

R&D Center for Increasing Productivity and Innovation (CIPIN)

ORT Braude College of Engineering, Karmiel



The R&D Center for Increasing Productivity and Innovation relies on researchers from the Department of Industrial Engineering and Management with researchers from other departments at ORT Braude College.

The Center is a focal point for productivity and innovation in northern Israel, based on the knowledge and experience of staff members and lecturers. It integrates day-to-day research at the college with collective experience gained from applying knowledge in factories and organizations, utilizing projects and internships of the students under researcher guidance.

The center applies advanced methodologies for the benefit of metal, plastic, food, textile, wood, printing industries, and others.

The Center can work with funds from the industrial companies and/or partial funds of the Israel Chief Scientist.

■ Multidisciplinary team

- **Dr. David Bentolila** – Head, R&D Center for Increasing Productivity and Innovation
- **Prof. Shuki Dror** – Head, master's program in System Engineering
- **Dr. Hussein Naseraldin** – Head, master's program in Industry and Management Engineering
- **Dr. Meir Tahan** – Systems engineering
- **Eng. Avigdor Schreiber** – Industry internship coordinator and lecturer
- **Mr. Yigal Margalit** – Mechanical Engineering
- **External researchers and lecturers**
- **Collaboration with relevant R&D centers**

■ Implemented methodologies

- Modeling factory/warehouse systems
- Optimizing and modeling human/machine assignments
- Optimizing and modeling services/production/distribution systems
- Improving inventory forecasting and supply chain
- Statistical process control for quality problems
- Designing and operating transportation/storage logistics and assembly/production/packaging lines
- Human engineering, organizational behavior, and compensation methods
- Knowledge management and data mining

■ College projects with student collaboration

- Implementing methods for reducing production defects
- Improving distribution systems
- Inventory management policies
- Improving purchasing processes
- Machine assignment planning with MRP
- Active security for vehicles
- Quality control automation of medicines
- Aid systems for the disabled

■ Advantages of the center

- integration of highly experienced lecturers
- Integration of students in research
- Request of relevant funds from Israel Chief Scientist
- Aligned with the college's implementation company, Ofek Eshkolot Ltd.

Ofek Eshkolot provides the means for implementing advanced technologies and research developed at ORT Braude College. The Ofek Eshkolot company directs staff towards applied research opportunities, creation of intellectual property (such as patents), and commercialization. Ofek Eshkolot bridges the gap between the business world and academia. The company is collaborating with Fraunhofer – a large European research organization – and invites additional local and worldwide industrial companies to participate in joint research.

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