SysEng 6542
Model Based Systems Engineering

Remaining Assessments

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Remaining Course Assessments

- Project Report – 10 Points
- Project Final Presentation – 5 points
- SysML ADAV Model – 10 Points
- Course participation (10 points)
- Final Exam – 20 points

Project Report

- Project final report (no more than 30 pages) contains the following (but not limited to):
  - Problem definition and User need analysis ("As Is" and "To Be" system mission or objectives, MOE etc...);
  - Requirements Analysis (Use case/operational scenarios, high-level activity, SM diagrams, systems requirements & traceability, etc...);
  - Functional analysis and Logical architecture;
  - Requirements traceability;
  - Synthesis of candidate physical architecture;
  - Lesson learned (compare with traditional SE practice where possible);
  - Etc…

Due Date: 6 May 2020

Project Presentation & Model

- A group presentation on the ADAV project as follow:
  - Each group will have 450 minutes, including 2 minutes for question;
  - Each group is to upload their PowerPoint presentation no later than Thursday (US time) the day before the Presentation; and
  - A short demo of the SysML model during the presentation.
  - Bonus will be given to a demonstration of auto-document generation from the SysML model; and presentation using the Cameo System Modeler.

Due Date:

- **Presentation– 3 May 2020** (ready for presentation on 4 May 2020)
- **Report & ADAV Model – 6 May 2020**

Course participation

- This assessment comprises:
  - Team work and contribution to the group project - Each student is required to submit a peer review and assessment (a form will be provided); and
  - Participation in all other course related activities.

Table 1 – Peer Assessment Table (Please exclude yourself from the assessment)

Team Member	First Name	Family Name	Overall Contribution (0-15)	Provide some rationales/comments to justify/support your assessment
1				
2				
3				
4				

Some examples to illustrate how a score is interpreted:

1) *a score of 10 indicates that the team member contributed 100% of the work allocated to him/her;*
2) *a mark of 2 indicates that the team member only contributed 20% of what was allocated to him/her; and*
3) *a score of 15 indicates that the team member contributed 150% (50% more) of what was allocated to him/her.*

Note: No submission of the peer-assessment form will result in Zero mark for your course/project contribution.

Final Exam Details

- Open book exam via ProtorU.
- You can schedule your exam session between **7 May 2020 to 13 May 2020.**
- Once you have answered all of the questions, please upload your answer on Canvas.
- In this open book exam, you are allowed to have access to:
  - Text book;
  - Lecture notes (either paper copy or electronic via Canvas); and
  - Any hand written notes.
- However, you are not allow to:
  - use any electronic equipment other than the computer that you use to undertake the exam;
  - communicate with others during the exam;
  - browse the internet;
  - **print the exam questions; and**
  - **reproduce the exam in any other formats (i.e. pdf).**

Exam Procedure

- What you need to do?
  - Revise on course materials to-date;
  - Arrive at least 15 minutes early to go through the ID verification process;
  - During the exam:
    - Password protected exam file (MS Word) will be provided to you by the Proctor;
    - The Proctor will help you to download the exam file and open it for you;
    - Then you answers the questions;
    - The exam session will be recorded and monitored by a Proctor;
  - At the end of the exam session:
    - Upload our answers onto Canvas;
    - Don't convert to pdf, submit the MS Word file; and
    - Upload your SyML model.
    - Delete all exam related files on your computer (exam file and any model); and
    - Destroy any hand written notes produced during the exam;

Note: **Please provide answers in your own words - don't cut & paste!**

(I am interested in your knowledge – Zero mark for cut and paste answers)

Exam Revision

- What is going to be in the exam?
  - Similar format to exam 1
  - Greater focus on modelling activity in Cameo
  - All materials covered to-date
  - Three set of questions:
    - Set 1: SE/MBSE Foundation
    - Set 2: SysML/OOSEM Modelling Processes
    - Set 3: Model Development using Cameo
  - Exam will be out of 120 marks (~1mark/min)
  - Good luck!

Program Completed

Missouri University of Science & Technology