Department of
Computer Science & Engineering
University of Liberal Arts Bangladesh

Complex Engineering Project

Course Title: Statistics & Probability **Course Code:** STA 206	**Section**: 01 **Semester:** Fall 2022
Course Teacher: Khan Raqib Mahmud	
Project No.: 03	

Problem: A Statistical Analysis On Climate Change and How It Is Affected By Global Warming

Addressing Complex Engineering Problems

Attributes		**Addressing the complex engineering problems in the project**
WP1	Depth of knowledge required	The project is completed using Python. It requires the knowledge of libraries such as numpy, pandas, matplotlib, seaborn and linear regression.
WP2	Range of conflicting requirements	Choice of dataset, Accuracy of prediction, Regression co-efficient, choice of variables
WP3	Depth of analysis required	No unique way to design. Depth of analysis needed to select a specific solution from many alternatives
WP4	Familiarity of issues	Prediction of weather, prediction of global warming, change in climate in specific regions
WP5	Extent of applicable codes	There is no existing code of standard, New code is applicable.
WP6	Extent of stakeholder involvement	There are several stakeholders needs to be involved including air quality indexing dataset and Bangladesh Meteorological Department
WP7	Interdependences	Project does not involve any independent sub-systems.