

Course Title:	X-ray Synchrotron Radiation, a powerful tool in material science and technology for astrophysics.
Instructor	Luisa Sciortino
N of hours	10
description	Introduction to the employment of X-ray synchrotron radiation in the material science and technology for astrophysics.
contents	<ul style="list-style-type: none"> • X-ray for the structural analysis; • The synchrotron radiation in the material science and technology for astrophysics; • X-ray absorption spectroscopy (XANES and EXAFS): How to extract structural information. • X-ray photoelectron spectroscopy: the investigation of surfaces. Oxidation states, thickness of overlayers, and contamination; • How to write a proposal to obtain beamtime.