***Pollution: making smarter cities.***

***Student Brief***

***A 3 day Virtual BUSINET STEM Intensive Study Period (ISP) Activity***

***Pre-Course Assignment:***

Students should spend 2 or 3 hours to complete the pre-course work and make their submission by 12:00hrs on Monday 21st June 2021 to ExpLearn@virginmedia.com

*Task*:

There are many different types of pollution that surrounds us in our daily life and many more sources of these pollutants. We would like you to think about your local environment in and around your home and local community. Thinking about pollutants that you encounter daily we would like you to create three simple surveys to gather data relating to 3 different types of potential pollution. These three surveys should look at different types of pollution quantitively highlighting several different sources of this pollution relative to your home and local community.

Your surveys must be able to be replicated in any location.

***Project Scope:***

Pollution is all around us in our daily life. Since the onset of the industrial revolution the pace of discovery and technology has continually increased decade upon decade, however it is the environment that is now paying the heavy price for these advancements. With the exponential growth in global population the current use of the planets natural resources is no longer sustainable.

Participating students will be working virtually with international students in cross cultural groups. They shall form research groups that will be tasked with creating a process to capture relevant data from their own surroundings; combine their findings to inform further research that will lead them to their own groups conclusions in accordance with the EU’s Global Sustainability Goals. The groups will then investigate what could be implemented within a specific city to deliver a reduction in the impact of daily life to the environment. Finally the groups will present their findings and make proposals for the city to enhance its sustainability and lessen the harm that individual citizens make to the environment.

This project will be a great way for STEM students to experience multicultural collaborative group work within a virtual environment. Involving native speakers and the use of English as the common language, their use and comprehension of technical English will be developed. Through the experiential learning activities the students will not only be challenged to make use of their academic knowledge they will further enhance their transversal skills and micro credentials

**Full Program**

Day 1:

Wednesday 23rd June 2021

9am – Welcome and Introduction to ISP

9.30am – Presentations 1: Ilse Vermeulen, UCCL - Pollution All Around Us

10am. – Issue Project Brief. Split into 3 Teams Break out Rooms with Lecturer support to create Team structure

12-1pm - Lunch Break

1pm – Return to main Room. Split into Break out rooms. Start on team work Activity (freestyle)

4.30pm Return to Main Room for debrief of Day 1

5pm – End

Day 2:

Thursday 24th June 2021

9am – Daily Activity Briefing

9.15am – Presentation 2: Prof. Sean Smith, Edinburgh University “Smart Cities”

10am. – Project Work. Split into Teams in Break out Rooms with Lecturer support in each room

12-1pm - Lunch Break

1pm – Presentation 3: Rob De With - Sustainable Global Goals.

1.30pm - Split into Break out rooms. Project Activity (freestyle)

4.30pm - Return to Main Room for debrief of Day 2

5pm – End

Day 3:

9am – Daily Activity Briefing

9.15am – Project Work. Split into Teams in Break out Rooms.

11am - Presentation 4: Pieter-Paulus Vertongen - Presenting Data Analysis

12-1pm - Lunch Break

1pm – Submissions Deadline

1pm - Split into Break out rooms. Final preparations for presentations

2pm – 4pm Final Presentations to Panel

4pm – Feedback

5pm – Close