



Researchers at ORT Braude College

Fields of Research & Development

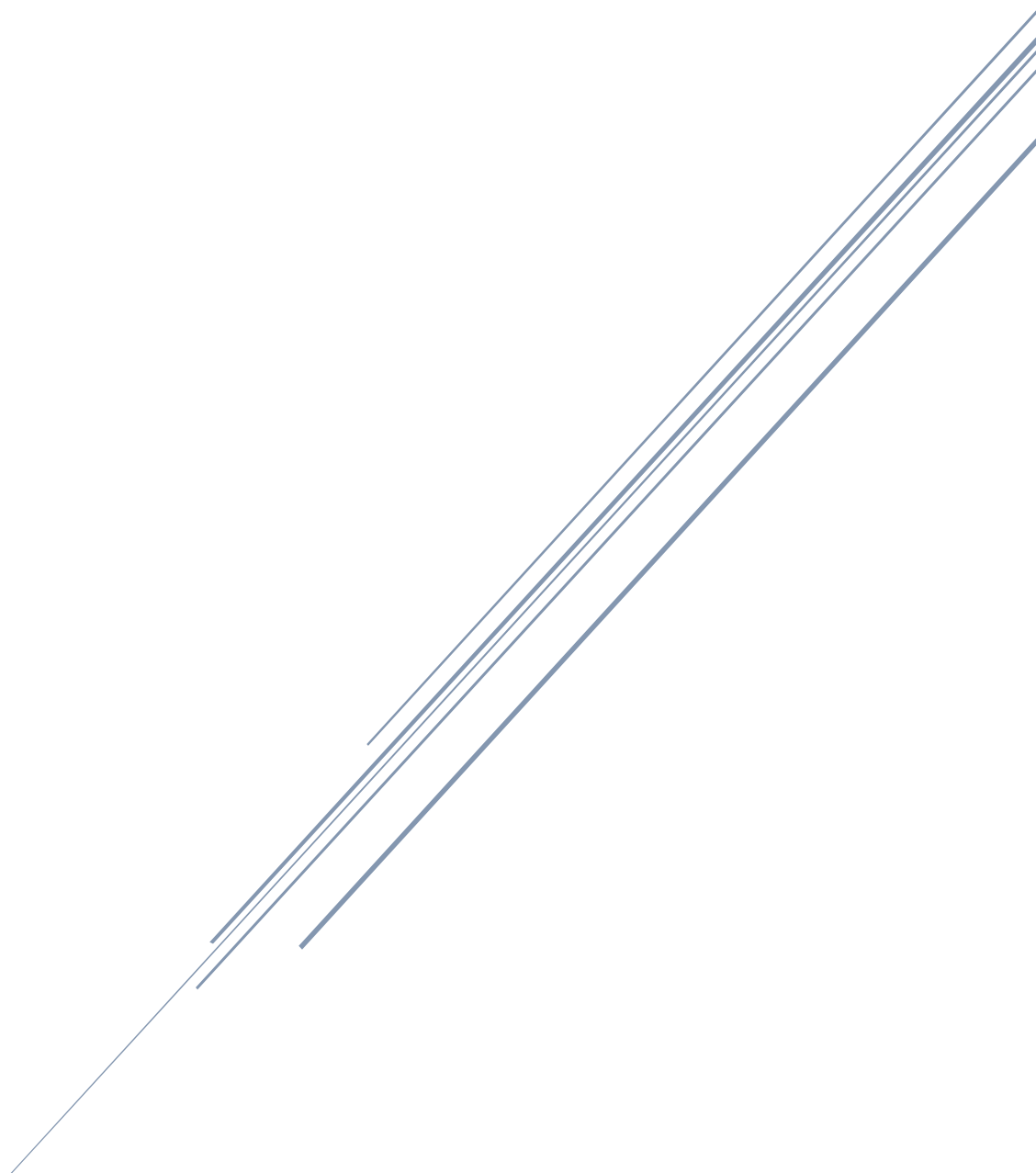


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Administration & Research Centers

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Department of Biotechnology Engineering

