

List of Courses for Master's, Doctoral, and Postdoctoral Students, Including Undergraduate Physics Elective Courses

Course No.	Course Title	Language	Lecture	Tutorial	Lab/Seminar	Semester	Weekly Hours	Credits	Degree	Course Lecturer
80-561	Mathematical and Systems Biology - For registration, please contact the Physics Department Secretariat.	Hebrew	2	1		B	1.5	3	B.Sc.	Prof. Amir Bashan
86-212	Hydrodynamics and Elasticity	English	3			B	1.5	3	B.Sc., M.Sc., Ph.D.	Prof. Dmitri Gutman
86-317	Chemical Physics	Hebrew	3			B	1.5	3	B.Sc., M.Sc., Ph.D.	Prof. Gil Goves
86-328	Introduction to Biology for Physicists	Hebrew	3			B	1.5	3	B.Sc., M.Sc., Ph.D.	Dr. Gal Eyal
86-365	Modern Optics and Lasers	English	3	1		A	2	4	B.Sc., M.Sc., Ph.D.	Prof. Sharon Shwartz
86-367	Lab in Quantum Optics - Students may choose to register either in Semester A or in Semester B.	English			4	A/B	2	3	B.Sc., M.Sc., Ph.D.	Prof. Patrick Sebbah
86-437	Introduction to Programming in Python for Physicists	English	2	2		A	2	4	B.Sc., M.Sc., Ph.D.	Dr. Maayane Soumagnac
86-444	Innovation in the physics industry in Israel	Hebrew	2			B	1	2	B.Sc., M.Sc., Ph.D.	Dr. Yossi Ben-Zion and Dr. Elisheva Sasson
86-605	Data science for physicists	Hebrew	3			A	1.5	3	B.Sc., M.Sc., Ph.D.	Prof. Amir Bashan
86-676	General relativity and cosmology	English	3	1		B	2	4	B.Sc., M.Sc., Ph.D.	Prof. Assaf Peer
86-677	Plasma Physics	English	3	1		A	2	4	B.Sc., M.Sc., Ph.D.	Prof. Assaf Peer
86-683	Introduction to Astronomy and Astrophysics	Hebrew	3	1		B	2	4	B.Sc., M.Sc., Ph.D.	Dr. Maayane Soumagnac
86-688	Topological Materials	English	3			A	1.5	3	M.Sc., Ph.D.	Prof. Dmitri Gutman
86-705	Advanced Lab- Introduction to Quantum Technology	Hebrew			4	B	2	4	B.Sc.	Prof. Lev Khaykovich
86-707	Light matter interaction in Quantum Mechanics	Hebrew	3	1		B	2	4	B.Sc., M.Sc., Ph.D.	Prof. Emanuele Dalla Torre
86-708	Quantum light technology measurement and Communication	Hebrew	3	1		B	2	4	B.Sc., M.Sc., Ph.D.	Prof. Sharon Shwartz
86-738	Communicating exact sciences	English	2			B	1	2	Ph.D – Mandatory	Prof. Emanuele Dalla Torre
86-755	Atomic Physics	Hebrew	3	1		B	1.5	0.5	B.Sc.	Prof. Lev Khaykovich
86-759	Modern Astrophysics	Hebrew	3			A	1.5	3	B.Sc., M.Sc., Ph.D.	Dr. Ofek Birnholtz
86-767	Advanced Workshop in Research Physics: International Physics Tournament (IPT)	Hebrew	2			A+B	2	4	B.Sc.	Dr. Igor Hanonkin
86-803	Advanced Quantum Theory	English	4	2		A	3	6	M.Sc - Mandatory, Ph.D - Elective	Prof. Efrat Shimshoni
86-818	Methods of Mathematical Physics	English	2	2		B	2	4	B.Sc, M.Sc. (Experimentalists), Ph.D- Elective M.Sc. (Theorists) - Mandatory	Prof. Nadav Shnerb
86-821	Advanced Statistical Mechanics	English	4	2		A	3	6	M.Sc - Mandatory, Ph.D - Elective	Prof. Stanislav Borov
86-830	Advanced Seminar	English	2			B	1	2	M.Sc.– Mandatory	Prof. Lev Khaykovich
86-846	Advanced Experimental Techniques	English	3	1		B	2	4	M.Sc. (Theorists), Ph.D- Elective M.Sc.(Experimentalists) – Mandatory	Prof. Aviad Frydman
86-858	Superconductivity	English	3			B	1.5	3	M.Sc., Ph.D	Prof. Jonathan Ruhman
86-888	Physics of Complex Systems	English	3			A	1.5	3	B.Sc., M.Sc., Ph.D.	Prof. Ronny Bartsch
86-9114	Colloquium in Astrophysics				2	A+B	0	0	M.Sc., Ph.D	
86-9214	Seminar in Quantum Optics				2	A+B	0	0	M.Sc., Ph.D	
86-9314	Seminar in Superconductivity				2	A+B	0	0	M.Sc., Ph.D	
86-9414	Colloquium				2	A+B	0	0	M.Sc., Ph.D - Mandatory	
86-9614	Seminar Physics of Complex Systems				2	A+B	0	0	M.Sc., Ph.D	
86-9714	Seminar Statistical Physics				2	A+B	0	0	M.Sc., Ph.D	
86-9814	Seminar in Solid State Physics				2	A+B	0	0	M.Sc., Ph.D	