

## M.Sc. Photonics – M.Sc. Physics – M.Sc. Medical Photonics

### Criteria for choosing the “right” Master program for your personal career

	M.Sc. Photonics	M.Sc. Physics with focus on photonics	M.Sc. Medical Photonics
Admission requirements			
Degree	B.Sc./B.Eng. in Physics, Electrical Engineering or related fields	B.Sc. in Physics or equivalent degrees	B.Sc./B.Eng. in Biology, Chemistry, Physics, state exam in Medicine or equivalent degree
Skills	good knowledge of mathematics, electrodynamics and experimental physics	good knowledge in mathematics, electrodynamics, quantum mechanics, solid state physics as well as practical experience in experimental physics	good knowledge in either natural sciences or medicine
Curriculum			
Subjects covered in the curriculum	<ul style="list-style-type: none"> <li>▪ physical and technical principles of optics/photonics</li> <li>▪ experimental and theoretical approaches in photonics research</li> <li>▪ technical aspects for the development of optical systems</li> </ul>	<ul style="list-style-type: none"> <li>▪ physical principles of optics/photonics</li> <li>▪ experimental and theoretical approaches in photonics research</li> <li>▪ research aspects of optical systems</li> </ul>	<ul style="list-style-type: none"> <li>▪ interdisciplinary training in optics, physical chemistry, biology and medicine</li> <li>▪ application and development of optical methods in the field of biology and medicine</li> </ul>
Degree of Internationalization	100% internationalized, i.e. specifically equipped to support non-German students.	Partly internationalized, mainly designed for German students.	100% internationalized, i.e. specifically equipped to support non-German students.
Modules for adjustment of students with different backgrounds	Adjustment modules provide insight into optics/photonics and optical properties of materials.		Adjustment modules provide a basic training in optics/photonics and neighbouring disciplines.
Module catalogue	<a href="http://www.asp.uni-jena.de/master">www.asp.uni-jena.de/master</a>	<a href="http://www.asp.uni-jena.de/master_physics">www.asp.uni-jena.de/master_physics</a>	<a href="http://www.medpho.uniklinikum-jena.de/medpho/en/Course+schedule">www.medpho.uniklinikum-jena.de/medpho/en/Course+schedule</a>
Career opportunities			
Academia	Students are qualified to enrol in Ph.D. programs in the field of optics/photonics offered by faculties of natural sciences and engineering.	Students are qualified to enrol in Ph.D. programs in the field of physics, optics/photonics offered by faculties of natural sciences.	Students are qualified to enrol in Ph.D. programs offered by faculties of physics, chemistry and medicine.
Industry	Industry job opportunities are given in R&D in optics/photonics and engineering technologies.	Industry job opportunities are given in R&D in optics/photonics and engineering technologies.	Industry job opportunities exist in the optical sector, in the life sciences and especially at the interface between both disciplines.
Further information & contact			
Website	<a href="http://www.asp.uni-jena.de/master">www.asp.uni-jena.de/master</a>	<a href="http://www.asp.uni-jena.de/master_physics">www.asp.uni-jena.de/master_physics</a>	<a href="http://www.medpho.uniklinikum-jena.de">www.medpho.uniklinikum-jena.de</a>
Registration	Abbe School of Photonics <a href="http://www.asp.uni-jena.de/application">www.asp.uni-jena.de/application</a>	Master Service Center <a href="http://www.master.uni-jena.de">www.master.uni-jena.de</a>	Master Service Center <a href="http://www.master.uni-jena.de">www.master.uni-jena.de</a>

	<b>M.Sc. Photonics</b>	<b>M.Sc. Physics with focus on photonics</b>	<b>M.Sc. Medical Photonics</b>
Admission requirements			
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