

**School of Engineering and the Environment**  
**Department of Mechanical Engineering**  
**Coursework Assessment Brief**

<b>Module Code</b>	EG4024_ME
<b>Module Title</b>	Fluid Mechanics and Thermodynamics
<b>Title of Assessment</b>	Group Lab report
<b>Summative (% of module) or Formative</b>	Summative – this assignment is worth 100% of your module grade
<b>Typical individual student hours required to complete the assessment</b>	40 hours
<b>Assessment set by (and contact)</b>	Dr Ali Heidari, RVMB200 A.Heidari@kingston.ac.uk
<b>Submission deadline (date and time)</b>	Within two weeks of timetables session
<b>Formal feedback</b>	Within 20 working days of submission

All assignments must be submitted by the date and time specified above. Students are required to submit an electronic copy of their completed assignment via the Assignments section of Canvas and follow any specific instructions. Any change to this instruction will be advised via Canvas.

In line with Faculty policy for late submission of coursework, any work submitted up to a week late will be capped at 40%. Coursework submitted after this time will receive 0%.

In case of illness or other issues affecting your studies please refer to the University Mitigating Circumstances policy. Guidance on mitigating circumstances can be found on MyKingston:

<https://mykingston.kingston.ac.uk/myfaculty/sec/secstudentsupportMC/Pages/Mitigating-Circumstances.aspx>

Please note that if you submit a piece of work, you have judged yourself fit to undertake the assessment and cannot claim mitigating circumstances retrospectively.

Guidance on avoiding academic assessment offences such as plagiarism and collusion can be found on [MyKingston > Academic Regulations](#)

### **Module Learning Outcomes**

The following module learning outcomes and professional body learning outcomes are tested in this assessment:

1. Discuss the basic principles of fluid mechanics and solve engineering problems in fluid mechanics.
2. Discuss the basic principles of thermodynamics and solve engineering problems in thermodynamics.
3. Conduct experimental investigations, analyse the results and discuss their significance.

<b>Assessment task and specific terms</b>	
<ul style="list-style-type: none"> <li>Specific details of the assessment task are fully described in the Lab Booklet, including all details for report writing, submission, and marking.</li> </ul>	
<b>Assessment Criteria</b>	
<p>Assessment of your submission will be based on the following weighted assessment criteria as given below which relate to the specified module and PSRB learning outcomes. Assessment criteria are reproduced in Canvas in a rubric.</p>	
<b>Specific Criteria (marking scheme)</b>	<b>Marks available</b>
<b>Front cover and Abstract, Table of Content &amp; Contribution Page</b> Abstract (200 words maximum) should be well written, clear and succinct, summarise the aims, methods, results and conclusions of the practical. Front cover, table of content and contribution page should be included.	<b>2</b>
<b>Introduction</b> Clearly written, well structured, with evidence of relevant extra reading and background information. You should identify the main aims and objectives of the practical and explain the rationale for performing the study.	<b>2</b>
<b>Methods and Experimental Procedures</b> Describe clearly the experiment, the apparatus used, the experimental procedures and the methods.	<b>2</b>
<b>Theory</b> Detail and explain the appropriate theory for the experiment you have carried out.	<b>2</b>
<b>Results</b> Present clearly all calculation details, all graphs and tables. All figures and tables should be captioned correctly, with complete and descriptive captions. Provide references if applicable.	<b>42</b>
<b>Discussion</b> Discuss in detail the results from the practical, compare the expected results to those obtained, analyse the experiment errors, relate the results to the objectives, provide your scientific opinion.	<b>42</b>
<b>Conclusions/Recommendations</b> Brief summary of conclusions from the experiment and your recommendations.	<b>2</b>
<b>Overall appearance and structure of report, effort</b> Report well structured, well written, clear, concise writing and well presented. Appropriate level of effort demonstrated. Report maximum 20 pages and word processed, minimum font size 11.	<b>2</b>
<b>Grammar/Spelling/Language</b> Report is free of grammatical and spelling errors.	<b>2</b>
<b>Referencing</b>	<b>2</b>

All references corrected listed in “Reference” section and properly cited in the report following Harvard style.	
<b>TOTAL</b>	<b>100%</b>
<b>Academic skills support</b>	
<p>For help and advice on this assessment please contact the assessment setter/s or the module leader. For advice on academic writing and referencing please contact the Faculty of Engineering, Computing and the Environment (ECE) Academic Success Centre (SASC). Trained staff and students will give you guidance and feedback on assessments. SASC (Student Academic Success Centre) can be contacted by email: <a href="mailto:SASC@kingston.ac.uk">SASC@kingston.ac.uk</a> and is open every day in PRSB1019 and on Wednesdays in the RV Library.</p> <p><a href="https://kingstonuniversity.sharepoint.com/sites/mykingston/myfaculty/ECE/Pages/SASC.aspx">https://kingstonuniversity.sharepoint.com/sites/mykingston/myfaculty/ECE/Pages/SASC.aspx</a></p>	