

Innovation		download this page as pdf	Lesson Plan	
Session	Input	Output	Reading Material	Assignment/Exercise
1	My Intro Couse Intro Slides Fortune Slides	Student Intro		TED Talk by PattieMaes (6th Sense)
		Group Photo	Natural Ideas	Search for more ideas from nature and submit
			Hindu Mythology	Search for more tech info in mythology and submit
				"Did you know" series of videos
			Kurzweil = Futurist	"A vision of student today" video
		Why this degree	Internet and Education	Submit one page writeup on why this degree
2	Q's List out ideas		21 Century Innovation	Microsoft Technologies videos
			7 Innovations	Submit one idea based on this template
			Google Idea Contest	Idea template
			Teamwork	TED Talk by JohnnyLee_2008 (Wiimote)
				TED Talk by Keith Schacht and Zach Kaplan
	Team formation Technology update	Grouping More updates from students		
3	Thinking out of the Box Thinking Exercise Speed	Lateral thinking	Journeytotwouniverses.pps	Explore Burj Khalifa details
		Thoughts on speed/size	Scale_of_universe.swf	Watch "Stars.mp4"
			Grand Challenge for Engineering	Watch Apple videos
		Idea discussion	Presentation Tips	Prepare group presentation on Technology (15 min)
4	Bowling Machine case study	Manual vs. Automatic	Bowling Introduction	Submit a manual vs. automatic comparison
			Behind Bowling Machine	TED Talk by JohnLaGrou (Intelligent Electrical Outlet)
			Notice!!	TED Talk by David Merrill (Siftables)
			Invention Facts	TED Talk by Eric Giler (Wireless electricity)
			Technology Presentation	Individual idea refinement and detailing
5	Effective Communication		Mystery Comic.pdf	Could this mystery comic be a true story? Why?
			The other kind of solar power	Group presentation: Assigned Technical Reading (20 min)
			Sensors and Sensitivity	Watch Hexacopter.mp4 (limited text or voice)
		Idea presentation	The Connected Car	Watch IPWarrior.wmv (complex phenomenon)
6	Virtual Carpet Success Story		Entrepreneurship report	Group presentation: low margin wide market vs. high margin limited market
			Entrepreneur Resources	
				TED Talk by David Blaine (Holding Breath)
		Present Technical Reading	e4nepal-top10tips.pdf	TED Talk by Arthur Benjamin (Mathemagic)
7	Patent	Categorization into patent, trademark, copyright	np.pdf	Is your submitted idea patentable? How can you make it patentable? Is it feasible?
			university.pdf	Read WIPO Books/website
				TED Talk by John Underkoffler (Future Interface)
		Profit Margin Presentation		TED Talk by Nathan Myhrvold (Could this laser zap malaria)

8	Mid Term Review Feedback on submissions	Patent and Feasibility	Download required docs	Prepare one patent application from each group and do a prototype or concept visualization TED Talk by Theo Jansen (Kinetic Sculptures) Prepare your individual thesis/project proposal
9	Braille Tutor		bplan basic.pdf writing a bplan.pdf	Prepare business plan for the product How will you arrange money for your business? TED Talk by Dean Kamen (Prosthetic arm)
10	Information Warfare	Submit patent application Demonstrate concept	Submit thesis proposal Search internet for template	<i>Could there be a brighter side of information warfare?</i> TED Talk by David Hanson (Robots showing emotion) Improve prototype for submitting at the end of course
11	Mentoring session Tone Matrix exercise	Refinement work		TED Talk by KevinKelly (next 5,000 days of the web) Refine your thesis/project proposal
12	Feedback on proposal	Submit business plan	2019+	<i>Write your synopsis on Year 2019</i> TED Talk by Juan Enriquez (genomics and our future)
13	Open session	Interdisciplinary discussion Glimpse of Future (2019)		TED Talk by SethGodin (Standing out)
14	Feedback on business plan	Submit refined proposal Demonstrate prototype Feedback on the course	Course Feedback Form	TED Talk by Michael Pollan (Plant's eye view)

<i>Italic text</i>	electronic submission only (individual)
Colored text	individual submission plus discussion and/or presentation in class
Bold text	team work requiring submission and presentation in class
Orange background	my original work: non commercial use with proper credit permitted
Blue background	internet resources, mostly creative commons: selectively reuse
Yellow background	resources, used here strictly for academic purpose only: don't reuse
The rest	my compilations, some sources unknown: selectively reuse