

**Assessment of Graduate Program – EMIS Department**  
**Doctor of Engineering in Engineering Management (DEEM)**  
**Student Learning Outcomes (SLO) – Praxis Defense**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

The Four SLOs on this rubric are evaluated by the chair of the praxis committee at the time of defense. The written Praxis and oral defense are used as evidence. Please score each SLO on a 1 to 4 scale roughly corresponding to grades of D/F through A.

<b>SLO</b>	<b>Unsatisfactory 1</b>	<b>Developing 2</b>	<b>Satisfactory 3</b>	<b>Exemplary 4</b>
<b>1. Student demonstrates expert knowledge of the literature in a sub area of Operations Research or Engineering Management.</b>	Student cannot adequately document previous work and his/her knowledge of subject area is weak.	Student demonstrates knowledge in most areas of his/her work but is weak in some others.	Student appropriately documents and explains previous work and the bibliography is not "review" quality.	Student thoroughly documents and explains previous work relevant to the subject area and the bibliography has "review" quality.
<b>2. Student demonstrates the ability to clearly explain and document his/her research in the discipline of Engineering Management.</b>	Student fails to present clear, logical and complete arguments.	Student clearly explains his/her work in most areas but his/her explanations are weak in some others.	Student clearly, logically and completely explains his/her work at an appropriate level.	Student clearly, logically and completely explains his/her work both in his/her technical arguments and in accompanying narratives at an accomplished and professional level.
<b>3. Student demonstrates the ability to identify research directions independently in the discipline of Engineering Management.</b>	Student does not reflect on his/her own work or make proposals for future work.	Student identifies new areas of research when prodded, but does not do so independently.	Student demonstrates the ability to identify new research directions at an appropriate level.	Student demonstrates thorough self-critique of his/her own work, consistently identifies open questions, makes proposals for future work, and appears ready for independent research.
<b>4. Student demonstrates the potential economic impact of his/her praxis in the discipline of Engineering Management.</b>	Student does not demonstrate the potential economic impact of his/her praxis.	Student gives some indication of the potential economic impact of his/her praxis, but does not give a complete analysis.	Student demonstrates the potential economic impact of his/her praxis.	Student implements his/her praxis and presents documentation of its economic impact.

**Turn this completed form into the departmental assessment coordinator.**