

Judging Sheet for Proposal Projects

(E)=engineering project

Problem definition ____/10 points

- Problem was sufficiently defined
- Originality
- Identified need or problem
- Identified need or problem (E)

Literature Review____/20 points

- Incorporates recent sources
- Includes scientific, credible sources
- Knowledge of literature relevant to project
- Connections to other disciplines
- Uses citations appropriately
- Connection between the literature review and proposal is well-explained.
- Feasibility study (E)

Hypothesis____/20 points

- Clearly Stated Hypothesis
- Hypothesis supported by literature review

Experimental Plan____/30 points

- Scope of the project appears to be reasonable.
- Possible alternative approaches to the proposed research are discussed
- Application & understanding of scientific method or design process
- Use of unique methods, designs or materials
- Creative Approach to Problem-Solving
- Logical experiment with control and appropriate experimental groups
- Clear procedure that could be followed easily and consistently
- A clear plan is presented for data collection and analysis including all appropriate data tables, diagrams, graphs, and calculations shown neatly with all labels (without data)
- Development of clear performance criteria (E)

Support Documentation ____/5 points

- Laboratory notebook present and sufficient
- Technical research paper or proposal containing above information present

Project Presentation____/15 points

- Highlights relevant information
- Clarity of presentation
- Effectiveness and use of visual display
- Judges' questions were effectively anticipated and succinctly answered following the initial presentation