M. G. Science Institute, Ahmedabad

Autonomous | Affiliated to Gujarat University, Ahmedabad

(Managed by The Ahmedabad Education Society)

Department of Statistics

Bachelor of Science (Hons.) in Statistics

B.Sc. (Hons.) Statistics

4 Year, 8 Semester Full-Time Programme

Choice Based Credit System (CBCS) & Grading System

Outcome-Based Education Pattern

(Effective from Academic Year 2024-25)

Semester: IV	Course Title: Statistics Practical (Based on STM241 and STM242	Credit: 4
Course No.: STM243(P)		Hours: 8/week

Part A (Manual)

Sr. No.	Title of the Practical	No. of Hours of Teaching
1	Drawing of random samples from geometric distribution.	4
2	Drawing of random samples from negative binomial distributions.	4
3	Fitting of geometric distributions.	4
4	Fitting of negative binomial distributions.	4
5	Drawing of random samples from Weibull distribution.	4
6	Problems based on Karl Pearson correlation coefficient.	4
7	Problems based on rank correlation coefficient.	4
8	Fitting of straight line and second degree parabola.	4
9	Fitting of curves that are reducible to linear form.	4
10	Problems based on regression coefficient.	4
11	Problems based on multiple correlation coefficient.	4
12	Problems based on multiple regression. Fitting of equation of plane of regression for x_1 on x_2 and x_3.	4
13	Problems based on partial correlation.	4
14	Problems based on partial regression.	4
15	Drawing of random numbers from BVND.	4

Part B (Using MS Excel)

Sr. No.	Title of the Practical	No. of Hours of Teaching
1	Drawing of random samples from geometric distribution.	4
2	Drawing of random samples from negative binomial distributions.	4
3	Fitting of geometric distributions.	4
4	Fitting of negative binomial distributions.	4
5	Drawing of random samples from Weibull distribution.	4
6	Problems based on Karl Pearson correlation coefficient.	4
7	Problems based on rank correlation coefficient.	4
8	Fitting of straight line and second degree parabola.	4
9	Fitting of curves that are reducible to linear form.	4
10	Problems based on regression coefficient.	4
11	Problems based on multiple correlation coefficient.	4
12	Problems based on multiple regression. Fitting of equation of plane of regression for x_1 on x_2 and x_3.	4
13	Problems based on partial correlation.	4
14	Problems based on partial regression.	4
15	Drawing of random numbers from BVND.	4