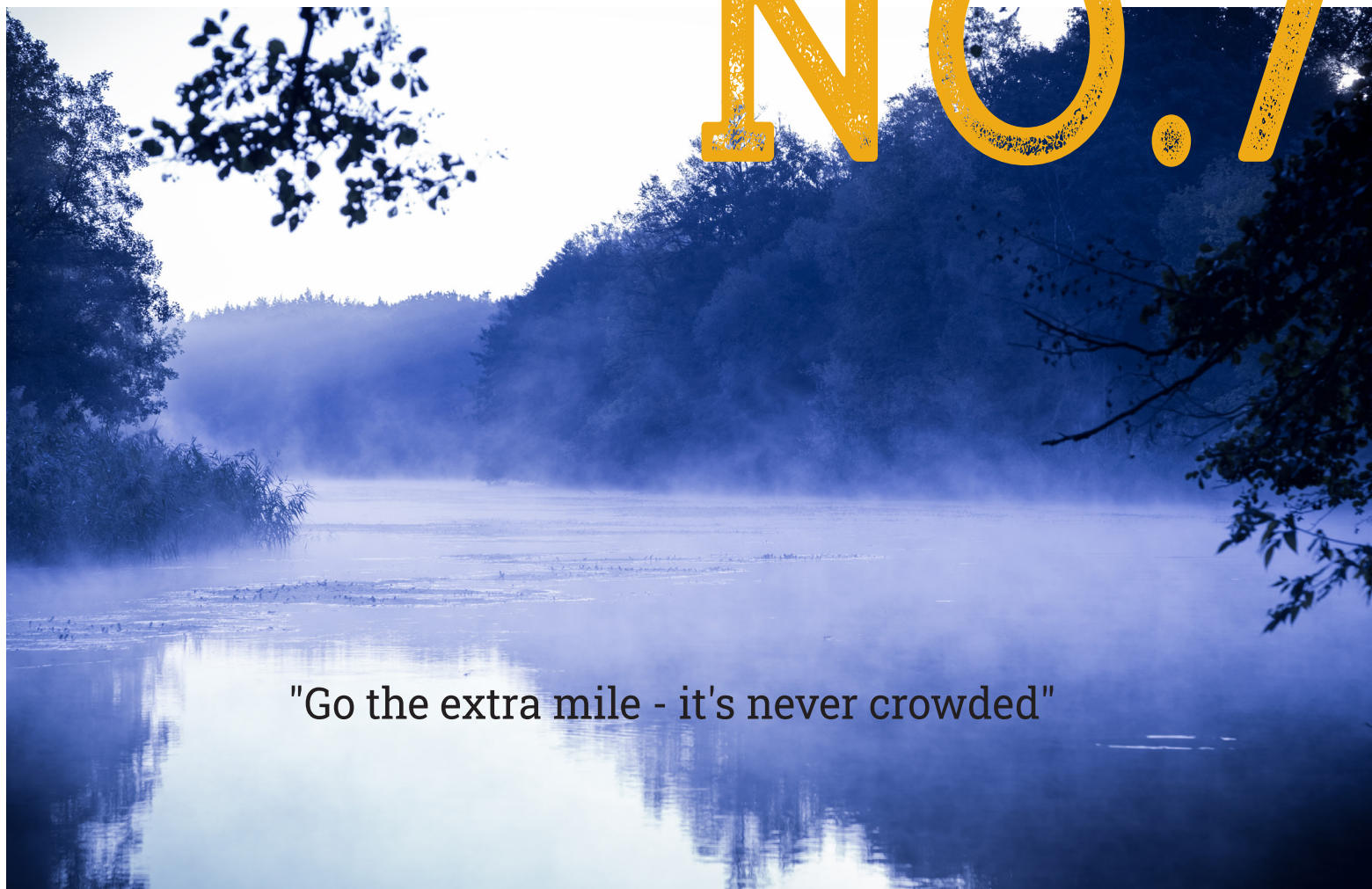


# NO.7



"Go the extra mile - it's never crowded"

## Idan Technology's 2022 Newsletter

Idan Technology celebrated its eighth birthday in November. It's been a long road, full of experiments and successes alongside failures. We have learned a lot, and we're continuing to distill our unique educational language.

