

List of Courses 2023/2024

Catalog No.	Course	Lecturer	Semester	
			1st	2nd
046002	+ Design and Analysis of Algorithms	Dr. D. Drachsler Cohen / Prof. Y. moses, Dr. K. Solovey	1,2	1,2
046005	+ Computer Networks & Internet 2	Assoc. Prof. Y. Cassuto / Prof. A. Orda	1,2	1,2
046010	+ Statistical Inference	Dr. N. Weinberger	1,2	
046012	+ Int. to Flexible Organic Electronics	Prof. N. Tessler	1,2	
046042	+ Introduction to Electric Power Systems and Smart Grids	Assoc. Prof. Y. Levron	1,3	
046052	+ Quantum Optoelectronics	Assoc. Prof. E. Buks	1,2	
046055	+ Nano-Photonics	Prof. G. Bartal		1,2
046187	+ Analog Circuit Design	Mr. R. Elbhar	1,2	
046188	+ Mixed Signal Electronic Circuits	Dr. C. Jakobson		1,2
046189	+ Design of Active Networks	Dr. A. Diskin	1,2	
046192	+ Control Systems 2	Prof. N. Shimkin	1,2	
046195	+ Machine Learning	Dr. Y. Romano, Mr. S. Belogolovsky / Prof. R. Meir	2,2	2,2
046197	+ Computational Methods	Dr. K. Levy		1,2
046200	+ Image Processing and Analysis	Prof. I. Cohen / Prof. Y. Schechner	1,2	1,2
046201	+ Introduction to Random Signal Processes	Assoc. Prof. T. Michaeli	1,2	
046202	+ Data Analysis	Prof. R. Meir	1,2	
046203	+ Planning and Reinforcement Learning	Dr. A. Tamar		1,2
046205	+ Introduction to Coding Theory in Communication	Dr. U. Pereg		1,2
046206	+ Introduction to Digital Communication	Assoc. Prof. I. Tal / Prof. I. Sason	1,2	1,2
046208	+ Modern Communication Techniques	Dr. N. Weinberger	1,2	
046209	+ Structure of Operating Systems	Assoc. Prof. M. Silberstein / Assoc. Prof. I. Eyal	2,2	2,2
046211	+ Deep Learning	Assoc. Prof. D. Soudry / Assoc. Prof. D. Soudry, Assoc. Prof. J. Keshet	1,2	1,2
046212	+ Introduction to Robotics	Dr. A. Tamar	1,2	
046213	+ Mobile Robots	Dr. K. Solovey		1,2
046225	+ Physical Principles of Semiconductors	Dr. Y. Yaish / Dr. Prof. E. Yalon	1,2	1,2
046232	+ Chapters nanoelectronics	Dr. Y. Yaish	1,2	

Catalog No.	Course	Lecturer	Semester	
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046237	+ Integrated Circuits-introduction to Vlsi	Mr. E. Maayan	1,2	1,2
046240	+ Superconducting Quantum Devices	Assoc. Prof. E. Buks		1,2
046241	+ Quantum Mechanics	Assoc. Prof. E. Buks	1,2	
046243	+ Quantum Technologies	Assoc. Prof. I. Kaminer	1,2	1,2
046249	+ Electro-Optic Systems	Assoc. Prof. A. Rosenthal	1,2	
046256	+ Antennae and Radiation	Assoc. Prof. A. Epstein	1,2	
046266	+Formal Languages and Compilation	Dr. A. Zaks	1,2	
046267	+ Computer Architecture	Mr. E. Hadar / -	1,2	1,2
046271	+ Object-Oriented Programming and Design	Mr. Y. Moshe		1,2
046272	+ Distributed System Principles	Dr. N. Ben-david	1,2	
046273	+ Distributed Functional Programming	Mr .H. Gazit	1,2	
046275	+ Dinamic Binary Translation Optimization	Mr. G. Haber		1,2
046277	+ Correctness Guarantees for Software	Dr. D. Drachler-Cohen		1,2
046278	+ Computational Accelerators and Accelera	Assoc. Prof. M. Silbershtein		1,2
046279	+ High Performance Parallel Computing	Dr. Y. Aridor		1,2
046280	Prinples and Tools for Computer Security	Assoc. Prof. I. Eyal	1,2	
046326	+ Introduction to Biological Signals	Assoc. Prof. D. Soudry	1,2	
046332	+ Visual and Auditory Systems	Dr. R. Kaftory	1,2	1,2
046342	+Introduction to Fiber Optics Communication	Prof. G. Eisenstein		1,2
046733	+ Information Theory	Distinguished Prof. S. Shamai / Prof. I. Sason	1,2	1,2
046734	+ Quantum Information Theory	Dr. U. Pereg	1,2	
046745	+ Digital Signal Processing	Assoc. Prof. G. Gilboa	1,2	
046746	+ Algorithms and Application	Dr. S. Korman / Prof. A. Levin	1,2	1,2
046747	+Deep Learning For Speech Signals	Assoc. Prof. J. Keshet	1,2	
046773	+ Electroopt Semiconduc Devices-Detectors	Prof. Y. Nemirovsky	1,2	
046831	+ Introduction to Medical Imaging	Assoc. Prof. G. Gilboa		1,2
046853	+ Advanced Architecture of Micro-Processors' Systems	Prof. U. Weiser, Assoc. Prof .F. Gabbay	1,2	
046868	+ Foundations of Stochastic Processes	Prof. R. Atar		1,2

