

Principles and Models for System Architecture

Schedule for participants continuing from the online MITxPro Professional Certificate Program in Architecture and Systems Engineering

July 16-19, 2019

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

	Tuesday	Wednesday	Thursday	Friday
8:30	Welcome and	Architectural Decisions	Role and Deliverables	Modularity and
	Introductions	(Cameron)	of the Architect	Architecture (Cameron)
0.00	(Cameron)		(Crawley)	
9:00				
9:30	Architecture Review :	Exercise on	Exercise on Role and	
	Function, Form,	Architectural Decisions	Deliverables of the	
40.00	Diagrams (Cameron)	(Cameron)	Architect (Crawley)	D014
10:00				DSM as a
				Representation, including
10:30	Team Formation	Strategy + Marketing	Case Study (Crawley)	Interfaces(Crawley)
	(Cameron)	Impact on Architecture	, , , , , , , , , , , , , , , , , , , ,	,,
		(Cameron)		
11:00	Exercise: Architecture			DSM Exercise
	Diagrams (Cameron)			(Crawley)
11:30		Strategy + Marketing		
		Influence Exercise		
		(Cameron)		
Noon	Lunch	Lunch	Lunch	Lunch
1:00	Concept (Crawley)	Strategy + Marketing	Complexity	Research in
	1 (),	Influence Exercise	Management in OPM	Architecture (Cameron)
		(Cameron)	(Dori)	
1:30				
2:00	Introduction to OPM	Stakeholder Needs and	Intermediate project	Final project
	(Dori)	Goals (Crawley)	presentations, feedback	presentations and
			(Crawley and Dori)	feedback (All)
2:30				
3:00	Exercise: OPM	Exercise on		
3.00	Modeling	Stakeholders (Crawley)		
3:30			DoDAF, SysML and	Course summary and
			OPM (Dori)	awarding of certificates
4:00	Actions Plans	What is a model? (Dori)		(AII)
4.00	Discussion (Cameron)	What is a moder: (Don)		
4:30			Coached session	
			on project	
		There are evening read	(Crawley and Dori)	

There are evening readings and assignments; refer to the program outline at http://shortprograms.mit.edu/sea for details