**2022 visitors by the numbers:** 400 businesspersons, educators, government officials, and folks from around the world, 65 groups, about 950 students from all the schools in the area.

## So what did we have?

01

The president's visit

02

Professional development workshops

03

Engineering for the real world

04

The innovation lab

05

Opportunities Cafe

06

GoDare

07

A new partnership

08

Summer courses

09

Gilboa-Galil basketball team

10

'HandyKids'

11

Make Week

12

Designing for community needs

13

Gevasol Academy

14

Gevasol Women's Day

15

Youth experience industry

16

Neighborhood improvement

17

Employment preparedness

18

Educators' education

19

Customizing costumes

20

Hanukkah holiday

21

We've been evaluated



## 01

### The president's visit

In June, Israel's President Yitzhak Herzog and his wife, Michal, visited Idan Technology. They came to witness the tremendous educational, industrial, and social activities in our region. We presented a tour de force showing of our activities:

- Gevasol's C.E.O. and the local municipality's C.E.O. discussed partnerships between the business and public sectors and their impact.
- Students and teachers presented the pop-up program and the communication class. 12th-grade physics students and Zvika Raviv, a senior engineer at Gevasol, presented the senior thesis they're working on.
- The I.O.T. innovation lab presented its prototypes.
- The Ramon students shared their work on renewable energies using an electromagnet.
- The participants of the Costumes for Children With Physical Limitations workshop presented the costumes.

## 02

### Professional development workshops

Guests from all walks of life visit Idan Technology: People in education and business, public servants, military folks, and people who have heard about us and want to see for themselves. We offer them tours and professional development workshops on leadership, teamwork, creativity, and innovation. We hold conversations with industry and community leaders and provide hands-on experiences. We take joy in inspiring such diverse audiences.

## 04

### The innovation lab

This year, we established an innovation lab tackling regional needs and challenges. Teams of high schoolers worked with experts to affect their surroundings. They met with the community and heard about different challenges. In subsequent meetings, they acquired technological knowledge of the Internet of Things. Each team then chose a challenge for which to build a solution or diagnostics using the Internet of Things. Among the projects are prototypes to help deal with public transportation challenges, the cleanliness of the public space at Springs Park, and the salinity of the water in the canals. Looking forward to new challenges in 2023!



## 03

### Engineering for the real world

Idan Technology supports Gevasol engineers in producing prototypes, components, and jigs for Gevasol's industrial plants. The projects enable quick problem-solving, shorten production time, improve ergonomics on production lines, and more. Our boys and girls get to take part in the processes of the real industrial world.



# 06



## GoDare

At the end of Rosh Hashanah, we flew to the Netherlands for the opening event of GoDare.

Four years ago, Lely's owner, Alexander van der Lely, visited Idan Technology. He was inspired to create a similar center. Idan Technology's team advised GoDare's team as the dream materialized.

We toured Lely and Gevasol Holland, gave workshops, and helped prepare for the event.

We bonded with the GoDare team and discovered an educational culture very different from the Israeli one. The encounter led to a fascinating pedagogical dialogue and mutual learning.

The opening event was festive and very moving. A Dutch media star hosted it.

It was a singular experience and an opportunity to create a partnership across borders and cultures. We look forward to a reciprocal visit by the GoDare team!

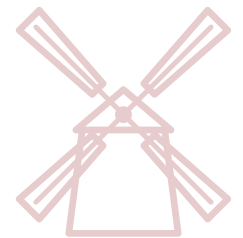
# 05

## Opportunities Cafe

In March, we held the 5th Opportunities Cafe. We gathered about 250 educators from our region to celebrate creativity, innovation, and learning. The educators showcased 40 projects from schools, community organizations, Idan Technology, the environmental farm, and more. The event ended with a lecture, 'Education Here and Where,' about global trends in education and our ability to play a part in them.