Name	Fields of Research	Email	Phone
Dr. Michal Amit	<ul style="list-style-type: none">◆ In vitro assay for testing cells sprouting to biomimetic glycosaminoglycan analogues;◆ Drug screening for anticancer reagents;◆ Pluripotent stem cells (PSCs);◆ Suspension culture of PSCs;◆ Mass production of PSCs;◆ Culture medium development;◆ Stem cells differentiation;◆ Derivation of embryonic stem cell lines	mamit@braude.ac.il	+972-4-8291080 +972-5-7291683
Dr. Rivka Weiser Biton	<ul style="list-style-type: none">◆ Nutraceutical Antioxidants for Therapeutic Uses;◆ Unique anti-cancer materials with ability to repress cancer cells proliferation In Vitro;◆ Production of a human bacterial microflora suppressing growth of candida;◆ The Antioxydative properties of Stevia rebaudiana	rivkaw@braude.ac.il	+972-4-9901875
Assoc. Prof. Maria Grozovski	<ul style="list-style-type: none">◆ Lipid metabolism, oxidative stress, metabolic syndrome;◆ Biochemical aspects and treatment of fatty liver disease;◆ Relationship between metabolic syndrome, Cognition and oxidative stress;◆ Development of experimental model of non-alcoholic fatty liver and hypercholesterolemia;◆ Copper oxide nanoparticles for hypercholesterolemia treatment	mgrozovs@braude.ac.il	+972-4-9086470



Name	Fields of Research	Email	Phone
Dr. Nicholas Harris	◆ Small molecule drugs and biological (peptide) drugs for the treatment of inflammatory diseases	nharris@braude.ac.il	+972-4-9086472
Dr. Ilana Kepten	◆ Applied Ethics in Biotechnology and emerging /innovative technologies	ikepten@braude.ac.il	+972-4-9901828
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Dr. Dafna Knani	◆ Molecular modeling of materials and biomaterials using quantum and molecular mechanics and dynamics (Forcefield) methods; ◆ Molecular modeling of protein – ligand interactions, especially enzyme-catalyzed polymerization reactions	dknani@braude.ac.il	+972-4-9901757
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Name	Fields of Research	Email	Phone
Assoc. Prof. Sarit Sivan	<ul style="list-style-type: none">◆ Biomaterials and biomimetics for tissue regeneration and replacement of intervertebral disc and cartilage;◆ Biophysics of connective tissue in health, pathology and ageing;◆ Lubrication in synovial joints;◆ Multi-functional systems for tissue engineering and drug delivery;◆ Immobilization of biomolecules	ssivan@braude.ac.il	+972-4-9901924
Dr. Iris Sonia Weitz	<ul style="list-style-type: none">◆ Synthesis and characterization of functionalized nanomaterials for multimodality medical imaging and therapeutic applications;◆ Shape controlled synthesis and directed self-assembly of nanoparticles by surface modifications	irisweitz@braude.ac.il	+972-4-9901895



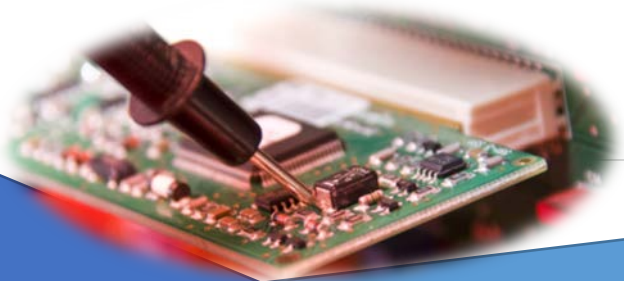


Department of Electrical & Electronic Engineering

Name	Fields of Research	Email	Phone
Prof. Eduard Eitelberg	<ul style="list-style-type: none">◆ System interaction;◆ Authority and accountability;◆ Gas-turbine -- 3-phase generator frequency and voltage control;◆ Monetary and fiscal control policies;◆ Barometric and GPS data fusion for optimal aircraft height estimation	Eitelberg@braude.ac.il	+972-4-9901826
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Dr. Danny Kottick	<ul style="list-style-type: none">◆ Development of Power Quality Monitoring Systems;◆ Analysis of power quality data;◆ Development of a new method for direct temperature sensing of underground high voltage power cables;◆ Performance evaluation of electric and hybrid vehicles;◆ Evaluation of energy storage devices;◆ Development of methods for determination of high voltage insulators condition;◆ Dynamic phenomena associated with electrical power systems	kotek@braude.ac.il	+972-4-9906437



