           | K. L. Singh                    |            | Class Teaching           |                             |
| 30-7-19           | 5         | K. L. Singh                    | I          | Properties of Estimators | Unbiasedness                |
| 31-7-19           | 6         | K. L. Singh                    | I          | Properties of Estimators | Problems                    |
| 1-8-19            | 5         | A. K. Rao                      | II         | Discrete distributions   | Hypergeometric              |
| 2-8-19            | 6         | A. K. Rao                      | II         | Discrete distributions   | Hypergeometric              |
| 3-8-19            | 3         | K. L. Singh                    | III        | Design of sample surveys | Population and Sample       |
| 6-8-19            |           | K. L. Singh                    |            | Class Teaching           |                             |
| 7-8-19            | 7         | K. L. Singh                    | I          | Properties of Estimators | Consistency                 |
| 8-8-19            | 8         | K. L. Singh                    | I          | Properties of Estimators | Problems                    |
| 9-8-19            | 7         | A. K. Rao                      | II         | Discrete distributions   | Geometric                   |
| 10-8-19           | 8         | A. K. Rao                      | II         | Discrete distributions   | Geometric                   |
| 13-8-19           | 4         | K. L. Singh                    | III        | Design of sample surveys | Census Vs Sample survey     |
| 14-8-19           |           | K. L. Singh                    |            | Class Teaching           |                             |
| 16-8-19           | 9         | K. L. Singh                    | I          | Properties of Estimators | Invariance Property         |
| 17-8-19           | 10        | K. L. Singh                    | I          | Properties of Estimators | Problems                    |
| 19-8-19           | 9         | A. K. Rao                      | II         | Discrete distributions   | Multinomial                 |
| 20-8-19           | 10        | A. K. Rao                      | II         | Continuous distributions | Gamma and Beta Function     |
| 21-8-19           | 5         | K. L. Singh                    | III        | Design of sample surveys | Principles of sample survey |
| 22-8-19           |           | K. L. Singh                    |            | Class Teaching           |                             |
| 24-8-19           | 11        | K. L. Singh                    | I          | Properties of Estimators | Efficiency                  |

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| 26-8-19  | 12        | K. L. Singh       | I          | Properties of Estimators   | Problems                         |
| 27-8-19  | 11        | A. K. Rao         | II         | Continuous distributions   | Gamma                            |
| 28-8-19  | 12        | A. K. Rao         | II         | Continuous distributions   | Gamma                            |
| 29-8-19  | 6         | K. L. Singh       | III        | Design of sample surveys   | Sampling and non-sampling errors |
| 30-8-19  |           | K. L. Singh       |            | Test                       |                                  |
| 2-9-19   | 13        | K. L. Singh       | I          | Properties of Estimators   | MVUE                             |
| 3-9-19   | 14        | K. L. Singh       | I          | Properties of Estimators   | Problems                         |
| 4-9-19   | 13        | A. K. Rao         | II         | Continuous distributions   | Beta                             |
| 5-9-19   | 14        | A. K. Rao         | II         | Continuous distributions   | Beta                             |
| 6-9-19   | 7         | K. L. Singh       | III        | Simple Random Sampling     | WR, WOR                          |
| 7-9-19   |           | K. L. Singh       |            | Class Teaching             |                                  |
| 9-9-19   | 15        | K. L. Singh       | I          | Properties of Estimators   | Sufficiency                      |
| 11-9-19  | 16        | K. L. Singh       | I          | Properties of Estimators   | Problems                         |
| 13-9-19  | 15        | A. K. Rao         | II         | Continuous distributions   | Exponential                      |
| 14-9-19  | 16        | A. K. Rao         | II         | Continuous distributions   | Exponential                      |
| 16-9-19  | 8         | K. L. Singh       | III        | Simple Random Sampling     | Estimation of Y and its mean     |
| 17-9-19  |           | K. L. Singh       |            | Class Teaching             |                                  |
| 19-9-19  | 17        | K. L. Singh       | I          | Properties of Estimators   | Cramer-Rao Inequality            |
