

# PROGETTO DI RICERCA

<b>Titolo della ricerca dottorale</b> <i>Title of the doctoral research</i>	Multidisciplinary Color & Lighting Design
<b>Docente proponente</b> <i>Proponent professor</i>	Maurizio Rossi
<b>Abstract</b>	<p>With the advent of solid state lighting, a new methodological approach to lighting design has definitely been affirmed. This consists in introducing the possibilities of the dynamic control of CCT (correlated color temperature) of white artificial lighting in the interiors. This new dynamism opens up a new front of investigation in the design methodology. The color design of the interior spaces today can be related to the dynamic variation of the CCT of artificial light, allowing different perceptual connotations to the same project. This also raises questions about the physiological effects that the relationship between light and color of materials can have on the human beings. The researches carried out in this area in the last 15 years has always taken into consideration only the direct interaction between light and human physiology without considering the fact that most of the light, which we are daily exposed to, is indirect lighting that depends on the interaction between lighting and colors of materials. However, to date, the Lighting Designer and the Color Designer never work together while light, color and materials, should be part of a common design process able to predict the perceptive spatial atmosphere and the way in which this affects the physiology and psychology of human beings on the basis of cultural, artistic and scientific evidence.</p> <p>The aim of the research is to identify an integrated approach to the lighting, color and material design process, in which these are jointly considered from the outset of the design of human spaces, considering the perceptive relationships that exist between the lighting and the material colors of the project. The research path will start from an analysis of the experience of color and light in the culture of the project and of the artistic experience, continuing in a process of analysis of the various phenomena that can be explained in a systematic and scientific way.</p>
<b>Parole chiave</b> <i>Keywords</i>	color, lighting, visual perception, spatial design