



Mechanical Engineering THESIS PROPOSAL REVIEW RUBRIC

Graduate Student Name : _____
 Proposed Thesis Topic: _____
 Faculty Thesis Advisor: _____
 Proposal Review Date: _____
 Reviewer Name: _____

Attribute	Unsatisfactory	Needs Improvement	Satisfactory	Very Good	Outstanding
Command of ME subject matter appropriate for entry to an MS program	<input type="checkbox"/> Remedial BS course work required <input type="checkbox"/> Command of ME subject matter not at <u>entry-level</u> MS	<input type="checkbox"/> Remedial BS course work recommended <input type="checkbox"/> Command of ME subject matter below most <u>entry-level</u> MS students	<input type="checkbox"/> Command of ME subject matter typical of most <u>entry-level</u> MS students	<input type="checkbox"/> Command of ME subject matter above most <u>entry-level</u> MS students	<input type="checkbox"/> Command of ME subject matter far superior to most <u>entry-level</u> MS students
Literature Review Quality	<input type="checkbox"/> No Literature Review	<input type="checkbox"/> Literature review should be improved prior to acceptance of proposal	<input type="checkbox"/> Sufficient understanding of previous work to date, more effort needed during thesis	<input type="checkbox"/> Thorough and critical review of previous work, refinements should be done	<input type="checkbox"/> Unusually extensive and critical review of previous work; lit review is essentially complete
Literature Review Quantity	<input type="checkbox"/> No Literature Review	<input type="checkbox"/> Limited knowledge of research literature	<input type="checkbox"/> Some knowledge of research literature, should continue to build this base	<input type="checkbox"/> Thorough knowledge of research literature	<input type="checkbox"/> Unusually extensive knowledge of research literature
Literature Citations	<input type="checkbox"/> Citations insufficient or missing, possible plagiarism	<input type="checkbox"/> Citations incomplete or contain errors	<input type="checkbox"/> Citations accurate & appropriate, should be added to in the future	<input type="checkbox"/> Citations clearly sufficient, continue refinements in future	<input type="checkbox"/> Citations clearly sufficient
Knowledge of contemporary issues in chosen research field	<input type="checkbox"/> No societal context	<input type="checkbox"/> Limited societal context	<input type="checkbox"/> Some knowledge of societal context	<input type="checkbox"/> Thorough knowledge of societal context	<input type="checkbox"/> Unusually extensive knowledge of societal context
Plan for completing proposed thesis research (Resources: Equipment, Space, Experiment, Computing)	<input type="checkbox"/> Course plan missing <input type="checkbox"/> Timeline missing <input type="checkbox"/> Budget missing <input type="checkbox"/> Resource plan missing	<input type="checkbox"/> Course plan unrealistic <input type="checkbox"/> Timeline unrealistic <input type="checkbox"/> Budget unrealistic <input type="checkbox"/> Resource plan is unrealistic	<input type="checkbox"/> Course plan reasonable <input type="checkbox"/> Timeline reasonable <input type="checkbox"/> Budget reasonable <input type="checkbox"/> Resource plan is reasonable	<input type="checkbox"/> Course plan almost a certainty <input type="checkbox"/> Timeline conservative <input type="checkbox"/> Budget conservative <input type="checkbox"/> Resource plan conservative	<input type="checkbox"/> Courses completed <input type="checkbox"/> Timeline conservative <input type="checkbox"/> Budget confirmed <input type="checkbox"/> Resource plan conservative and confirmed
Ability to complete work independently	<input type="checkbox"/> Unreasonably high level of guidance has been required <input type="checkbox"/> Minimal independence demonstrated	<input type="checkbox"/> Level of guidance too high, not enough independence demonstrated by the student	<input type="checkbox"/> Independent work demonstrated by the proposal, student should continue in this manner going forward	<input type="checkbox"/> Risks identified and mitigation plans in place <input type="checkbox"/> Clearly reasonable and thorough plan	<input type="checkbox"/> Demonstrated ability to work independently with minimal supervision
Ability to defend their research work to a panel of experts	<input type="checkbox"/> Unable to respond to questions about the research topic <input type="checkbox"/> Poor response to basic queries	<input type="checkbox"/> Falters but, with coaching, is able to respond to topical questions <input type="checkbox"/> Student may not understand scope	<input type="checkbox"/> May have to reflect on questions, but works through a valid response to questions about the proposed research	<input type="checkbox"/> Clear command of material and readily able to respond to questions about the proposed research	<input type="checkbox"/> Shows depth of thought and reflection in response to questions about the proposed research
Demonstrate understanding of ME coursework	<input type="checkbox"/> Unable to respond correctly to <u>fundamental</u> ME course questions	<input type="checkbox"/> Falters with, but responds correctly to <u>fundamental</u> ME questions	<input type="checkbox"/> Clear understanding of <u>fundamental</u> ME course work	<input type="checkbox"/> Clear ability to extend know-ledge of <u>fundamental</u> ME course work	<input type="checkbox"/> Clear understanding of <u>graduate</u> ME course work
Ability to submit at least one technical conference or journal publication	<input type="checkbox"/> Work proposed <u>IS NOT</u> publishable <input type="checkbox"/> Scope clearly not at MS level	<input type="checkbox"/> Work proposed <u>may not be</u> publishable <input type="checkbox"/> Paper plan unclear	<input type="checkbox"/> Work proposed <u>should be</u> publishable <input type="checkbox"/> Clear plan to submit a paper	<input type="checkbox"/> Already submitted or published a conference paper	<input type="checkbox"/> Already submitted or published a journal article
OVERALL FINAL RECOMMENDATION (Select One Only)	<input type="checkbox"/> Recommend do not admit to MS degree program	<input type="checkbox"/> Revised proposal required to progress	<input type="checkbox"/> Accept proposal; admit to MS; present to committee; may enroll in thesis credits immediately		