28/09/2022

**Here we go,  
hopping to Holland and back**



4 ולדרך 	3 מתרשמים 	2 לומדים 	1 נפגשים 
----------------	------------------	-----------------	-----------------

**SAVE THE DATE**

**'קפה הזדמנויות' חוזר בגדול!**

**יום שלישי 29.03.2022**

**כ"ו אדר ב' 16:00-19:00**

**נפגשים בעידן טכנולוגי**

**'קפה הזדמנויות'**

**מספר 5**

פרטים נוספים בהמשך. להצגת תוצרים: יאיר 050-8580146 | לטופס הרשמה להצגת התוצרים: [הירשמו כאן](#)

# 07

## A new partnership

We deepened our cooperation with Beit Shean, our underserved neighboring town. Children from three elementary schools participate in programs that combine their school curricula with engineering-technological skills. We also train the schools' teachers to get the most out of the process.

# 08

## Summer courses

Over the summer break, we held five courses, and many children chose us over summer camp! The offerings included microbit programming, silhouette design, laser cut design, 3D modeling and printing, wood carving, engine challenges, and wood construction. About two hundred girls and boys had a summer of creativity and challenges.

# 10

## 'HandyKids'

One of the summer courses was HandyKids. The participants learned to work with professional carpentry tools and heard a story that contained an engineering problem. They worked together to create a solution to a problem that arose from the story. 4th- and 6th-graders tackled a problem inspired by Noah's ark: how, after 40 days on the water, did the animals get out of the ark quickly and safely? As a solution, they planned and built a rail 2 meters high and 8 meters long and a slide-car that travels on the rail.

Next, grades 1-3 heard a story about a bird with a problem and turned the slide car into a giant decorated bird. They rode on the bird slide car with great cheer!

HandyKids developed teamwork, large-scale engineering, and problem-solving skills.



# 09

## Gilboa-Galil basketball team

Players of the Gilboa Galil basketball team spent the afternoon at Idan. They spoke with Gideon Yadin, Gevasol's founder and C.E.O., about the power of community and how part of success is the occasional failure. Then our instructors led them in a hands-on workshop.



11

## MAKE Week

In October, Israel's MAKE Week was held all over the country, led by the Jerusalem Science Museum. We had a special edition of Opportunities Cafe. Dozens of people from all over Israel came. We engaged in deep conversations about pedagogical innovation, creating collaborations, and mobilizing technology for the educational challenge. We learned so much!

12

## Designing for community needs

Collaboration with local middle schools resulted in the lively activity of science Honors classes at Idan Technology.

The kids create solutions to needs in the surrounding communities. Along the way, they master the required technologies: laser cutting and 3D modeling.

The process consists of meeting with the served communities and understanding their problems (an opportunity to apply communication and research techniques!)

Then, the students design engineering products to solve the problems.

One of the groups works with seniors, developing accessories to help them with their daily tasks. Another works with a physical therapy clinic that treats children with autism; they develop therapeutic games for the kids.

A third group is programming a robotic kitchen for people with physical disabilities.

**Empathy and technology education is key to creating a fair and open-hearted society.**

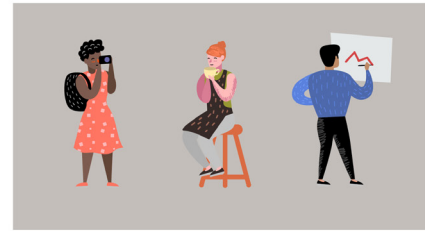
13

## Gevasol Academy

Engineers, suppliers, and customers gathered at Idan Technology for a Gevasol Academy session. The subject was reliability engineering.

Gert Kragten, Ph.D., who heads Gevasol's reliability lab at GoDare in the Netherlands, led the day, which included presentations, case studies, hands-on experimentation, and opportunities to share experiences and opinions.

