# TEACHING PLAN
# DEPARTMENT OF STATISTICS
# JULY 2023 - JUNE 2024

गड়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE
NAAC accredited with 'B' Grade

| Period of Semester | Semester | Tentative Date of University Exam (Notification of Dib. Univ.) | Name of the Faculty | Course Code: STAT- | Paper Name | Unit wise Title of the Topic | Number of Lectures (1 Hour per Lecture) Theory-TH Practical-P Seminar-S Group Discussion-GD Tutorial-TU Surprised Test-ST Home Assignment-HA | Tools used for teaching  Black Board-BB ICT Online Class-OC Google Meet-GM Google Classroom-GC |
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| July -2023-Dec,2023 | FYUGP 1st Sem | 6th December -20th December | Dr. Bornali Dutta | C1 | Descriptive Statistics | Unit1- Statistical Methods | TH-08, S-1, TU-2,ST-1 | BB, GM,GC,ICT |
| | | | | MIN STS1 | Basic Statistical Methods | Unit3-Bivariate Data | TH-10,TU-2,ST-2,S-1 | BB, ICT, GC, OC,GM |
| | | | | GEC STS1 | Statistical Methods | Unit-4 Categorical Data | TH-5,TU-01,ST-1, P-1 | BB,ICT,GC,OC,GM |
| | | | | SEC STS1 | Collection of Data and its Presentation | Unit-1 Introduction to Data Collection and Presentation | TH-5, TU-01,ST-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-2 Different Data Collection Methods | TH-06,TU-1,ST-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-3 Data collection Design and Execution | TH-07,TU-1,ST-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-4 Introduction to statistical analysis techniques | TH-08,TU-1,ST-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-5 Practical | TH-15,P-4,ST-1 | ICT |
| July,2023-December 2023 | SEM III | 5th December-20th December | Dr. Bornali Dutta | C5 | Sampling Distributions | Unit1-Limit Laws | TH-6,TU-1,S-1,ST-1 | BB, ICT, GC, OC |
| | | | | | | Unit2-Introduction to Sampling Distribution | TH-8,TU-1,S-1,ST-1,P-7 | BB, ICT, GC, OC,GM |
| | | | | C7 | Mathematical Analysis | Unit-1 Real Analysis | TH-8,TU-1,ST-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-2 Infinite Series | TH-8,TU-1,ST-1 | BB, ICT, GC, OC |
| | | | | | | Unit-3 Review of limit | TH-4,TU-1,ST-1 | BB, ICT, GC, OC,GM |

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| | | | | | | Unit-4 Numerical Analysis | TH-6,TU-1,ST-1,S-1 | BB, ICT, GC, OC,GM |
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| | | | | | | Practical | P-7,ST-1 | ICT, Lab |
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| July.23-December,2023 | SEM V | 11th November- 4th December | Dr. Bornali Dutta | C11 | Stochastic Processes & Queuing Theory | Unit1- Probability Distribution | TH-5,TU-1,ST-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit2- Markov Chains | TH-9,TU-2,ST-2,S-1,P-5 | BB, ICT, GC, OC,GM |
| | | | | | | Unit3- Poisson Process | TH-6,TU-1,ST-1,S-1,P-3 | BB, ICT, GC, OC,GM |
| | | | | | | Unit4- Queuing System | TH-6,TU-1,ST-1,GD-1,P-2 | BB, ICT, GC, OC,GM |
| | | | Dr. Bornali Dutta | C12 | Statistical Computing using C++ | Unit1-History and importance of C Operators and Expressions | TH-9,TU-2,ST-2,S-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit2-Decision making and branching | TH-6,TU-1,ST-1,P-2 | BB, ICT, GC, OC,GM |
| | | | | | | Unit3-User defined functions | TH-6,TU-1,ST-1,P-3 | BB, ICT, GC, OC,GM |
| | | | | | | Unit4-Pointers | TH-6,TU-1,ST-1,GD-1,P-3 | BB, ICT, GC, OC,GM |
| | | | | DSE-2 | Operation Research | Unit-1 Basic Introduction to Operation Research | TH-8, TU-2, ST-1, GD-1,P-3 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-2 Transportation Problem | TH-7,TU-2,ST-1,GD-1,P-3 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-3 Game theory | TH-5,TU-1,ST-1,GD-1,P-3 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-4 Inventory Management | TH-3,TU-1,ST-1,GD-1,P-1 | BB, ICT, GC, OC,GM |
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| January 2024-May 2024 | FYUGP 2nd Sem | 10th May-15th June,2024 | Dr. Bornali Dutta | STSC 2 | Probability Theory and Statistical Distribution | Unit-1 Introduction to Basic Probability Theory | TH-9, TU-01, ST-1,HA-1 | BB, ICT, GC, OC,GM |

