

List of Courses 2021/2022

Catalog No.	Course	Lecturer	Semester	
			1st	2nd
046002	Design and Analysis of Algorithms	Prof. Y. Moses/ Prof. D. Cohen	1,2	1,2
046005	Computer Networks & Internet 2	Prof. Y. Cassuto/ Prof. A. Orda	1,2	1,2
046012	Introduction to Organic Materials and Devices	Prof. N. Tessler	1,2	
046042	INTRODUCTION TO ELECTRIC POWER SYSTEMS and SMART GRIDS	Prof. Y. Levron	1,3	
046055	NanoPhotonics	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	Mr .A. Diskin		1,2
046195	+ Machine Learning	Mr. Omer Yaeir/ Prof. K.Levy/ Dr. D.Soudry	2,2	2,2
046197	+ Computational Methods	Prof. K. Levy		1,2
046200	+ Image Processing and Analysis	Prof. I. Cohen/ Assoc. Prof. Y. Schechner	1,2	1,2
046201	+ Introduction to Random Signal Processes	Prof. T. Michaeli	1,2	
046202	+ Data Analysis	Prof. R.Meir	1,2	
046204	+ Analog Communication	Prof. I. Tal	1,2	
046205	+ Introduction to Coding Theory in Communication	Dr. N.Weinberger		1,2
046206	+ Introduction to Digital Communication	Assoc. Y. Steinberg	1,2	1,2
046208	+ Modern Communication Techniques	Dr. N. Weinberger		1,2
046209	+ Structure of Operating Systems	Assoc. Prof. M.Silbersein / Dr. I. Eyal	2,2	2,2
046212	+ Introduction to Robotics	Prof. A. Tamar	1,2	
046216	+ Microwaves	Prof. A. Epstain		1,2
046225	+ Physical Principles of Semiconductors	Prof. E. Yalon	1,2	1,2

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046232	Chapters nanoelectronics	Assistant Prof. Y. Yaish	1,2	
046237	+ Integrated Circuits	Mr. E. Maayan	1,2	1,2
046239	+ Laboratory Courses in Nano-Electronics	Prof. N. Tessler		4L
046240	Superconducting Quantum Devices	Associate Prof. E. Buks		1,2
046242	+ Stat.physics Fluctuations and Noise	Associate Prof. E. Buks	1,2	
046243	Quantum Technologies	Prof. I. Kaminer	1,2	1,2
046249	+ Electro-Optic Systems	Prof. A. Rosenthal		1,2
046256	+ Antennae and Radiation	Prof. A. Epstain	1,2	
046265	+ Advanced Circuits and Architectures	Prof. S. Kvatinsky	1,2	
046266	+ Compilation Methods	Dr. E. Zaks	1,2	
046267	+ Computer Architecture	Dr. P. Gabay	1,2	1,2
046271	+ Object-Oriented Programming and Design	Mr. Y. Moshe		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	Prof. D. Drachsler-Cohen	1,2	
046278	Computational Accelerators and Accelera	Prof. M. Silbershtein		1,2
046280	Prinples and Tools for Computer Security	Prof. I. Eyal	1,2	
046326	+ Introduction to Biological Signals	Dr .D. Soudry	1,2	
046332	+ Visual and Auditory Systems	Prof.M. Porat/ Dr. R. Kaftory	1,2	1,2
046733	+ Information Theory	Prof. S. Shamai/ Prof. Y.Steiberg	1,2	1,2
046745	+ Digital Signal Processing	Prof. G. Gilboa	1,2	
046746	+ Algorithms and Application	Prof. A. Levin	1,2	
046773	+ Electroopt Semiconduc Devices-Detectors	Prof. Y. Nemirovsky	1,2	

