

## CMP9780M Applied Signal and Image Processing **A02** 2024-2025

Learning Outcome	Criterion	Pass	Merit	Distinction
[LO1] Critically evaluate and apply the theories, algorithms, techniques, and methodologies involved in signal and image processing.	Criterion 1: Evaluate the Image Processing Methods (50%)	<p>The report provides basic steps to solve all the image processing and classification problems.</p> <p>Your discussion provides evidence of understanding the approaches to the problems, but they are simple and lack a convincing justification.</p> <p>The classifiers randomly classify the data used for marking.</p> <p>Basic justifications have been given for misclassifications using confusion metrics in the discussion of results.</p>	<p>The report provides clear steps to solve all the image processing and classification problems,</p> <p>Your discussion provides good evidence of understanding the approaches to the problems with clear justifications.</p> <p>The classifiers perform slightly better in classification than random guessing using the marking data.</p> <p>Good justifications have been given for misclassifications using confusion metrics in the discussion of results.</p>	<p>The report provides detailed steps to solve all the image processing and classification problems,</p> <p>Your discussion provides in-depth evidence of understanding the approaches to the problems with an excellent justification. The report is well-written and structured.</p> <p>The classifiers perform significantly better in classification than random guessing using the marking data.</p> <p>An excellent justification has been given for misclassifications using confusion metrics in the discussion of results.</p>
[LO2] Design and implement solutions to a range of signal and image processing applications and problems and evaluate their effectiveness.	Criterion 2: The Image Processing Software (30%)	The software implements part of the solution to the proposed application. There are some critical errors in the implementation and design of the software.	The software implements good solution to the proposed problem, but there are some non-critical errors in the design and implementation of the software.	The software implements an excellent solution to the proposed problem. It does not contain significant errors in the design and implementation, which are both very appropriate.
	Criterion 3: The Video Demos. (20%)	The student submitted the two 3-minute video clips for the image processing tasks. The key features of the applications are demonstrated in the video, with the student displaying a basic understanding of the methodologies utilised inside the program codes.	The student submitted the two 3-minute video clips for the image processing tasks. The key features of the applications are demonstrated in the video, with the student displaying an average understanding of the methodologies utilised inside the program codes.	The student submitted the two 3-minute video clips for the image processing tasks. The key features of the applications are demonstrated in the video, with the student displaying an in-depth understanding of the methodologies utilised inside the program codes.
<b>Weighting is 50% of the module</b>	All criteria in this assessment are weighted as indicated above			