

## Assignment 2

**Course Title:** Research Methodology in Computer Science

**Course Code:** AI800

**Weighting:** 30 %

**Lecturer:** Dr. Mohammed Anbar

**Hand-out Date:** 1 March 2025

**Hand-in Date:** 15 March 2025

**Hand-in Method:** Online Submission via E-Learning.

### Assignment Details:

In this assignment, your task is to formulate a clear problem statement and research objectives. The problem statement is to be based on the literature review (LR) you conducted in Assignment 1.

#### A good problem statement should contain the following:

- Identify the problem domain.
- Describe the problem.
- Highlight the Significance
- Mention existing solutions.
- Justify the need for research.
- Ensure to provide in-text citations

**Note:** refer to “Steps for formulating research problem with examples” in PPT to guide you on how to formulate research problem

#### A good Research objective contain the following:

- Clearly state the primary goal of the research, followed by the objectives required to achieve this goal. Each objective should begin with "To...". For example, "To propose," "To design."
- Ensure that the research objectives are aligned with the problem challenges identified in the problem statement.

**Note:** Refer to the "Formulate objectives: Example" in the PowerPoint presentation to guide you on how to formulate research objectives.

### Deliverables:

Your submission should include a report that comprises the research title, problem statement, research objectives, and literature review. The research title and literature review were covered in Assignment 1. Therefore, in this assignment, students need to combine them.

**Notes:**

- Please be aware that plagiarism and the use of AI content generators are strictly prohibited. Students found engaging in such practices may receive a grade of zero for their work. Therefore, exercise caution and integrity when composing this assignment.
- This assignment is intended to be completed individually.