

## Electronic and Electrical Engineering

## Photonics in Nanosystems (ELEC0125)

## Description

This course explores the physical principles and applications of photonics in nanosystems. It first describes the optical properties of bulk materials, before going on to discuss photonics of low-dimensional semiconductors, including photonic crystals, nanocrystals and single quantum emitters. It then describes in detail how photonic techniques are used to characterize various low-dimensional structures and devices, focusing on techniques such as photoluminescence, lifetime measurements and Raman spectroscopy.

## Key information

<b>Year</b>	2019/20
<b>Credit value</b>	7 (75 study hours)
<b>Delivery</b>	PGT L7, Campus-based
<b>Reading List</b>	<a href="#">View on UCL website</a>
<b>Tutor</b>	<a href="#">Prof Tony Kenyon</a>
<b>Term</b>	Terms 1 and 2
<b>Timetable</b>	<a href="#">View on UCL website</a>

## Assessment



■ Written examination (departmentally managed): 100%

## Find out more

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