



ADVANCED TOPICS IN COMMUNICATION AND SENSING

Enrollment year	2013/2014
Academic year	2014/2015
Regulations	DM270
Academic discipline	ING-INF/03 (TELECOMMUNICATIONS)
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	ELECTRONIC ENGINEERING
Curriculum	PERCORSO COMUNE
Year of study	2°
Period	Annual (29/09/2014 - 12/06/2015)
ECTS	3
Lesson hours	23 lesson hours
Language	ENGLISH
Activity type	WRITTEN AND ORAL TEST
Teacher	DELL'ACQUA FABIO (titolare) - 3 ECTS
Prerequisites	Basic knowledge of Remote Sensing for surveillance and Earth Observation, available from the undergraduate course "Introduzione al Telerilevamento/Introduction to Remote Sensing".
Learning outcomes	<p>This course was conceived to enrich the background of students specializing in "Space Communication and Sensing" by exposing them to specific, edge-cutting research topics. Science and technique in aerospace today progress so fast that it is impractical to keep the pace on the regular courses. This additional course will make every year a choice among the leading, applicative, hot topics, connecting the theoretical lectures with the industrial applications. Speeches are planned by both professors and individuals from industry, research and spin-offs.</p>
Course contents	The course programme changes every year as external speakers from

	<p>industry, research centres and other universities are invited according to the most up-to-date trends in research and market.</p> <p>Focus of 2013-2014 The focus of the course will be on Radar Systems, their evolution in recent years, and their future trends.</p>
Teaching methods	<p>Lectures (hours/year in lecture theatre): 23 Practical class (hours/year in lecture theatre): 0 Practicals / Workshops (hours/year in lecture theatre): 0</p>
Reccomended or required readings	<p>Slides from each talk, available at http://tlclab.unipv.it/.</p>
Assessment methods	<p>Attending classes is the intended way of acquiring the relevant contents. Though, students who happen to be unable to attend will be required to carry out a short review and report on it, the topic being one of those dealt with in the course. This may also be made in cooperation with one of the companies involved in the course.</p>
Further information	<p>Attending classes is the intended way of acquiring the relevant contents. Though, students who happen to be unable to attend will be required to carry out a short review and report on it, the topic being one of those dealt with in the course. This may also be made in cooperation with one of the companies involved in the course.</p>
Sustainable development goals - Agenda 2030	<p>\$lbl legenda sviluppo sostenibile</p>