| 20-9-19  | 18        | K. L. Singh       | I          | Properties of Estimators   | Problems                         |
| 21-9-19  | 17        | A. K. Rao         | II         | Continuous distributions   | Log-Normal                       |
| 23-9-19  | 18        | A. K. Rao         | II         | Continuous distributions   | Log-Normal                       |
| 24-9-19  | 9         | K. L. Singh       | III        | Simple Random Sampling     | Attributes                       |
| 25-9-19  |           | K. L. Singh       |            | Test                       |                                  |
| 26-9-19  | 19        | K. L. Singh       | I          | Method of Estimation       | Method of Moments                |
| 27-9-19  | 20        | K. L. Singh       | I          | Method of Estimation       | Problems                         |
| 30-9-19  | 19        | A. K. Rao         | II         | Continuous distributions   | Cauchy                           |
| 1-10-19  | 20        | A. K. Rao         | II         | Continuous distributions   | Cauchy                           |
| 3-10-19  | 10        | K. L. Singh       | III        | Stratified Random Sampling | Estimation of Stratum mean       |
| 4-10-19  |           | K. L. Singh       |            | Class Teaching             |                                  |
| 5-10-19  | 21        | K. L. Singh       | I          | Method of Estimation       | Method of M.L.                   |
| 12-10-19 | 22        | K. L. Singh       | I          | Method of Estimation       | Problems                         |
| 14-10-19 | 21        | A. K. Rao         | II         | Continuous distributions   | Laplace                          |
| 15-10-19 | 22        | A. K. Rao         | II         | Continuous distributions   | Laplace                          |
| 16-10-19 | 11        | K. L. Singh       | III        | Stratified Random Sampling | Proportional Allocation          |

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| 17-10-19 |           | K. L. Singh       |            | Class Teaching             |                            |
| 18-10-19 | 23        | K. L. Singh       | I          | Method of Estimation       | Invariance Property        |
| 21-10-19 | 24        | K. L. Singh       | I          | Method of Estimation       | Problems                   |
| 22-10-19 | 23        | A. K. Rao         | II         | Continuous distributions   | Pareto                     |
| 23-10-19 | 24        | A. K. Rao         | II         | Continuous distributions   | Pareto                     |
| 30-10-19 | 12        | K. L. Singh       | III        | Stratified Random Sampling | Neyman Allocation          |
| 31-10-19 |           | K. L. Singh       |            | Test                       |                            |
| 1-11-19  | 25        | K. L. Singh       | I          | Method of Estimation       | Least Square Method        |
| 4-11-19  | 26        | K. L. Singh       | I          | Method of Estimation       | Problems                   |
| 5-11-19  | 25        | A. K. Rao         | II         | Continuous distributions   | Weibull                    |
| 6-11-19  | 26        | A. K. Rao         | II         | Continuous distributions   | Weibull                    |
| 7-11-19  | 13        | K. L. Singh       | III        | Analysis of Variance       | One-way classification     |
| 9-11-19  |           | K. L. Singh       |            | Class Teaching             |                            |
| 11-11-19 | 27        | K. L. Singh       | I          | Method of Estimation       | Minimum Chi-square method  |
| 13-11-19 | 28        | K. L. Singh       | I          | Method of Estimation       | Problems                   |
| 14-11-19 | 27        | A. K. Rao         | II         | Continuous distributions   | Bivariate Normal           |
| 15-11-19 | 28        | A. K. Rao         | II         | Continuous distributions   | Bivariate Normal           |
| 16-11-19 | 14        | K. L. Singh       | III        | Analysis of Variance       | Two-way classification     |
| 18-11-19 |           | K. L. Singh       |            | Class Teaching             |                            |
| 19-11-19 | 29        | K. L. Singh       | I          | Method of Estimation       | Method of Minimum Variance |
| 20-11-19 | 30        | K. L. Singh       | I          | Method of Estimation       | Problems                   |
| 21-11-19 | 29        | A. K. Rao         | II         | Continuous distributions   | Bivariate Normal           |
| 22-11-19 | 30        | A. K. Rao         | II         | Continuous distributions   | Bivariate Normal           |
| 23-11-19 | 15        | K. L. Singh       | III        | Design of Experiment       | Basic Principles           |
| 25-11-19 |           | K. L. Singh       |            | Test                       |                            |
| 26-11-19 | 31        | K. L. Singh       | I          | Testing of Hypothesis      | Simple and Composite       |