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| | | | | MINS TS2 | Basic Probability Theory and Distributio n | Unit-1 Basic concept of Probability Theory | TH-8, TU-1,ST-1,P-1,HA-1 | BB, ICT, GC, OC,GM |
| | | | | GEC STS2 | Basics of Statistical Distributio n and Inference Course | Unit-1 Basic Introduction to Probability Theory | TH-07,TU-01,ST-01,HA-1 | BB, ICT, GC, OC,GM |
| | | | | | | Unit-2 Idea of Mathematical Expectation and generating function | TH-06,TU-01,ST-01,HA-01 | BB, ICT, GC, OC,GM |
| | | | | SECS TS2 | Data Science using MS Excel | Unit-1 Layout of Excel Worksheet | TH-07,TU-02,P-09 | ICT,GC,GM |
| | | | | | | Unit-2 Simple Cell Functions | TH-07,TU-02,P-09 | ICT,GC,GM |
| | | | | | | Unit-3 Excel Function | TH-10,TU-02,P-12 | ICT,GC,GM |
| | | | | | | Unit-4 Excel add ins | TH-12,TU-03,P-15 | ICT,GC,GM |
| | | | | | | Unit-5 Reporting from Excel Output and Project Compilation | TH-10,T-05,P-15 | ICT,GC,GM |
| January, 24-May 24 | 4th Sem (Hon &GE) | 10th May-15th June, 2024 | Dr. Bornali Dutta | C-9 | Linear Model | Unit-1 Gauss Marko Set-Up | TH-15, TU-2 | BB, ICT, GC, OC |
| | | | | | | Unit-2 Regression Analysis | TH-10, S-1, TU-1, ST-1 | BB, ICT, GC, OC |
| | | | | | | Unit-3 Analysis of Variance | TH-10, TU-1, S-1, ST-1 | BB, ICT, GC, OC |
| | | | | | | Unit-4 Model Checking | TH-15, P-12, TU-2 | BB, ICT, GC, OC,GM |
| | | | | GE-4 | Basics of Statistical Inference | Unit-IV Analysis of Variance & Design of Experiments | TH-7,TU-2,ST-2,P-4 | BB, ICT, GC, OC,GM |
| | | | | | | Practicals | | |
| January,2024 M. 2024 | SEM VI | 10th May-15th June,2024 | Dr. Bornali Dutta | C13 | Design of Experimen ts | Unit1-Experimental Designs & Basic designs | TH-7,TU-2,ST-1,P-6 | BB, ICT, GC, OC,GM |
| | | | | | | Unit2-Incomplete Block Designs | TH-4,TU-1,ST-1,P-1 | BB, ICT, GC, OC |
| | | | | | | Unit3-Factorial | TH-7,TU-2,ST-1,P- | BB, ICT, GC, OC |

| | | | | Experiments | 2,S-1 | |
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| | | | | Unit4-Fractional Factorial Experiments | TH-6,TU-2,P-4,ST-2 | BB, ICT, GC, OC,GM |
| | Dr. Bornali Dutta | C14 | Multivariate Analysis 7 Nonparametric Methods | Unit1-Bivariate Normal Distribution | TH-5,TU-1,ST-1,P-2 | BB, ICT, GC, OC,GM |
| | | | | Unit2-Multivariate Normal Distribution & its properties | TH-6,TU-2,ST-2,P-3 | BB, ICT, GC, OC,GM |
| | | | | Unit3-Application of Multivariate Analysis | TH-6,TU-2,P-3,S-1 | BB, ICT, GC, OC,GM |
| | | | | Unit4-Nonparametric tests | TH-6,TU-2,ST-2,P-4 | BB, ICT, GC, OC,GM |
| | Dr. Bornali Dutta | DSE8 | Project Work | Preparation of Questionnaire, Data Collection, Tabulation, Analysis using Statistical Software, Report Writing | | ICT, Extensive Library Work, Computational Software, MS Word, MS Excel etc. |

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