Research Aim:

The aim of this research is to determine whether computer vision can be used to process real-time MCAST library surveillance footage and observe students' activities and their durations in the library.

Research Hypothesis:

Computer vision algorithms can accurately identify, track and measure specific student activities and their durations using real-time surveillance footage in the MCAST library.

Research Questions:

1. Can the algorithm detect and track the student and tasks in the library?
2. How accurately can the algorithm determine the duration of the task the user is doing?
3. How will the algorithm determine the task that the student is doing when the student has different tasks surrounding him?

Inspirational Sources:

- https://ieeexplore.ieee.org/document/9573964
- https://ieeexplore.ieee.org/document/10434536
- https://github.com/Surya-Murali/Real-Time-Object-Detection-With-OpenCV
- https://github.com/oulutan/ACAM_Demo