1.10S: MODELING FUTURE TRANSPORTATION SYSTEMS: USER-CENTRIC, GREEN, AUTOMATED & AI-DRIVEN

	Day 1	Day 2	Day 3	Day 4	Day 5
Lecture 1 *Demand*	Course overview Intro to demand models	Route, time-of-travel and other relevant choices	Actionable heterogeneity and personalization	Demand and preferences shifts with automated mobility	Big data and new transportation services
Lecture 2 *Supply*	Road and public transport network models	Transport supply simulation	Electric mobility management	Traffic theory with AVs	Resiliency in transportation systems
Lecture 3 *Interactions*	Equilibrium and day-to-day dynamic models	Systems with on-demand and user-centric mobility	Active and green mobility systems	Simulating future automated mobility	Future urban space management
Lecture 4 *Case-Studies and AI*	Intro to AI in transportation systems	Future demand management	Urban charging location	Autonomy and its implications for society and the environment	Transport innovations: evolutions or revolutions - lecture and round table
Q&A / Group Discussion	Q&A Foundations	Q&A User-centric	Q&A Green	Q&A Automated	Q&A