Gevasol  Academy  
 2022



16  
 NOVEMBER

**When: Wednesday 16.11.2022**

**Where: Idan Tech Center**

**What time: 08:00-16:00**

08:00	Opening / Welcome
08:30	1st session - "Introduction to Weibull analysis + case study" Gert Kragten
09:30	Coffee break
10:00	2nd session - "Reliability test methods and data analysis + experiment" Gert Kragten
11:00	Coffee break
11:15	3rd session - Workshop - "Reliability, from kick-off to end-of-life" Gert Kragten
12:00	4th session - Case Study
13:00	Lunch
14:00	5th session - Case Study
15:00	Coffee break
15:15	Closure, collect 'take home messages'
16:00	End of day



14

## Gevasol's Women's Day

After two years of hiatus, we renewed the beautiful tradition of Gevasol's Women's Day. Gevasol Israel's female employees gathered at Idan Technology for a day of togetherness. We enjoyed workshops (from laser cutting to photography), a lecture, and fine food. It was wonderful to meet face-to-face after such a long time.

# 15

## Youth experience industry

We held workshops for the participants of the Tachles program for the third time. Supported by the Zurim Foundation, Tachles works in boarding schools to train 12th graders for productive adult life. They visit us and discover the industry world, taking manufacturing simulation workshops. They end the visit with a meeting with Gideon Yadin, C.E.O. of Gevasol, for a conversation about courage and success against all odds.



# 16

## Neighborhood improvement

A collaboration with a community task force from the Eli Cohen neighborhood in Beit Shean gave rise to an evening course in which community representatives-teenagers and adults-build seating areas for a community center in the neighborhood.

# 17

## Employment preparedness for people with autism

Naveh is an organization that trains young adults with autism for independent living. Naveh students take a year-long employment preparedness C.N.C. course with us. Along the way, they practice time management, teamwork, and communication-essential skills for employment success.

# 18

## Educators' education

Educator development workshops for staff from Israel's entire educational spectrum are already routine at Idan Technology, and 2022 was no exception. The goal is for educators to experience the educational processes at Idan and then adapt them to their schools.





## Customizing costumes

February is called Extraordinary Month around here, marked throughout the region with activities celebrating people with special needs. We have been preparing costumes for children with disabilities for five years. Dozens of volunteers design the costumes with the children and adapt them to their unique challenges. The kids wear the outfit on Purim, the Jewish dress-up festival. The diverse volunteer team has become professional; everyone feels they have received more than they have given.

### חנוכה מואר בעידן טכנולוגי

3 ימים בחופש חנוכה של שמחה, חקירה ויצירה

**שלישי, רביעי, חמישי**

**20-21-22/12/22**

**מיניקורסים לכיתות א'-ג'**

<p><b>11:30-13:30</b></p> <p><b>לגו רובוטי חדש!</b></p> <p>התחדשנו בערכות לגו חדשות ושוות! נלמד יסודות בתכנות ונבנה יצורים זדים מלגו עם מנועים זעירים וחיישנים מגוונים.</p>	<p><b>09:00-11:00</b></p> <p><b>אור וצל תיאטרון צלליות</b></p> <p>נתכנן ונבנה תיאטרון צלליות מעץ ובד בכלי נגרות ותפירה, ניצור דמויות בציור ידיני שיומר לקובץ ויחתר במכונת הלייזר.</p>
<p><b>11:30-13:30</b></p> <p><b>ארדואינו רובוט מכונית</b></p> <p>נבנה מכונית רובוטית עם רכיבי אלקטרוניקה ומנועים, נתכנת אותן ונפצה אתגרים של תכנון מסלולים וביצוע משימות.</p>	<p><b>09:00-11:00</b></p> <p><b>אור וצל תיאטרון צלליות בחיתוך לייזר</b></p> <p>נתכנן קבצים לחיתוך צלליות, כולל המסגרת והדמויות, נחתוך, נחבר ונקבל תוצרים יפיפיים.</p>

