

Short course on “Fundamentals on Antennas”

19th – 23th October, 2015

Program

Universidad Carlos III de Madrid, Campus Puerta de Toledo, Madrid

Timing	Monday 19 th october	Tuesday 20 th october	Wednesday 21 st october	Thursday 22 nd october	Friday 23 rd october
9:00-10:00 Puerta Toledo	Introduction to the course and history of antennas.	Elementary antennas and small antennas	Fundamentals on antenna arrays	Elementary antennas II: aperture-reflector antennas	Introduction to active antennas
10:00-11:00 Puerta Toledo	Fundamentals I: overview, classification and parameters.	Elementary antennas and resonant antennas	Application: arrays on communication systems DVB, mobile	High frequency antennas	Application of active and UWB antennas: SKA project
11:00-11:20 Coffee Break (20 minutes)					
11:20-12:20 Puerta Toledo	Fundamentals II: antenna parameters.	Application: Integrated antenna systems, GPS, GSM.	Elementary antennas II: aperture-reflector antennas	Application of high frequency antennas.	Questions and answers
12:20-13:20 Puerta Toledo	Fundamentals II: antenna parameters, propagation equation.	Fundamentals on antenna arrays	Elementary antennas II: aperture-reflector antennas	Fundamentals on Measurements	Test
13:20-14:30 Lunch					
14:30-16:00 Puerta T. and Leganés	Introduction to Electrodynamics and radiation fundamentals. Puerta Toledo	Fundamentals on antenna arrays Puerta Toledo	Introduction to em modeling tools. Puerta Toledo	Laboratory work: antenna analysis software Puerta Toledo	Puerta Toledo
16:00-16:20			Coffee Break (20 minutes)		
16:20-17:30			Laboratory work: antenna analysis software	Laboratory work: antenna measurement. Leganés, facilities	
17:30-18:30		Visit to Prado Museum (tbc) It starts at 17:00	Laboratory work Puerta Toledo		
20:00		Social meeting: “De tapas in Madrid”			
20:30				Social dinner	