

PHYS-605

Photonic crystals

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Cursus	Sem.	Type
Photonics		Obl.

Language of teaching	English
Credits	3
Session	
Exam	Oral
Workload	90h
Hours	42
Courses	28
Exercises	14
Number of positions	

Frequency

Every 3 years

Remark

To be scheduled after Corona virus

Content

Fabrication of photonic crystals
 Tunable photonic crystals
 Modeling of the electromagnetic properties
 Non-linear optics in photonic crystals
 High Q cavities
 New concept for passive/active devices
 Nanostructured light emitters
 Integrated optics
 2D-PC in the transmission mode
 Quantum light sources

Keywords

photonic crystals, photonic bandgap, non-linear optics, integrated optics

Learning Prerequisites**Recommended courses**

Fundamentals of semiconductor physics and optics, basic elements of electronics