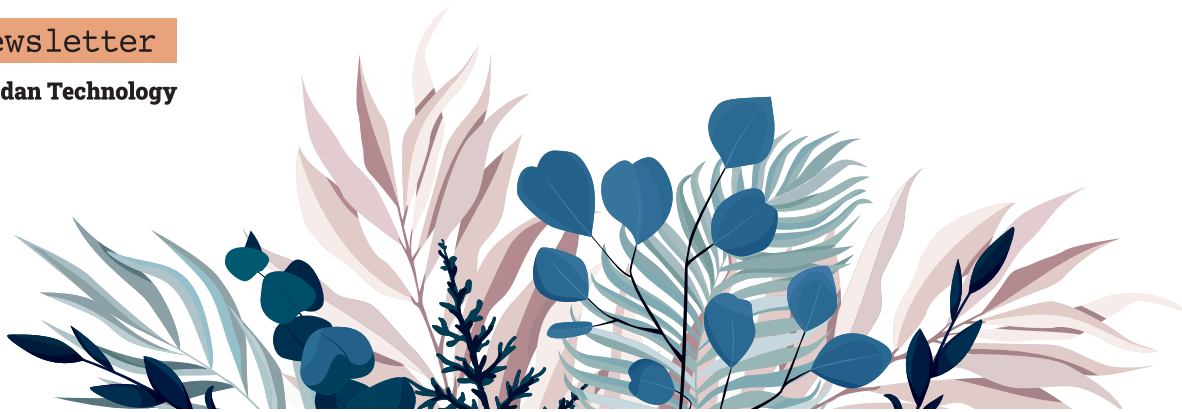
**מיניקורסים לכיתות ז'-יב'**

<p><b>11:30-14:30</b></p> <p><b>ריתוך</b></p> <p>נלמד את יסודות הריתוך, נעבוד ברמת, דיסק ומסור סרט וניצור תוצר אישי מדליק.</p>	<p><b>09:00-11:00</b></p> <p><b>עיצוב דיגיטלי</b></p> <p>ניצור ליון מוצרים ממותגים באופן אישי, בעזרת טכנולוגיות עיצוב והדפסה מיוחדות.</p>
--	---

# 20

## Hanukkah holiday: Light, shadow, programming

During the Hanukkah holiday, we offered courses combining light and shadow, welding, and programming, utilizing our new and complex robotic Lego software. We also offered an Arduino-based course in which participants cracked fascinating and complex challenges.



## 21

### We've been evaluated

**Our educational activities were professionally evaluated this year.**

**The result: Years of a gut feeling that our approach is uniquely effective received scientific confirmation. Here are some of the study's results:**

#### Students' evaluation:

- The learning environment is positive, relevant, and of value to them.
- The learning experience compared to that in school is more experiential. The hands-on activities are exciting.
- Learning encourages striving for success.
- An emotional-cognitive experience accompanies the learning, making students want to explore new areas.
- Learning requires planning a project before construction and accompanying the process with research.
- Students are active and curious, proactive, and willing to learn through experimentation.

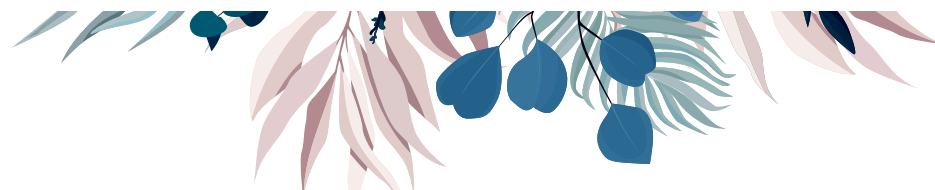
**Fun Fact: The girls' average scores were higher than the boys' in all categories.**

#### Evaluation by the school teachers accompanying the children:

- The teachers feel that the relationship between them and the teaching staff at Idan is based on trust and partnership.
- These ties might influence changes in the schools themselves.
- The learning experience allows teachers to challenge students and develop their thinking.

**The study gave us a lot to chew on, and we're incorporating the results into our planning.**

**Done in collaboration with S.F.I company as part of the Stemaianot process.**



Idan Technology is a partnership between the Gevasol Group and the Springs Valley Regional Council in Israel. It encourages children, youth, and adults to try their hands at cutting-edge technology and engage in educational and innovative projects. Idan Center comprises Gevasol's offices, community educational spaces, and innovation centers.