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

Location: Zoom	**Day 1** **Foundations**	**Day 2** **User Centric Mobility**	**Day 3** **Green Transition**	**Day 4** **Connected and Automated Mobility**	**Day 5** **Integrated Systems**
Lecture 1 *Demand* **9:30 – 10:45**	Course overview Intro to demand models	Route, time-of-travel and other relevant choices	Behavior and electric vehicles: from ownership to charging	Demand and preferences shifts with automated mobility	Big data for transportation
Lecture 2 *Supply* **11:00 – 12:15**	Road and public transport network models	Transport supply simulation	Managing electric mobility	Future road systems and traffic theory: connected and automated vehicles	Scenario discovery
Lecture 3 *Interactions* **1:15 – 2:30**	Equilibrium and day-to-day dynamic models of demand supply interaction	Systems with on-demand and user-centric mobility	Systems with green mobility	Simulating future automated mobility	Future mobility and land-use
Lecture 4 *Foresight* **2:45 – 4:00**	Intro to AI in transportation systems	Future demand management	Alternative energies and decarbonization of road transportation	Autonomy and its Implications for society and the environment	Transport innovations: evolutions or revolutions - lecture and round table
Workshop **4:15 – 5:00**	Q&A Breakout Session	Q&A Breakout Session	Q&A Breakout Session	Q&A Demo	Q&A Project Session
Social Hours **5:00 – 6:00**	Welcome Social Hour 5:00 PM				