

Debre Berhan University

Department of Information Technology

ITec 3134 – Seminar on Current Trends in Information Technology

Group Assignment II – Emerging Domains in IT (30%)

I. Assignment Overview

This group assignment is worth **30%** of your course grade. Each group will explore one emerging domain in modern Information Technology and prepare:

1. A written seminar report
2. A **PowerPoint presentation** (10–12 slides)
3. Active participation in seminar discussions
4. The must be submitted by the due date. Late submissions will be penalized.

You must choose one topic from the list below (a topic must be done only by a group).

1. Cloud & Distributed Computing
2. Cybersecurity & Digital Trust
3. Human-Centered Computing & User Experience
4. Data Architecture & Analytics
5. Sustainable IT & Emerging Frontiers

II. Written Report Requirements

Your report should be well organized, clearly written, and referenced properly. It must include the following sections:

1. Introduction

- Introduce the selected domain.
- Explain why it is important in the current IT landscape.

2. Current Trends (Last 5 Years)

- Discuss key technologies, tools, platforms, and advancements with respect to the selected topic.
- Provide clear explanations using recent developments

3. Real-World Applications

- Present at least three real world applications or case examples.
- Show how the technology is used in industry, government, or society.

4. Opportunities and Challenges

- Identify major benefits and opportunities.
- Discuss challenges, risks, and ethical or security concerns (where relevant).

5. Future Directions

- Explain expected developments in the next 3–5 years.
- Support predictions with evidence or credible reports.

6. Group Reflection (1 – 2 page)

- What did your group learn?
- How does this topic relate to earlier seminars (your assignment 1)?
- How can this knowledge support your future professional work?

7. References

- Minimum 8 credible sources (use APA format).
- Sources may include journal articles, books, reports, or reputable websites.

III. Presentation Requirements (10–15 Slides)

Prepare a maximum of 15 minute presentation. Your team will prepare a professional PowerPoint presentation that includes:

- Title slide (topic + group members)
- Overview of the domain
- Key trends
- Real-world applications
- Opportunities & challenges
- Future outlook
- Reflection summary
- References

Presentation Time:

- **10 – 15 minutes** presentation
- **5 minutes** question-and-answer session

IV. Seminar Participation

After presenting, each group must:

- There should be active participation of group members in reflection, questioning and answering session.

V. Evaluation Criteria (Total: 100 points ➔ 30%)

Evaluation Area	Points	Weight in Final Grade
Written Report – Quality, clarity, depth, & organization	30	9%
Relevance of the content with the corresponding topic	20	6%
Evidences & examples	15	4.5%
Team collaboration & participation	15	4.5%
Presentation – Clarity, visuals, delivery	10	3%
Referencing and general formatting of the doc.	10	3%
Total	100 points = 30%	30%

VI. Submission Instructions

- **Early submission is strongly encouraged. It is possible to arrange an early presentation schedule for those who will submit their assignments before the due date.**
- Submit the PDF report and your power points
- **Due Date:** 22/04/2025
- **Presentation Date:** 23/04/2025

Notice: on the cover page, write the following



DEBRE BERHAN UNIVERSITY

Department of Information Technology

Title of your Assignment

Group members name and ID number like

Group X: Name & ID Number

1. Xxx
2. Xxx
3. Xxx
4. Xxxxx

December 5, 2025

Debre Berhan, Ethiopia