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046880	+Cad of Vlsi Systems	Mr. E. Zahavi	1,2	
046881	+Hardware Formal Verification	Dr. Z. Hana		1,2
046887	+Introduction to Departmental Research	Assoc. Prof. Y. Birk		1
046903	+ RF CMOS Integrated Circuits	Assoc. Prof. E. Cohen		1,2
046918	+ Physical Design Automation of Vlsi Systems	Dr. K. Moiseev		1,2
046968	+ Micromachining and Micro-electromechanical Systems	Prof. Y. Nemirovsky		1,2
047006	+ Advanced Topics 6	Dr. O. Reinhardt		1
048000	Computational Photography	Prof. A. Levin	2	
048002	Geometric Data Processing and Analysis	Assoc. Prof. R. Talmon		2
048010	Advance Topic in Deep Learning: Subject: Transformers	Assoc. Prof. J.Keshet	2	
048050	Carbon Nanotubes Graphene and Van Der	Dr. Y. Yaish		2
048051	Energy Dissipation in Electronic Devices	Dr. E. Yalon		2
048080	Selected Topics in Computer Systems- Advanced Software/Hardware Architectures	Assoc. Prof. M. Silbershtein	2	
048100	Reliability in Modern Mechine Learning	Assoc. Prof. Y. Romano		2
048102	Selected topics in deep learning on graphs	Dr. H. Marom	2	
048103	Measuring and sensing people with cameras	Prof. L. Zelnik-Manor		2
048104	Monte-carlo For Computation	Prof. N.Shimkin		2
048150	Probability in High Dimensions for Data	Dr. N. Weinberger		2
048200	Topics in Robotics: Multi-robot Systems	Dr. K. Solovey		2
048201	Robot Learning	Dr. A. Tamar		2
048250	Network Coding For Advanced Information	Assoc. Prof. A. Cohen		2
048712	Electro-optics Laboratory 2	Prof. M. Horowitz	4 Lab	4 Lab
048715	No Regrets about no regret learning	Prof. S. Mannor	2	
048720	An Advanced Course in Machine Learning 1	Dr. A. Tamar		2
048722	Adv.topics in Systems Learning Control 3	Dr. K. Levy	2	
048726	An Advanced Course in Control and System	Dr. K. Solovey		2
048732	Advanced Topics in Wave Theory 1: Foundations of electromagnetic metasurfaces	Assoc. Prof. A. Epstein		2
048747	Laboratory in Biological Systems and Signals	Faculty active in this field	4 Lab	4 Lab

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048816	Signal Processing Laboratory	Faculty active in this field	4 Lab	4 Lab
048828	Array Signal Processing and Analysis	Prof. I. Cohen	2	
048836	The Hfic Lab	Assoc. Prof. E. cohen	4 Lab	4 Lab
048843	Exploration and Exploitation	Prof. R. Meir		2
048852	Advanced Energy Conversion Laboratory	Assoc. Prof. Y. Levron	4 Lab	4 Lab
048877	Hardware and Software Laboratory	Faculty active in this field	4 Lab	4 Lab
048888	Blockchain and Cryptocurrency protocols	Assoc. Prof. I. Eyal	2	
048889	Machine Learning for Computer Networks	Prof. I. Keslassy		2
048890	Seminar in Correctness Guarantees	Dr. D. Drachsler-Cohen	2	
048892	Blockchain Algorithms	Dr. O. Rottenstreich	2	
048907	Optical Propagation in Scattering Media	Assoc. Prof. A. Rosenthal	2	
048922	Vision, Image Structure and Computer Vision Laboratory	Faculty active in this field	4 Lab	4 Lab
048930	Quantum aspects in electron microscopy	Assoc. Prof. I. Kaminer	2	
048933	Communication Laboratory	Faculty active in this field	4 Lab	4 Lab
048940	Advanced topics in digital medical electronics	Dr. D. Lange	2	
048954	Statistical Methods in Image Processing	Assoc. Prof. T. Michaeli		2
048966	Microelectronics Laboratory	Faculty active in this field	4 Lab	4 Lab
048967	Computer Networks Laboratory	Faculty active in this field	4 Lab	4 Lab
048976	Laboratory in Parallel Systems	Faculty active in this field	4 Lab	4 Lab
048979	Advanced Topics in probability and random processes	Prof. R. Atar		2
048980	Des. Amd Manag. of Noncooper. Com. Nets.	Prof. A. Orda	2	
048989	Power System Dynamics	Assoc. Prof. Y. Levron		2
048996	Waves in Periodic Structures	Prof. L. schachter	2	
049005	Control Topics Laboratory	Faculty active in this field	4 Lab	4 Lab
049006	Electromagnetic Waves Laboratory	Faculty active in this field	4 Lab	4 Lab
049026	Knowledge and Games in Distributed Sys.	Prof. Y. Moses		2
049032	Advanced Topics in Communication	Dr. U. Pereg		2
049053	Machine Learning Laboratory	Faculty active in this field	4 Lab	4 Lab

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049056	Shape Analysis	Prof. A. Tal		2
049061	Polarization Codes	Assoc. Prof. I. Tal		2
049062	Imaging and three-dimensional reconstruction	Prof. Y. Schechner		2
049063	Information Storage Devices	Assoc. Prof. Y. Cassuto		2
049064	Variational Methods in Image Processing	Assoc. Prof. G. Gilboa	2	