

ESoA 2026

Metalenses for Antenna Applications

TIME	Monday 1 st June	Tuesday 2 nd June	Wednesday 3 rd June	Thursday 4 th June	Friday 5 th June
08:30 - 09:00	Oscar Quevedo-Teruel Brief summary of the course				
09:00 - 10:00	Oscar Quevedo-Teruel Introduction to conventional lenses	Oscar Quevedo-Teruel Introduction to geodesic lenses	Oscar Quevedo-Teruel Introduction to periodic structures	Guido Valerio MoM for analysis of periodic structures and metalenses	Astrid Algaba Lens antennas for 5G/6G communications
10:00 - 10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30 - 11:30	Oscar Quevedo-Teruel Introduction to graded-index lenses			Guido Valerio MoM for analysis of periodic structures and metalenses	Pilar Castillo Ray-tracing for radome and arrays simulations
11:30 - 12:30	Oscar Quevedo-Teruel Application of lenses	Tomas Tyc General tools for the analysis of geodesic lenses	Francisco Mesa Multimodal analysis for periodic structures and metalenses	Agnese Mazzinghi Combination of lens antennas and FSS	Van Lenses for aerospace applications in Thales
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 16:00	Francisco Mesa Ray tracing in dielectric media	Francisco Mesa Ray tracing in geodesic lenses	Celia Gomez Ansys for simulation of periodic structures Ansys for FEM simulation	Simon Horsley Introduction to transformation optics	Sören Radome and lenses for aerospace applications in Saab
14:00 - 16:00					Carolina Viganó Lens antennas for Satellite Communications in Viasat
16:00 - 16:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:30 - 18:00	Mingzheng Chen & Cristina Yepes Ray tracing lab for rotationally symmetric dielectric lenses	Mingzheng Chen & Cristina Yepes Ray tracing lab for geodesic lenses	Celia Gomez & Francisco Mesa Simulation of periodic structures with multimodal analysis	Jose Rico Fully-metallic additive manufacturing for metalenses	Oscar Quevedo-Teruel Conclusion of the course
					EXAM