Name	Fields of Research	Email	Phone
Dr. Nissim Sabag	<ul style="list-style-type: none">◆ Engineering Education, Digital Electronic Projects Design;◆ Project Based Learning, Using Animation to Promote Learning, Active learning;◆ Misconceptions in engineering education;◆ Learning styles	nsabag@braude.ac.il	+972-4-9901942
Dr. Albert Sabban	<ul style="list-style-type: none">◆ Electromagnetic waves, Microwave RF Engineering;◆ Antenna Systems, Wearable Communication Systems and antennas;◆ RF Medical applications;◆ Energy Harvesting;◆ Systems Engineering	sabban@braude.ac.il	+972-4-8759111
Dr. Vladislav Shteeman	<ul style="list-style-type: none">◆ Photonic crystals;◆ Coupled-mode theory of parallel waveguides and its application to photonic crystal devices;◆ Numerical and analytical methods of analysis of large-scale photonic crystal devices;◆ Integrated and guided wave optics	vladsh@braude.ac.il	+972-4-908-6480
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Department of Industrial Engineering & Management

Name	Fields of Research	Email	Phone
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Name	Fields of Research	Email	Phone
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Dr. Hussein Naseraldin	<ul style="list-style-type: none">◆ Supply chain design, management, control, and optimization;◆ Closed-loop supply chain;◆ Location analysis;◆ Price discounts;◆ Procurement strategy and management;◆ Energy management;◆ Smart-Grid;◆ Additive Manufacturing and 3D Printing and its impact on Industrial Engineering	nhussein@braude.ac.il	+972-4-9901977
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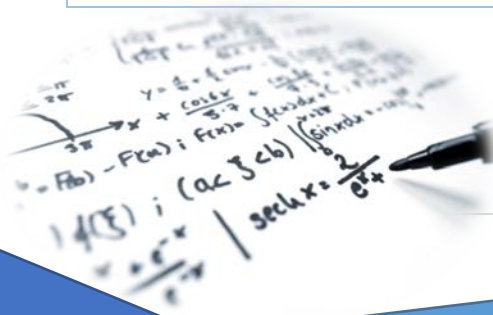
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Department of Mathematics

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Dr. Mark Berman	<ul style="list-style-type: none"> ◆ Group Theory, Lie methods; ◆ Combinatorics 	berman@braude.ac.il	+972-4-9901951
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Name	Field of Research	Email	Phone
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Department of Mechanical Engineering

Name	Field of Research	Email	Phone
Dr. Samy Abu-Salih	<ul style="list-style-type: none">◆ Machining Processes;◆ Modeling of Micro-Electro-Mechanical Systems;◆ Modeling of the Chemo-Electro-Mechanical Response of Micro Hydrogel Structures	samyas@braude.ac.il	+972-4-9901888
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Dr. Ayelet Goldstein	<ul style="list-style-type: none">◆ Fluid Mechanics;◆ Multi-Phase flow;◆ Fields on surfaces;◆ Super-Symmetric;◆ Thermodynamics	ayelet@braude.ac.il	+972-4-9901767



