

Rolling Stock Summer School 2026 programme

	Monday 31 August	Tuesday 1 September	Wednesday 2 September	Thursday 3 September	Friday 4 September
	<i>campus</i>	<i>ERCT</i>	<i>ERCT/VUKV</i>	<i>campus</i>	<i>campus</i>
8:00					
9:00		08:45 Mechatronics in railway vehicles (SB)	08:15 MBS Hands-on session (IK) / Roller rig measurements (PV) 09:30 Coffee break	08:45 Testing and certification (EDG)	08:45 Group presentations
10:00		10:15 Coffee break	10:00 Roller rig measurements (PV) / MBS Hands-on session (IK)	10:15 Coffee break	
11:00		10:45 Condition monitoring (CF)	11:15 Lunch	10:45 Work on group exercise	11:15 Coffee break
12:00		12:15 Lunch	12:00 Technical visit to VUKV railway test centre (JC)	12:15 Lunch	11:45 Closing remarks (SB, SI)
13:00	13:00 Welcome and introduction (SB, SI, TM, PV)	13:00 Modelling of suspension components (CC)		13:00 Design features of bogies (OP)	12:15 Lunch
14:00	14:15 Introduction to railway vehicle dynamics (SI)	14:15 Introduction into MBS (IK) / Visit of the labs (PV)		14:15 Vehicle-track interaction (IK)	13:00 Design features of bogies (OP)
15:00	15:30 Coffee break	15:30 Coffee break		15:30 Coffee break	14:15 Vehicle-track interaction (IK)
16:00	16:00 Modelling of wheel-rail contact (IK)	14:15 Visit of the labs (PV) / Introduction into MBS (IK)		16:00 Train dynamics (TM)	15:30 Coffee break
17:00	17:15 Introduction to group exercise (SI)	17:15 Work on group exercise	17:15 Automatic train operation (IM)	16:00 Train dynamics (TM)	
18:00				17:15 Automatic train operation (IM)	
19:00	19:30 Dinner	19:30 Dinner	19:30 Dinner	19:30 Dinner	

Lecturers

CC	Carlos Casanueva, KTH (Sweden)	OP	Oldrich Polach, form. Bombardier Transportation (Switzerland)
CF	Christine Funfschilling, SNCF (France)	PV	Petr Voltr, University of Pardubice (Czechia)
EDG	Egidio Di Gialleonardo, Politecnico di Milano (Italy)	SB	Stefano Bruni, Politecnico di Milano (Italy)
IK	Ingo Kaiser, Universidad Nebrija (Spain)	SI	Simon Iwnicki, University of Huddersfield (UK)
IM	Ivo Myslivec, AŽD (Czechia)	TM	Tomáš Michálek, University of Pardubice (Czechia)
JC	Jan Čapek, VUKV (Czechia)		