

**Department of Artificial Intelligence**

**College of Computer Science and Information Technology**

**Due Date: Tuesday October 30, 2024 @ 11:59 PM**

**Late Submissions:**

* Q: Can I skip the lab and submit the solution?
  + You will receive a mark of **zero** if you do not attend the lab, even if you complete the exercise. Attending the labs is compulsory for evaluation. If you have a justified excuse, you may receive a partial mark depending on the circumstances. See the next question for information on late submissions.
* **Q:** If I submit it at 12:00am, you’ll still mark it, right?
  + **A:** 11:59pm and earlier is on time. Anything after 11:59pm is late. Anything late will **NOT** be probably marked. If I find you have a legitimate cause, you will be graded according to the following rules (24 hours after deadline 🡪 assignment is marked out of 75% only, 48 hours after deadline 🡪 assignment is marked out of 50% only, 72 hours after deadline 🡪 assignment is marked out of 25% only)

Your task is to perform image reconstruction with a focus on the following aspects:

**Fixing Damaged Images:** Given a damaged image, restore it to its original state, removing any visible defects or damage.

**Text Removal:** Remove text or watermarks from an image, leaving the background intact.

**Logo Removal:** Remove logos or unwanted objects from an image while preserving the surrounding content.

You can use appropriate image processing techniques and tools to accomplish these tasks.

Provide an explanation of your code in your own words. This is to ensure that you have a deep understanding of the code you've written and its underlying concepts. You are expected to comments on the main parts and functions of the code.

Guidelines:

* Your explanation should be original and in your own words. Do not copy explanations from textbooks, online resources, or peers.
* Go beyond just describing what the code does. Explain why you chose certain methods or approaches and how they benefit the solution.

**Assessment**

1. Each student will show all the above parts running as demo to the Lab Instructor **before leaving the lab.** Total marks for the lab is as follows

|  |  |
| --- | --- |
| Task 1 | Marks (demo + report) |
| 1 | 10 |
| Total | 10 |

1. Students will prepare a report in which they will submit the snapshots taken while they worked on each part. They will explain the figures to make sure that they understood what they did.