**UT Department of Materials Science and Engineering (MSE)**

***MS Thesis* Learning Outcome Evaluation Form**

*The student’s committee is to agree upon and complete this form at the time of submission of the MS Written Thesis and the Oral MS Thesis Defense Presentation and turn it into the MSE Director of Graduate Studies.*

***General information:***

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ UTK ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date of Examination/Defense: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Provide an assessment of the student with respect to the following learning outcomes, based on the MS Written Thesis and the MS Oral Thesis Defense Presentation:***

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| --- | --- | --- | --- |
|  | **Circle one for each area (1 = low, 2= medium, 3 = high)** | | |
| **Outcome / Assessment** | (1) Does Not Meet Expectations | (2) Meets Expectations | (3) Exceeds Expectations |
| **(1) Clearly communicate scholarly research and results through a written thesis** | **Serious problems** exist, including any or all of the following: (1) numerous grammatical or spelling errors; (2) poor organization; and (3) **poor documentation** (citations, references, etc.). | **Adequate writing**, including the following: (1) few grammatical and spelling errors; (2) logical organization; and (3) **adequate documentation** (citations, references, etc.). | **Excellent writing**, including the following: (1) no grammatical and/or spelling errors; (2) reasoned and thoughtful organization; and (3) **good documentation** (citations, references, etc.). |
| **Outcome / Assessment** | (1) Does Not Meet Expectations | (2) Meets Expectations | (3) Exceeds Expectations |
| **(2) Clearly communicate scholarly research and results through an oral presentation** | **Serious problems** exist, including any or all of the following: (1) delivers an unsatisfactory presentation on the topic; (2) fails to provide adequate coverage of the topic; and (3) if asked, provides **insufficient insight** regarding the subject matter. | Demonstrates **satisfactory** communication skills, including: (1) delivers a satisfactory presentation on the topic; (2) provides adequate coverage of the topic; and (3) if asked, provides **sufficient insight** regarding the subject matter. | Demonstrates **exceptional** communication skills, including: (1) delivers an excellent presentation on the topic; (2) provides good coverage of the topic; and (3) if asked, provides **comprehensive insight** regarding the subject matter. |
| **Outcome / Assessment** | (1) Does Not Meet Expectations | (2) Meets Expectations | (3) Exceeds Expectations |
| **(3) Effectively analyze the literature to identify and evaluate important and related scholarly activities** | **Serious problems** exist, including the following: (1) fails to cite important literature and prior research in the topical area; and (2) if asked, demonstrates **little knowledge** of scholarly activities related to the subject matter. | Performs an **adequate** literature survey including: (1) cites some of the most important prior research regarding the topical area; and (2) if asked, demonstrates **sufficient knowledge** of scholarly activities related to the subject matter. | Performs a **comprehensive** literature survey including: (1) cites all of the most important prior research regarding the topical area; and (2) if asked, demonstrates **exceptional knowledge** of scholarly activities related to the subject matter. |
| **Outcome / Assessment** | (1) Does Not Meet Expectations | (2) Meets Expectations | (3) Exceeds Expectations |
| **(4) Demonstrate critical thinking and apply modern experimental tools and theory to solve engineering or scientific problems** | **Serious problems** exist, including the following: (1) demonstrates little knowledge of the inner workings of the experimental engineering tools employed in the topical area; and (2) demonstrates **little understanding** of the role of theory and theoretical concepts in the topical area. | Demonstrates **adequate** critical thinking, including: (1) an understanding of the basic inner workings of experimental engineering tools employed in the topical area; and (2) **sufficient insight** into the role of theory and theoretical concepts in the topical area. | Demonstrates **excellent** critical thinking, including: (1) a mastery of the basic inner workings of experimental engineering tools employed in the topical area; and (2) **impressive understanding** regarding the role of theory and theoretical concepts in the topical area. |

***Approval:***

Major Professor Signature

Minor Professor (if applicable) Signature

Committee Member Signature

Committee Member Signature