



Managing Product Development and Stimulating Innovation- Essential Tools and Soft skills Workshop

Lecturer: Phillip A. Sanger, Purdue College of Technology, School of Engineering Technology, Executive Director, Center for Accelerating Technology and Innovation (USA)

Short description of the lecture (up to 10 sentences):

Project management and system engineering tools are essential to the building and supporting an innovation and entrepreneurial ecosystem. This series of lectures and workshops will focus on the essential PM tools that are needed in this challenging environment using video, hands-projects, small group discussions, and mini projects to introduce, discuss and implement these tools. The tools include work breakdown structure development, critical path identification, and quantitative conceptual design evaluation and selection. Failure modes and effects analysis will be introduced to efficiently guide and prioritize new product design efforts. The pedagogical approach to be used is a project based learning formalism in a learning space suitable for small group activities.

Syllabus of the lecture subjects (enlisted):

1. Introduction
2. Innovation in the new product development space
 - a. The Deep dive
 - b. The stage/gate process
3. Workshop using the Skyscraper team based activity
4. Organizing the Work
 - a. Work Breakdown Structure
 - b. Gantt chart development
 - c. Task based relationship vs. Time Sequence relationship
5. Project Down Selection using the quantitative “Analysis of Alternatives” approach
6. Prioritization of design activity
 - a. Failure Modes and Effects Analysis (FMEA)



Terminy wykładów			
Data	Dzień tyg.	Godzina	Sala
2015-11-05	Cz	16.15-18.00	WEiA E28
2015-11-05	Cz	18.00-21.00	702 (Gmach B)
2015-11-06	Pt	16.15-21.00	WEiA E28
2015-11-07	So	9.15-14.00	WEiA E28