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| **Programme & Year Group** | **CW\_EDMEM\_M**  **Master of Science in Military Engineering Management**  **CW\_EDCTM\_M**  **Master of Science in Communication Technology Management**  **CW\_EDWOM\_M**  **Master of Engineering in Ordnance, Munitions and Explosives Engineering** |
| **Module Title** | **RESEARCH METHOD FOR ENGINEERING** |
| **Lecturer** | Dr Edmond Tobin |
| **Assignment Weighting** | **Data Analysis and Visualisation 30%** |
| **Assignment type** | ASSIGNMENT NUMBER 2: Individual |
| **Submission date** | By 23:59 – 15th November 2022 |
| **Submission details** | **Turnitin on Blackboard**  **Note:** Assignments not submitted via Turnitin, will be regarded as a non-submission unless approved by Extended Campus  [extendedcampus.cw@setu.ie](mailto:extendedcampus.cw@setu.ie) |

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| **Assignment Brief:**  Using the dataset provided, produce a statistical analysis report of the data and present a series of graphs of the data that would be in a form suitable for publication in a journal paper or other formal report.  The dataset has 4 dependent variables, all of which should be analysed. Perform normality and homogeneity tests first, and complete post hoc tests if required.  The report should have a discussion on the data including the significance of the dataset.  You can use any statistical software that you are familiar with. Jamovi is available to download if you don’t access to one (link on Blackboard). |

# Extension Policy

Assignments will not be accepted after the submission date.

As per SETU policy, submission dates will only be extended in exceptional circumstances.

If an extension is required, students must email [extendedcampus.cw@setu.ie](mailto:extendedcampus.cw@setu.ie) in **advance** of the deadline. Supporting documentary evidence may also be requested.

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| **Penalties for late submission for current assignment (where no formal extension has been granted):** | Assignments received at any time after the submission date may be graded, but a penalty applies, as follows:   1. Assignments submitted at any time up to one week after the due date to have the mark awarded to them reduced by 10 per cent (for example, from 57% to 47%); 2. Assignments submitted more than one week but up to two weeks after the due date to have the mark reduced by 20 per cent (for example, from 87% to 67%); 3. Assignments received more than two weeks after the due date shall not be accepted. In this event, the learner shall receive a grade of 0. |

# Plagiarism Policy

Assignments which have copied work from websites, from other authors, from other students or any other sources will receive a grade of 0. All instances of plagiarism will be reported to the Head of Department who, in turn, is obliged to report them to the Vice President for Academic Affairs. Students who receive this grade may be asked to justify their actions to the Institute’s plagiarism panel. Please note that copying verbatim from original sources is unacceptable even if you provide references.

# Referencing & Resources

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| **Referencing Style:** | You should use Harvard Referencing for your assignment. Should you need any support with this, please consult the resources at the following links:   * On Blackboard (in TLC Student Hub), check out Module 3 of the [PACE Modules from Library and Teaching and Learning Centre](https://blackboard.itcarlow.ie/webapps/blackboard/content/listContentEditable.jsp?content_id=_628237_1&course_id=_9271_1&mode=reset) – Module 3 explores citations and referencing and will guide you on how to reference correctly. * *Credit where Credit is Due* – Institute’s Referencing Guide – available at: <https://libguides.itcarlow.ie/ld.php?content_id=31933427> |
| **Additional Supports (if required):** | As this is a written assignment, you may wish to avail of the additional supports that are available to you on Blackboard (via TLC Student Hub), as follows:   1. [Academic Writing Resources](https://blackboard.itcarlow.ie/webapps/blackboard/content/listContentEditable.jsp?content_id=_425511_1&course_id=_9271_1&mode=reset) – [log-in required] links to a range of supports and materials that will help you with your writing. 2. [PACE Modules from Library and Teaching and Learning Centre](https://blackboard.itcarlow.ie/webapps/blackboard/content/listContentEditable.jsp?content_id=_628237_1&course_id=_9271_1&mode=reset) – a suite of online modules to help you Plan, Access, Critique, and Evaluate resources in the library that can assist you with your assignment. 3. Academic Writing Centre one-on-one session – if you need help with any aspect of your assignment writing (e.g. sentence structure, referencing, etc.) and would like a 15-minute session with an Academic Writing Tutor, then check out TLC Student Hub each week for the timetable of support sessions and book a slot by emailing [tlc@itcarlow.ie](mailto:tlc@itcarlow.ie) 4. Online support resources:  * <https://libguides.westminster.ac.uk/critical-thinking-and-writing/critical-writing> [outlines the key features of critical writing and how to structure your writing in order to express criticality] * <https://library.dmu.ac.uk//ld.php?content_id=1879493> [includes a useful glossary and suggestions on how to develop your ideas] * <https://www.bangor.ac.uk/studyskills/study-guides/critical-writing.php.en> [some very useful strategies on how to find your own academic voice] * [https://online.essex.ac.uk/blog/15-foolproof-tips-for-writing-a-great-assignment/](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fonline.essex.ac.uk%2Fblog%2F15-foolproof-tips-for-writing-a-great-assignment%2F&data=04%7C01%7CGina.Noonan%40itcarlow.ie%7C317cc13d49f94fe4ee4508d8bc9b801f%7Ca762370c07674d5bb5b302cc8ec279fd%7C1%7C0%7C637466723341497619%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=ub0gwntwfbBKT9B4IUX6hZzNOKngrqHnP3EkzU6mmLU%3D&reserved=0) [does exactly what it says!] * [https://www.openpolytechnic.ac.nz/current-students/study-tips-and-techniques/assignments/step-by-step-guide-to-assignment-writing/](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.openpolytechnic.ac.nz%2Fcurrent-students%2Fstudy-tips-and-techniques%2Fassignments%2Fstep-by-step-guide-to-assignment-writing%2F&data=04%7C01%7CGina.Noonan%40itcarlow.ie%7C317cc13d49f94fe4ee4508d8bc9b801f%7Ca762370c07674d5bb5b302cc8ec279fd%7C1%7C0%7C637466723341467640%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=CrmNJAwIFpClmi4BWC4iEQRmr9l2pwuYOgWG5hwJXtw%3D&reserved=0)   <https://www.yumpu.com/en/document/read/24258034/writing-guide-1-writing-an-assessed-essay-university-of-leicester> |
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# Academic Integrity

All work submitted should be correctly cited and referenced, respecting and acknowledging the work of others. It is each person’s own responsibility to ensure that academic integrity is maintained through awareness of appropriate referencing and paraphrasing practices.

Should you require any further support on this, please consult the resources available to you on TLC Student Hub and in particular Module 3 of the [PACE Programme](https://blackboard.itcarlow.ie/webapps/blackboard/content/listContentEditable.jsp?content_id=_628237_1&course_id=_9271_1&mode=reset).

For more detail on Academic Integrity, please consult the Institute’s Academic Integrity Policy and Procedure: <https://www.itcarlow.ie/public/userfiles/files/Academic-Integrity-Policy-V4.pdf>