Course Title	FLUCTUATIONS INDUCED PHENOMENA
Instructor	Roberto Passante
N° of hours	15
Description	Introduction to field fluctuations in the presence of material bodies and related physical phenomena
Contents	<ul> <li>Macroscopic Quantum Electrodynamics</li> <li>Matter-assisted field quantization</li> <li>Vacuum fluctuations and Casimir effect for dispersive and dissipative materials</li> <li>Casimir-Polder interactions between atoms and dielectric macroscopic bodies</li> <li>Casimir-Polder interactions for excited atoms and many-body effects</li> </ul>