

Programming Assignment Report – Requirements

Each group should submit **one** report only for each assignment which **must** contain the following sections, **strictly** in the order provided:

1. [5 pts]. Cover page: it should contain:

- a. Project Title
- b. Project Number
- c. Course Number
- d. Student's Name
- e. Date due
- f. Date handed in
- g. Statement specifying how the work was divided between team members. Each team member **must** contribute close to equally **both** in terms of coding and report write-up.

2. [20 pts] Theory: it should contain the main theory of the methods implemented. No implementation details should be provided in this section.

3. [10 pts] Implementation: it should contain a high level description of the method you implemented.

4. [50 pts] Results and discussion: it should contain sample results, discussion of results, major findings in terms of the assignment objectives, and clear reference to any figures generated (i.e., use figure captions).

5. [5 pts] Source Code: include in the end of the report a printout of the source code for all the algorithms implemented in the assignment. Standard routines and other material obtained from other sources should be acknowledged by name, but their listings should **not** be included. This also applies to any methods implemented in a previous assignment (i.e., already included in previous reports).

[10 pts] Overall organization and grammar. Be well organized, type your reports, use correct grammar, and include figure captions with a brief description for all the figures included in your report. Figures should appear in the report close to where you reference them (not at the end of the report or some irrelevant place in the report) and should be properly formatted (not too small or too big).

Example

1. Cover page

Self-explanatory.

2. Theory

Use your own words (i.e., do not just cut and paste information from the slides or the book) to summarize the theory (i.e., methods and main equations implemented) **for each part** of the assignment. This will show me how well you understand the methods implemented. For clarity, the theory for each part of the assignment must be discussed in a separate subsection. In the case of the first assignment, for example, there should be four subsections under this section:

2.1 Image Sampling: Theory

2.2 Image Quantization: Theory

2.3 Histogram Equalization: Theory

2.4 Histogram Specification: Theory

3. Implementation

Provide a high level description for each method implemented including special data structures or algorithm used. If desired, pseudo-code could be used in this section.

4. Results and discussion

Present your results and discussion for each part of the assignment separately. In the case of the first assignment, for example, there should be four subsections under this section:

4.1 Image Sampling: Results and Discussion

4.2 Image Quantization: Results and Discussion

4.3 Histogram Equalization: Results and Discussion

4.4 Histogram Specification: Results and Discussion

5. Source Code

Include enough comments and use appropriate naming both for the variables and functions in your code.