

# **IPRO 320 Energy & Sustainability For IIT Campus Buildings**

## **The Project Plan**

### **Objective:**

The main objectives of this project are to gather Heating Ventilation and Air Conditioning performance data (Temperature, Humidity, Air Speed, Light) of each building on campus and to analyze it to provide feasible solutions to the problems found.

### **Team Setup**

The team will be divided into two groups. One group will be devoted to field data collection while the other will concentrate on research.

### **Field Data Analysis Team**

This group will focus on collecting all aforementioned performance data throughout all on campus buildings as well as map out all collected data to properly depict possible areas where commissioning issues are present. Through this process, the field data analysis team will ensure that all performance data is clear and concise.

### **Research Team**

This group will document performance of the buildings existing conditions, as well as what the proposed building performance should be. The field team will provide the research team with the summary of data collected, at which point the research team will analyze the data, and formulate possible solutions.

### **Expected Result:**

By performing this commissioning process the team intends to discovery any commissioning issues present on IIT's campus and catalog the problems for further resolution. Completion of the aforementioned objective will aid the university in improvement of building operations and maintenance, lowering utility bills through energy savings, and improvement of building and system functions by identifying problem areas in the existing buildings.