Name	Field of Research	Email	Phone
Prof. Irena Gotman	<ul style="list-style-type: none">◆ Materials for load-bearing orthopaedic devices – design, processing, surface modification and microstructure characterization;◆ Self-propagating High-temperature Synthesis (SHS)	irenag@braude.ac.il	+972-4-9086467
Assoc. Prof. Ehud Kroll	<ul style="list-style-type: none">◆ Design theory and methodology;◆ Methods for conceptual and systems design;◆ Design cognition;◆ Design for manufacturing, assembly and disassembly;◆ Design education	kroll@braude.ac.il	+972-4-9086466
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Name	Field of Research	Email	Phone
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Dr. Avi Weiss	<ul style="list-style-type: none">◆ Kinematics and dynamics of mobile and motion platforms with emphasis on the design optimization perspective;◆ Mobility enablement;◆ Cognitive mechanics;◆ Jumping biomimetic robots;◆ and Dynamics of rigid bodies in magnetic fields	avi@braude.ac.il	+972-4-9901736
Mr. Yitzchak Yifrach	<ul style="list-style-type: none">◆ Machining Processes;◆ Analysis of structures using finite element method;◆ Fracture mechanics	yifrach@braude.ac.il	+972-4-9901903





Department of Physics & Optical Engineering

Name	Field	Email	Phone
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Dr. Shimshon Kallush	<ul style="list-style-type: none"> ◆ Interaction of light & matter; ◆ Analytical and simulations of dynamics of atoms & molecules in external fields; ◆ (Quantum) Control of atomic & molecular systems; ◆ Methods of dynamical simulations; ◆ Molecular Cooling; ◆ Alignment and Orientation of Media 	shimshonkallush@braude.ac.il	+972-77-4669773
Prof. Steve Lipson	<ul style="list-style-type: none"> ◆ Optics 	sglipson@physics.technion.ac.il	+972-4-9901841
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Dr. Eli Raz	<ul style="list-style-type: none"> ◆ Optics; ◆ Optical Interferometry 	eliraz@braude.ac.il	+972-4-9901991



Name	Fields of Research	Email	Phone
Dr. Atef Shalabney	<ul style="list-style-type: none">◆ Plasmonics and Surface Plasmon Polaritons;◆ Optical Bio sensing and molecular detection;◆ Surface enhanced IR spectroscopy (SEIRA);◆ Surface enhanced Raman Scattering (SERS);◆ Light-matter strong coupling and consequences on chemistry and biology	shalabney@braude.ac.il	+972-4-9901980
Dr. Meni Shay	<ul style="list-style-type: none">◆ Experimental High Temperature Superconductivity using Raman Scattering	menishay@braude.ac.il	+972-4-9901992





Department of Software Engineering

Name	Fields of Research	Email	Phone
Dr. Renata Avros	<ul style="list-style-type: none"> ◆ Data Mining; ◆ Text Mining; ◆ Clustering theory; ◆ Generalized convolution theory 	r_avros@braude.ac.il	+972-4-9901862
Assoc. Prof. Zeev Barzily	<ul style="list-style-type: none"> ◆ Data Mining; ◆ Text Mining; ◆ Clustering theory 	zbarzily@braude.ac.il	+972-4-9901861
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Mr. Alex Frid	<ul style="list-style-type: none"> ◆ Biomedical Signal Processing; ◆ Machine Learning; ◆ Neuro Computation; ◆ Brain Science; ◆ Speech Analysis; ◆ Auditory events Spotting; ◆ Anomaly Detection 	afrid@braude.ac.il	
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Name	Fields of Research	Email	Phone
Dr. Katerina Korenbla	<ul style="list-style-type: none">◆ Bioinformatics cluster analysis of microarray data phylogenetic trees construction modeling and simulation of biological systems;◆ Quantitative modeling and simulation of distributed systems;◆ Formalization of UML (Unified Modeling Language) specifications;◆ Temporal logics, verification and validation of computer systems	katerina@braude.ac.il	+972-4-9901845
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Dr. Benjamin Mounits	<ul style="list-style-type: none">◆ Coding Theory;◆ Optimization;◆ Applications of Discrete Mathematics to Problems in Computer Science and Information Theory	mounits@braude.ac.il	+972-4-9901754
Dr. Orna Muller	<ul style="list-style-type: none">◆ Computer Science Education;◆ Instructional Design◆ Algorithmic Problem-Solving Skills;◆ Development and Evaluation of Programs for Enhancing Students' Learning.	ornamu@braude.ac.il	+972-4-9901809



Name	Fields of Research	Email	Phone
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