College	Science
Department	Statistics and Biostatistics
Program	MS Statistics
Reporting for Academic Year	2022-2023
Last 5-Year Review	2018-2019
Next 5-Year Review	2023-2024
Department Chair	Ayona Chatterjee
Author of Review	
Date Submitted	15th September 2023

I.   SUMMARY OF ASSESSMENT
   A.   Program Learning Outcomes (PLO)

PROGRAM LEARNING OUTCOMES (PLOs)	
Students graduating with a MS in Statistics will be able to:	
PLO 1	Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends at the Master's level.
PLO 2	Derive basic theory underlying these methodologies.
PLO 3	Model practical problems for solutions using these methodologies.
PLO 4	Produce relevant computer output using standard statistical software and interpret the results appropriately.
PLO 5	Communicate statistical concepts and analytical results clearly and appropriately to other
PLO 6	Employ theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Program Learning Outcome(S) Assessed

For MS in Statistics

Year : 2022-2023	
1. Which PLO(s) to assess	PLO 5
2. Is it aligned to an ILO?	Yes
3. If yes, list ILO.	Communication
4. Course name and number	STAT 632 – Linear and Logistics Regression
5. SLO from course	Communicate statistical concepts clearly and appropriately to others.
6. Assessment activity	Written project report
7. Assessment Instrument	Departmental Rubric for written communication
8. How data will be reported	Quantitatively, proportions of students in each category from 1-5 (5 mastered)

Summary of Assessment Results
Main Findings: Main Findings:
Scores from the Project Presentation Assignment in STAT 632

Score (max 100)	PLO 1
95 - 100	33 (54%)
90-94	27 (44%)
80-89	0
70-79	0
Less than 70	

10. Time (which semester(s))	Fall and Spring	
11. Ways of closing the loop	Included in end-of year report and internal assessment of PLOs.	