

Additive Manufacturing: From 3D Printing to the Factory Floor					
	M	T	W	R	
	23-Oct-2023	24-Oct-2023	25-Oct-2023	26-Oct-2023	
7:30 AM		Coffee & pastries available		<b>Industry Tours</b> <i>Meet buses at 7:00am</i>  <b>Option A:</b> Factory visits for scaled AM production  <b>Option B:</b> AM hardware startups and system innovators	7:30 AM
7:45 AM					7:45 AM
8:00 AM		Introduction: Recap of pre-work; Framing the potential of AM			8:00 AM
8:15 AM					8:15 AM
8:30 AM					8:30 AM
8:45 AM					8:45 AM
9:00 AM	Online pre-work distributed 2 weeks before course start (approximately 8 hours of effort)	Digital workflow for AM design and production	Case study sprint 1: Part functionalization		9:00 AM
9:15 AM					9:15 AM
9:30 AM					9:30 AM
9:45 AM			break		
10:00 AM					10:00 AM
10:15 AM			Lab exercises (two sections, alternating): Generative design for AM; Advanced equipment demonstrations	Case study design sprint 2: Prototype print design and setup	10:15 AM
10:30 AM					10:30 AM
10:45 AM					10:45 AM
11:00 AM					11:00 AM
11:15 AM					11:15 AM
11:30 AM				11:30 AM	
11:45 AM			<b>Begin printing</b>	11:45 AM	
12:00 PM		LUNCH; Introductions and networking	LUNCH; Business case modeling	12:00 PM	
12:15 PM				12:15 PM	
12:30 PM				12:30 PM	
12:45 PM				12:45 PM	
1:00 PM		Cost and value analysis	Case study design sprint 3: DfAM	1:00 PM	
1:15 PM				1:15 PM	
1:30 PM				1:30 PM	
1:45 PM				1:45 PM	
2:00 PM		break		2:00 PM	
2:15 PM		Case study kickoff		2:15 PM	
2:30 PM				2:30 PM	
2:45 PM			Case study design sprint 4: Inspection and testing	2:45 PM	
3:00 PM		"Design for AM (DfAM) in four parts"		3:00 PM	
3:15 PM				3:15 PM	
3:30 PM				3:30 PM	
3:45 PM				3:45 PM	
4:00 PM		1: Ideation	Case study design sprint 5: Revision	4:00 PM	
4:15 PM		2: Process selection		4:15 PM	
4:30 PM		3: Detailed design		4:30 PM	
4:45 PM		4: Discussion"		4:45 PM	
5:00 PM				5:00 PM	
5:15 PM		Additional case study work time (optional)	Additional case study work time (optional)	5:15 PM	
5:30 PM				5:30 PM	
5:45 PM				5:45 PM	
6:00 PM	Reception (until 730pm)			6:00 PM	
6:15 PM				6:15 PM	
6:30 PM				6:30 PM	
6:45 PM				6:45 PM	

AM break: coffee/water; PM break: coffee/water/snacks. Lunch provided. Breakfast on your own.

<https://professional.mit.edu/am3d>