

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

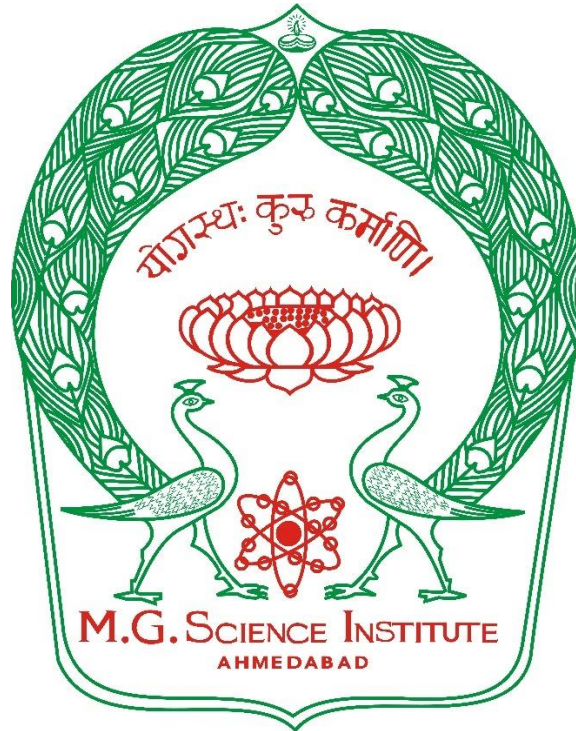
B.Sc. (Hons.) Statistics

4 Year, 8 Semester Full-Time Programme

Choice Based Credit System (CBCS) & Grading System

Outcome-Based Education Pattern

(Effective from Academic Year 2024-25)



Detailed Syllabus for Each Course B.Sc. (Hons.) Statistics

STM353(P) Statistics Practical

Semester: V	Course Title: Statistics Practical (Based on STM351 and STM352)	Credit: 4
Course No.: STM353(P)		Hours: 8/week

Part A (Manual)

Sr. No.	Title of the Practical	No. of Hours of Teaching
1	Examples based on method of moments.	60
2	Examples based on Method of maximum likelihood estimate.	
3	Examples based on point and interval estimation for single mean and single proportion	
4	Examples based on point and interval estimation for difference of two means and two proportions	
5	Examples based on interval estimation for ratio of two variances	
6	To test the significance of population mean for small samples (t test).	
7	To test the significance difference between two independent samples,	
8	To test the significance difference between two dependent samples.	
9	To test the significant difference between two population Variances.	
10	Fisher's Z – transformation for testing significance of observed correlation coefficient.	
11	Fisher's Z – transformation for testing significance of two observed correlation Coefficients.	
12	Tests based on chi square test to test the significance of variance	
13	To test the independence of attributes	
14	To test the goodness of fit.	

Part B (Using MS Excel)

Sr. No.	Title of the Practical	No. of Hours of Teaching
1	Examples based on method of moments.	60
2	Examples based on Method of maximum likelihood estimate.	
3	Examples based on point and interval estimation for single mean and single proportion	
4	Examples based on point and interval estimation for difference of two means and two proportions	
5	Examples based on interval estimation for ratio of two variances	
6	To test the significance of population mean for small samples (t test).	
7	To test the significance difference between two independent samples,	
8	To test the significance difference between two dependent samples.	
9	To test the significant difference between two population Variances.	
10	Fisher's Z – transformation for testing significance of observed correlation coefficient.	
11	Fisher's Z – transformation for testing significance of two observed correlation Coefficients.	
12	Tests based on chi square test to test the significance of variance	
13	To test the independence of attributes	
14	To test the goodness of fit.	