

Principles and Models for System Architecture

July 15-19, 2019

Instructors: Prof. Edward Crawley, Dr. Bruce Cameron, Dr. Dov Dori

	Monday	Tuesday	Wednesday	Thursday	Friday
8:30	Introductions (Team)	Function in Architecture (Crawley)	Architectural Decisions (Cameron)	Role and Deliverables of the Architect (Crawley)	Modularity and Architecture (Cameron)
9:00	System Thinking (Crawley)				
9:30		Exercise: Build an architectural diagram Diagram (Cameron and	Exercise on Architectural Decisions (Cameron)	Exercise on Role and Deliverables of the Architect (Crawley)	
10:00		Crawley)	(Cameron)	, actineer (craimer)	DSM as a Representation, including
10:30		Concept (Crawley)	Strategy + Marketing Impact on Architecture (Cameron)	Case Study (Crawley)	Interfaces(Crawley)
11:00	Architecture Overview (Crawley)		,		DSM Exercise (Crawley)
11:30			Strategy + Marketing Influence Exercise (Cameron)		
Noon	Lunch	Lunch	Lunch	Lunch	Lunch
1:00	Form in Architecture (Crawley)	Representing Architecture in a Tradespace (Cameron)	Strategy + Marketing Influence Exercise (Cameron)	Complexity Management in OPM (Dori)	Research in Architecture (Cameron)
1:30			(Cameron)	(= 5.1,	
2:00	Exercise on Form Representation (Crawley)		Stakeholder Needs and Goals (Crawley)	Intermediate project presentations, feedback (Crawley and Dori)	Final project presentations and feedback (All)
2:30	Introduction to OPM (Dori)	Exercise: Tradespaces (Cameron)			
3:00			Exercise on Stakeholders (Crawley)		
3:30		Structural and procedural links (Dori)		DoDAF, SysML and OPM (Dori)	Course summary and awarding of certificates (All)
4:00	Exercise: Producing first architecture diagram (Cameron)		What is a model? (Dori)		(4.1)
4:30	sagram (oumoron)			Coached session on project (Crawley and Dori)	

There are evening readings and assignments;

refer to the program outline at http://shortprograms.mit.edu/sea for details