A. COURSE DESCRIPTION

   Credits: 3
   Lecture Hours/Week: *.*
   Lab Hours/Week: *.*
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   This course teaches the principles and practical application of Lean methods and tools as they would apply
   in various types of organizational value streams allowing for continuously improving operational
   performances that are fast, flexible, focused and organizationally inclusive for all stakeholders.
   Prerequisites: Junior status or consent of the instructor

B. COURSE EFFECTIVE DATES: 08/22/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Employee engagement strategies for inculcating Lean continuous improvement methodologies in
      support of achieving organizational performance goals and objectives.
   2. The application of Plan-Do-Check-Act and A3 methodologies to support future state value stream
      improvements.
   3. The study of organizational process value streams utilizing the current state value stream mapping
      process and analysis tools specific to identifying opportunities for future state improvement

D. LEARNING OUTCOMES (General)

   1. Practice principles of the Lean to solve technological problems.
   2. Explain the economic and environmental benefits of adopting Lean practices in a variety of
      engineering/manufacturing/construction applications.
   3. Describe the principles of Lean from a materials and processes perspective in
      engineering/manufacturing/construction applications.
   4. Analyze the components of Lean.
   5. Compare applications of the Lean used in engineering, manufacturing or construction applications.
   6. Synthesize potential applications for Lean.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted