

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 Advanced analysis of periodic structures	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			Agnese Mazzinghi Combination of lens antennas and FSS	Andreas Ericsson (TICRA) TICRA software for lenses and periodic structures
11:30 - 12:30	Oscar Quevedo-Teruel Application of lenses			Oscar Quevedo Lenses based on periodic structures	
12:30 - 14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 15:00	Francisco Mesa Ray tracing in dielectric media	Francisco Mesa Ray tracing in geodesic lenses	Guido Valerio MoM for analysis of periodic structures and metalenses	Simon Horsley Introduction to transformation optics	Jose Rico (Northernwaves) Fully-metallic additive manufacturing for metalenses
15:00 - 16:00			Celia Gomez (Ansys) Ansys for simulation of periodic structures Ansys for FEM simulation		Sören Poulsen (Saab) Radome and lenses for aerospace applications in Saab
16:00 - 16:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:30 - 17:30	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	Pilar Castillo Ray-tracing for radome and arrays simulations	Carolina Viganó (Viasat) Lens antennas for Satellite Communications in Viasat
17:30 - 18:30					Oscar Quevedo-Teruel Conclusion of the course

EXAM