



## Specialization B

### Core courses example 1

Introduction to Quantum  
science and technology

Semiconductors devices I

Introduction to Quantum  
Computation

Solid State Systems for  
Quantum Information

## Specialization B

### Core courses example 2

Introduction to Quantum  
science and technology

Quantum Physics I

Quantum and  
Nanocomputing

Solid State Systems for  
Quantum Information



# Specialization B

## Options Example 1

Deep Learning

Semiconductor Devices II

Photonic systems and technology

Metrology

Metrology practicals

Fundamentals of Solid-State Materials

Quantum Transport in Mesoscopic Systems

Nonlinear Optics for Quantum Technologies

Semiconductor Physics and Light-Matter Interaction

Nanotechnology

Nanoelectronics

# Specialization B

## Options Example 2

Advanced Machine Learning

Properties of semiconductors and related nanostructures

Photonic systems and technology

Metrology

Metrology practicals

Atomistic and Quantum Simulations of Materials

Quantum Transport in Mesoscopic Systems

Photonic systems and technology

Molecular Quantum Dynamics

Lab in Nanoelectronics