Using the Optimizing Problem Solving Pentagon as a Basis for Research Skills in Final Year Engineering
Using the Optimizing Problem Solving Pentagon as a basis for research skills in Final Year Engineering Project.

Tran Minh Hien
Karu Purush
Sta Maria, Belinda

Research and Learning
Library and Learning Commons
Monash University Malaysia
Final Year Engineering Project (FYEP)
Final Year Engineering Project (FYEP)

- Thesis Formatting with MS Word
- Managing references with EndNote
- Literature Review
- Technical Writing
- Structuring the Report Writing reports

Utilising technological tools

- Presenting findings

- Presentation Skills
The RSD Pentagon may be used as a Thinking Routine (R. Ritchhart & D. Perkins, 2008).

**RSD pentagon**

*When in doubt, return to the centre*
Thesis formatting using Microsoft Word with the OPS pentagon as a basis for research

The most essential facet: Communicate & Apply

Students use Microsoft Word to produce a well-formatted project paper.
Using EndNote for managing references and citations, with reference to the OPS pentagon

The most prominent facet: Organise and Manage

Students need to categorise and classify according to the type of references, organise and manage references in the EndNote library.
The OPS pentagon as a basis for writing and oral presentation in FYEP

The most relevant facet:

**Communicate & Apply**

*Introduction, Discussion/Analysis; Interpretation of results/findings; Conclusion; Recommendations; Class presentations*
THANK YOU

Karu Purush  
Email: purusothaman@monash.edu

Tran Minh Hien  
Email: tran.minh.hien@monash.edu

Sta Maria, Belinda  
Email: belinda.sta.maria@monash.edu