

# MGMT 4057 Project Descriptions – Group 4

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Describe in 2-4 sentences three projects your team has identified that will:

- Promote environmental sustainability at George Brown College
- Conforms to the following:
  - Focuses on the colleges St. James location at 200 King St East
  - Cannot exceed CDN \$300,000 to implement (i.e., the implementation, monitoring/controlling and closing phases)
- Will be planned in March and April 2022 (during this course)
- Will be implemented between May 1, 2022, and December 31, 2022 (over 8 months) with a launch date during the first two weeks of January 2023

## **Project 1:**

### **Reduce Food and water waste in cafeteria**

College can seek help to reduce food wastage in cafeterias in the following ways:

- a) Use Lean Path Spark technology to bring food waste information to life on displays, combining high-impact messaging with real-time feedback loops. This food waste prevention technology allows us to track pre- and post-consumer food waste by incorporating floor scales and integrating digital signage to track, educate and act. Spark may be installed in the front-of-house to educate consumers, or in the back of-house to inform kitchen staff about food waste priorities.
- b) Daily donations to orphanage, food banks, and charities.
- c) Reduce the size of food plates from round to oval plates with a smaller surface area.
- d) Have a close monitoring of the food and water consumption and adjust the purchases to the actual requirements.
- e) Have a compost alternative for the food waste.

## **Project 2:**

### **Eco-Friendly transportation to campus on Electric Scooters/bike**

There is gradual increase CO<sub>2</sub> emissions and other harmful gases year by year causing global warming, most of it accounts from vehicle pollution. There is major share of college students/staff who use private gas-powered vehicle as transport to come to college. With introduction to offer Eco-Friendly transportation to campus on electric scooters/bikes, we can provide a green transport alternative benefitting both students/staffs and the college. Students/staff can register and avail for e-bikes/scooter with GBC on the days of their scheduled class. They can charge their bikes while being parked at college or they use charging stations installed in city free of charge.

To provide convenient service, GBC will create a mobile application, where students/staff can find available eScooter/eBike, on/off campus and unlock them by scanning the QR code.

## **Project 3:**

### **Improve airflow to reduce the amount of AC needed to cool buildings in summer/stay warm in winter.**

With CO<sub>2</sub> emissions on the rise, everything we can do to help lower emissions and energy usage will help. Our idea is that George brown can renovate some of their buildings to allow more airflow during the summer months. This would make it so that they do not need to use the AC as much to stay cool. This would reduce the amount of electricity used in the summer months by George brown which would also save the school money.

Additionally, energy-efficient heat recovery ventilators can also be utilized as they offer better energy savings in hot, air-conditioning climates. It can save up to 75% or more of wasted energy.