



# Study Plan

## M.Sc. Photonics

Faculty of Physics

*Study plan for reference only; may be subject to change.*

L - Lectures E - Exercise L - Laboratory

<b>Semester 1</b>	ECTS	L (h)	E (h)	L (h)	Sum
Quantum Physics	4	30	30	0	60
Laser Physics	3	30	0	0	30
Wave Optics Laboratory	5	0	0	4	60
Fundamentals of Optics	4	30	15	0	45
Supplementary Subjects	4	4	0	0	60
Photonic Devices	7	30	0	4	90
Introduction to Photonics	3	15	0	15	30

<b>Semester 2</b>	ECTS	L (h)	E (h)	L (h)	Sum
Optical Waveguides and Fibres	3	30	0	0	30
Optical Information Processing	7	30	15	45	90
Numerical Methods in Optical Techniques	3	30	0	15	45
Semiconductor Optoelectronics	3	30	0	15	45
Solid State Optics	3	30	0	15	45
Supplementary Subjects	4	4	0	0	60
Contemporary Optics Seminar	2	0	30	0	30
Laser Technique	5	30	0	45	75
Physical Education	0	0	30	0	30

<b>Semester 3</b>	ECTS	L (h)	E (h)	L (h)	Sum
Quantum Photonics	4	30	15	0	45
Nonlinear optics	3	15	0	15	30
Fiber Optic Photonics	2	30	0	0	30
Diploma Laboratory	5	0	0	4	60
Presentation Techniques in Science	2	0	30	0	30
Optical Microsystems	4	30	15	15	60
Liquid Crystal Photonics	2	30	0	0	30
Social and Humanistic Subjects	2	30	0	0	30
Supplementary Subjects	4	4	0	0	60
Diploma Seminar	2	0	30	0	30

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<b>Semester 4</b>	<b>ECTS</b>	<b>L (h)</b>	<b>E (h)</b>	<b>L (h)</b>	<b>Sum</b>
Photovoltaics	2	30	0	0	30
Master Thesis	20	0	0	12	0
Social and Humanistic Subjects	2	30	0	0	30
Supplementary Subjects	4	4	0	0	60
Diploma Seminar	2	0	30	0	30