**Engineering Innovation Challenge 2024**

**PHASE A: Problem Statement & Written proposal (Cat. 1 to 4)**

**Guidelines**

**Submission date: Latest by 12 April 2024**

# To explore and create innovations that contributes to a Circular Economy

Please do not include this 'Guidelines' page into your report.

Students are advised to type their Project Abstract and Project Report using **12-point Times New Roman font (or equivalent) with 1.5 line-spacing**. The project title and project code should also be printed on the upper right-hand corner of each page (except cover page).

The project documents should comprise the following:

- **Cover Page** which should include only the title of the project and names of students and school.
- **Project Abstract** which is a concise summary of the report with *no more than 500 words*, which will be used during project judging.
- **Project Report** which describes the actual lab, field or theoretical research for the project. It should involve ideas and preferably, data generated or researched by the student. In short, it should include Research, Literature Review and Proposal.

  It should include:

  - Description of what the Project is about: Background and purpose of the research area or application.
  - What does it aim to do, how good are the results?
  - Describe features of the Project (photos, labelled diagram etc.)
  - An experimental section including methods and results if any
  - Procedures, Risk and Safety, and Methods for data analysis
  - Bibliography or references from your literature review
  - Conclusion including a discussion of the results and implications.

  Credit shall be given to the appropriate source and reference.

  For the Project Report, students are advised **not to exceed five pages,** inclusive of data in tables, figures and diagrams. *References and appendices do not count towards the five-page limit*. To ensure fairness across submission, judges are advised that they can ignore any part of a report that exceeds the five-page limit.
  The next few pages show the suggested templates.

**Cover Page**

# Engineering Innovation Challenge 2024

<Project Title>

<Project code>

<Name of Student(s)>

<Name of School>

**Project Abstract**

A concise summary of the report with *no more than 500 words*, which will be used during project judging and for visitors during public viewing day. It should not include acknowledgements (such as name of school, name of mentor or research institutions) or external endorsements.

**Project Report**

Project Report describes the lab, field, or theoretical research for the project. It should involve ideas and preferably, data generated or researched by the student.

Credit should be given to the appropriate source and reference.

It should include:

- Background and purpose of the research area or application
- Research Question(s), Hypothesis(es), Engineering goal(s) and Expected Outcome(s)
- An experimental section including methods and results if any
- Procedures, Risk and Safety, and Methods for data analysis
- Bibliography or references from your literature review
- Conclusion including a discussion of the results and implications.

Students are advised **not to exceed five pages**, inclusive of data in tables, figures and diagrams. References and appendices do not count towards the five pages To ensure fairness across submission, judges may ignore any part of a report that exceeds five page limit.