

Schedules for Transportation Engineering and Traffic Analysis ACE 050, Autumn 2022

Week	Date		Session	Topic	Contents	Assignment	Due
1	2022-10-31	13:15-15:00	1		Introduction to the course Transport planning – 4 step procedure: Step 1- Trip generations		
		15:15 -17:00	2		Transport planning – 4 step procedure: Step 1- Trip generations		
	2021-11-3	8:00-9:45	3		Transport planning – 4 step procedure: Step 2- Trip distributions		
		10:00-11:45	4		<i>Tutorial: trip generation and distributions</i>		
	2021-11-4	15:15 -17:00	5		<i>Public Holiday (half day)</i>		
2	2021-11-7	13:15-15:00	1	Transportation planning and modelling	Transport planning – 4 step procedure: Step 3- Travel mode choice and discrete choice model		
		15:15 -17:00	2		<i>Tutorial: Travel mode choice and discrete choice model</i>		
	2021-11-10	8:00-9:45	3		Transport planning – 4 step procedure: Step 4- Traffic assignment		
		10:00-11:45	4		<i>Tutorial: Traffic assignment</i>	Homework assignment 1	
	2021-11-11	14:15 -15:00			<i>Consulting time for questions</i>	<i>Voluntary attendance</i>	
		15:15-17:00	5		<i>Invited lecture about advanced travel choice modelling</i>		
3	2021-11-14	13:15-15:00	1		Transport planning – 4 step procedure: Step 4- large-scale traffic assignment		
		15:15-17:00	2		<i>A transport planning software for traffic assignment</i>		
	2021-11-17	8:00-9:45	3		Vertical Alignment Fundamentals and design		
		10:00-11:45	4		<i>Tutorial: Vertical Alignment design -</i>		
	2021-11-18	14:15 -15:00			<i>Consulting time for questions</i>	<i>Voluntary attendance Room: ACE Room SB-K582. Take the elevator (entrance A) to 5th floor from</i>	
		15:15-17:00	5		<i>Horizontal Alignment Fundamentals and design</i>		
4	2021-11-21	13:15-15:00	1		Intersection design – part 1: Geometric		

	2021-11-24	15:15-17:00	2		<i>Tutorial: Horizontal alignment and intersection design</i>		
		8:00-9:45	3		<i>Intersection design – part 2: Signal timing</i>		
		10:00-11:45	4		<i>Tutorial: Intersection design – signal timing</i>	Homework assignment 2	Due of homework 1
	2021-11-25	15:15 - 17:00	5		Invited lecture		
5	2021-11-28	13:15-15:00	1	Traffic flow and characteristics	<i>Traffic flow characteristics</i>		
		15:15-17:00	2		<i>Tutorial: Traffic flow characteristics</i>		
	2021-12-1	8:00-9:45	3		<i>Fundamental diagram - lecture</i>		
		10:00 -11:45	4		<i>Tutorial: Fundamental diagram</i>		
	2021-12-2	14:15 -15:00			<i>Consulting time for questions</i>	Voluntary attendance Room: ACE Room SB-K582. Take the elevator (entrance A) to 5 th floor from	
		15:15 -17:00	5		<i>Macroscopic fundamental diagram</i>		
6	2021-12-5	13:15-15:00	1		<i>Driving behavior models: Car-following and lane-change</i>		
		15:15-17:00	2		<i>Tutorial: driving behavior model</i>		
	2021-12-8	8:00-9:45	3		<i>Capacity and level of services for highways and freeways</i>	s	
		10:00-11:45	4		<i>Tutorial: capacity and level of service</i>		
	2021-12-9	14:15 -15:00			<i>Consulting time for questions</i>	Voluntary attendance Room: ACE Room SB-K582. Take the elevator (entrance A) to 5 th floor from	
		15:15-17:00	5		<i>Capacity and level of services for urban roads and intersections</i>	Homework assignment 3	Due of homework 2

7	2021-12-12	13:15-15:00	1		<i>Tutorial: capacity and level of service</i>		
		15:15-17:00	2		<i>Invited lecture about CAV on capacities</i>		
	2021-12-15	8:00-9:45	3		<i>Self-study and office hour for all questions</i>		
		10:00-11:45	4		<i>Self-study and office hour for all questions</i>		
	2021-12-16	15:15-17:00	5		<i>Office hour for all questions</i>		
	2021-12-20						<i>Due of homework 3</i>
	2023-1-9	13:30 -17:00			<i>Consulting time for questions</i>	<i>Voluntary attendance Room: ACE Room SB-K393. Take the elevator (entrance A) to 3th floor from</i>	
	2023-1-12				<i>Final exam</i>		