# *Advanced Topics in Computer Science II (420-G50-HR)*

# *Assignment 1a – Monitoring CS Trends*

Date assigned: January 23, 2025

Date due: February 7, 2025

**Learning Objectives**

Upon successful completion of this assignment, the student will:

* Apply the research skills gained in Advanced Topics I
* Be aware of current technical developments and topics in the computing domain.

To do:

1. For this assignment, research the topic you were assigned.
2. Prepare a Technical Report using the ***Technical Report Presentation Outline*** document
3. Prepare a 10-15mins presentation of the topic containing the following:
   1. Title Slide
   2. Definition of Key Concepts
   3. Introduction – Brief overview of the computing trend; why the topic is significant and what the presentation covers
   4. Technical Overview – underlying technologies; infrastructure; integration; benefits, challenges and outlook (the future)
   5. Give some use cases in practice – i.e., examples of individuals, businesses or industries using it.
   6. Conclusion – Summary and Recommendations
   7. References - (<https://cegep-heritage.libguides.com/citations/mla>)

**Marking Guide**

|  |  |
| --- | --- |
|  | **Out Of** |
| Title Slide | 2 |
| Definition of Key Concepts | 5 |
| Introduction – brief overview, significance and scope | 10 |
| Technical description of the topic | 30 |
| Current use cases of the topic/technology – include examples of how individuals, businesses or industries use it | 10 |
| Conclusion | 10 |
| Delivery of presentation – poise/appearance, proper pacing, voice and eye contact | 5 |
| Quality of slides – design, spelling and grammar | 5 |
| References | 10 |
| Technical Report Structure | 30 |
| **Total** | **117** |

**To submit**

A technical report document (*firstinitiallastname\_*G50A01a\_techRpt.docx) as well as the PowerPoint presentation on Moodle.