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046831	+ Introduction to Medical Imaging	Assis. Prof. G. Gilboa		1,2
046853	+ Advanced Architecture of Micro-Processors' Systems	Prof. U. Weiser	1,2	
046868	+ Foundations of Stochastic Processes	Prof. R. Atar		1,2
046880	+Cad of Vlsi Systems	Dr. L. Yavitz	1,2	
046903	+ RF CMOS Integrated Circuits	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
048000	Computational Photography	Prof. A. Levin		2
048025	Macroscopic Quantum Electrodynamics	Prof. I. Kaminer	2	
048050	Carbon Nanotubes Graphene and Van Der	Assistant Prof. Y. Yaish		2
048051	Energy Dissipation in Electronic Devices	Prof. E. Yalon		2
048075	Adv. Topics in Computer Engineering 1	Prof. Y.Moses/ T.Mizrchi	2	
048710	Advanced Topics	Prof. I. Goykhman	2	
048712	Electro-optics Laboratory 2	Prof. M. Horowitz	4 Lab	4 Lab
048716	Advanced Topics in systems, learning, Control Theory 2	Prof. N. Weinberger	2	
048717	Adv.topics in Systems Learning Control 3	Prof. K. Levy		2
048718	Adv. Topics in Sys. Learning , Control	Prof. S. Mannor + Prof. A. Tamar	2	
048719	Adv.topics in Systems Learning , Control	Prof. Y. Romano		2
048732	Advanced Topics in Wave Theory 1	Prof. A. Epstain		2
048747	Laboratory in Biological Systems and Signals	Prof. M. Porat	4 Lab	4 Lab
048750	Advanced Topics in Computer Architecture	Prof. Y. Estion		2
048812	Oxide Physics and Devices	Assistant Prof. L. Kornblum		2
048816	Signal Processing Laboratory	Faculty active in this field	4 Lab	4 Lab

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048823	Analytical Methods in Wave Theory 1	Prof. A. Epstain		2
048828	Array Signal Processing and Analysis	Prof. I. Cohen	2	
048836	The Hfic Lab	Assitant Prof. E. cohen	4 Lab	4 Lab
048843	Exploration and Exploitation	Prof. R.Meir		2
048848	Advanced Topics in Electro Optics 1	Prof. M. Orenstein	2	
048852	Advanced Energy Conversion Laboratory	Prof. Y. Levron	4 Lab	4 Lab
048860	Work Pictures	Prof.M. Porat		2
048865	Networks, graphs and signal processing	Prof. R. Talmon		2
048866	Computer Communication Networks 2	Prof. O. Rottenstreich	2	
048877	Hardware and Software Laboratory	Faculty active in this field	4 Lab	4 Lab
048879	Seminar in Vlsi Architecture	Prof. S. Kvatinsky		2
048888	Blockchain and Cryptocurrency protocols	Prof. I. Eyal		2
048889	Machine Learning for Computer Networks	Prof. I. Keslassy		2
048890	Seminar in Correctness Guarantees	Prof. D. Drachsler-Cohen		2
048891	Hardware Security-from Theory to Practic	Visiting Prof. A. Mendelson	2	
048922	Vision, Image Structure and Computer Vision Laboratory	Faculty active in this field	4 Lab	4 Lab
048931	Information Measures and Aplictions	Prof. I. Sason	2	
048933	Communication Laboratory	Prof. s. Shamai	4 Lab	4 Lab

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048934	Coded Communications	Distinguished Prof. S. Shamai (Shitz)	2	
048951	Statistical Models in Optical Comm.	Assoc. Prof. M. Nazarathy		2
048954	Statistical Methods in Image Processing0	Associate 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
048972	Advanced Topics in Image Structure	Assoc. Prof. L. Zelnik-manor		2
048976	Laboratory in Parallel Systems	Faculty active in this field	4 Lab	4 Lab
048978	Radiation Sources Based on Elect. Beams	Prof. L. Schachter		2
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	Associate Prof. Y. Levron		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
049011	Advanced Topics in Computing 2	Prof. I. Keidar		2
049018	Advanced Topics in Computer Systems 3	Prof. M. Silbershtein	2	
049026	Knowledge and Games in Distributed Sys.	Prof. Y. Moses	2	
049030	Topics in Storage	Assoc. Prof. Y. Birk		2
049036	Advanced Topics in VLSI 1	Prof. Emeritus R. Ginosar/ L.Yavitz	2	
049053	Machine Learning Laboratory	Faculty active in this field	4 Lab	4 Lab
049056	Shape Analysis	Prof. A. Tal		2
049061	Polarization Codes	Assoc. Prof. I. Tal		2
049062	imaging and three-dimensional reconstruction	Assoc. Prof. Y. Schechner	2	
049063	Information Storage Devices	Prof. Y. Cassuto	2	

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049064	Variational Methods in Image Processing	Prof. G. Gilboa	2	
108324	Elements of Modern Analysis for Electri.	N. Volansky	2.5	
108327	Functional Analysis for E.e.	B. Solel		2.5