| 27-11-19 | 32        | K. L. Singh       | I          | Testing of Hypothesis      | Null and Alternative       |
| 28-11-19 | 31        | A. K. Rao         | II         | Sampling distribution      | Standard Error             |
| 29-11-19 | 32        | A. K. Rao         | II         | Sampling distribution      | Chi- square distribution   |
| 30-11-19 | 16        | K. L. Singh       | III        | Design of Experiment       | CRD                        |
| 2-12-19  |           | K. L. Singh       |            | Class Teaching             |                            |
| 3-12-19  | 33        | K. L. Singh       | I          | Testing of Hypothesis      | Critical Regions           |
| 7-12-19  | 34        | K. L. Singh       | I          | Testing of Hypothesis      | Two kinds of error         |
| 9-12-19  | 33        | A. K. Rao         | II         | Sampling distribution      | Application of Chi- square |

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| 11-12-19 | 34        | A. K. Rao         | II         | Sampling distribution | Application of Chi- square       |
| 12-12-19 | 17        | K. L. Singh       | III        | Design of Experiment  | CRD                              |
| 13-12-19 |           | K. L. Singh       |            | Class Teaching        |                                  |
| 14-12-19 | 35        | K. L. Singh       | I          | Testing of Hypothesis | Level of Significance            |
| 16-12-19 | 36        | K. L. Singh       | I          | Testing of Hypothesis | Power of Test                    |
| 17-12-19 | 35        | A. K. Rao         | II         | Sampling distribution | t-distribution                   |
| 18-12-19 | 36        | A. K. Rao         | II         | Sampling distribution | t-distribution                   |
| 19-12-19 | 18        | K. L. Singh       | III        | Design of Experiment  | RBD                              |
| 20-12-19 |           | K. L. Singh       |            | Class Teaching        |                                  |
| 21-12-19 | 37        | K. L. Singh       | I          | Testing of Hypothesis | MP Test                          |
| 23-12-19 | 38        | K. L. Singh       | I          | Testing of Hypothesis | UMP Test                         |
| 24-12-19 | 37        | A. K. Rao         | II         | Sampling distribution | F-distribution                   |
| 26-12-19 | 38        | A. K. Rao         | II         | Sampling distribution | F-distribution                   |
| 27-12-19 | 19        | K. L. Singh       | III        | Design of Experiment  | RBD                              |
| 28-12-19 |           | K. L. Singh       |            | Test                  |                                  |
| 30-12-19 | 39        | K. L. Singh       | I          | Testing of Hypothesis | N-P Lemma                        |
| 31-12-19 | 40        | K. L. Singh       | I          | Testing of Hypothesis | Problems                         |
| 1-1-20   | 39        | A. K. Rao         | II         | Order Statistics      | Definition                       |
| 2-1-20   | 40        | A. K. Rao         | II         | Order Statistics      | Distribution of Order Statistics |
| 3-1-20   | 20        | K. L. Singh       | III        | Design of Experiment  | RBD                              |
| 4-1-20   |           | K. L. Singh       |            | Class Teaching        |                                  |
| 6-1-20   | 41        | K. L. Singh       | I          | Large Sample Tests    | Based on Normal distribution     |
| 7-1-20   | 42        | K. L. Singh       | I          | Large Sample Tests    | t, chi-square and F distribution |
| 8-1-20   | 41        | A. K. Rao         | II         | Order Statistics      | Range                            |
| 9-1-20   | 42        | A. K. Rao         | II         | Order Statistics      | Median                           |
| 10-1-20  | 21        | K. L. Singh       | III        | Design of Experiment  | LSD                              |
| 11-1-20  |           | K. L. Singh       |            | Class Teaching        |                                  |
| 13-1-20  | 43        | K. L. Singh       | I          | Goodness of fit test  | Binomial                         |
| 16-1-20  | 44        | K. L. Singh       | I          | Goodness of fit test  | Poisson and Normal               |
| 17-1-20  | 43        | A. K. Rao         | II         | Order Statistics      | Uniform                          |
| 18-1-20  | 44        | A. K. Rao         | II         | Order Statistics      | Exponential                      |
| 20-1-20  | 22        | K. L. Singh       | III        | Design of Experiment  | LSD                              |
| 22-1-20  |           | K. L. Singh       |            | Class Teaching        |                                  |
| 23-1-20  | 23        | K. L. Singh       | III        | Design of Experiment  | LSD                              |

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