

ORTAKÖY İTÜ MTAL



Year 1, Issue 1, NOVEMBER 2019

DENİZCİLİK, ELEKTRİK-ELEKTRONİK VE BİLİŞİM TEKNOLOJİLERİ

A New History is Being Written in Education

Within the framework of the 2023 Education Vision, we are always continuing our education and training by taking people to the center. By synthesizing the past and the future, we will sign our plans, programs, project works to tomorrows without forgetting that we are human beings taking into account global and local conditions.

As İTÜ Ortaköy MTAL, we are creating SYNERGY by integrating the energy of the new generation with 246 years of İTÜ experience. We are aware that many countries in the world owe their economic development to the vocational high schools. That's why we mobilized the public the basic principles of İTÜ such as expertise, research, being a follower of technology, visionary, sector needs and the gains we have achieved by kneading in İTÜ Ortaköy. We have established the Social Activities Team for the monitoring and organizing of social activities in our school. Together with the team and all our other students, we will undertake many different activities and projects. We're going to put out a bulletin every month. We'll include events in the newsletter. The bulletins will also be corporate memory and will contribute to the formation of corporate culture.

We would like to thank all those who have contributed, especially our Minister of National Education and rector, for giving the opportunity to be an early university student with İTÜ experience under the name of İTÜ. In our first issue, our students interviewing Rector Prof. Dr. Mehmet KARACA and Our Provincial MEM Deputy Director Serkan GUR are taking place. We will continue the new interviews in the coming issues and we have prepared a pleasant newsletter where you can follow the news from our school. We wish you good times in health and well-being.

On behalf of the Social Activity Team
School Principal, Prof. Dr. Hüseyin TOROS

• We met with Rector of İTÜ Prof. Dr. Mehmet KARACA. We talked about everything that İTÜ will offer to Ortaköy MTAL, including science, art and sports. "You are one of the first of İTÜ. We will offer all kinds of support to İTÜ MTAL". Details on page 9.



• You are one of the most important institutions established in the history of the republic, perhaps in the history of vocational and technical education. Why are you so important? We had an intimate conversation with Serkan GUR, Deputy Director of National Education in Istanbul province. Details on page 10.



• İTÜ Ortaköy MTAL students will experience the mobile-based oscilloscope created by a young Turkish engineering team called Com-pocket with domestic and national facilities. Details are on page 12.



• MEM Besiktas District Manager Nesrin KAKIRMAN chatted on education. İTÜ MTAL reversed the model of students attending vocational high school with ASELSAN. İTÜ MTAL has completely changed its orientation, quality and expectations to vocational high schools. Details in our December 2019 newsletter.



"Small minds talk about people, middle minds talk about events and big minds talk about ideas." (Chinese proverb)

İTÜ Ortaköy MTAL İTÜ Ortaköy MTAL Social Event Team Meeting

18-22 November 2019 in semester, available members of İTÜ Ortaköy MTAL Social Event Team came together to make evaluations. At the meeting, itineraries as İTÜ Ortaköy MTAL Social Event Team discussed issues such as issuing a bulletin every month, organizing seminars, symposiums and workshops and making trips. It was decided to include the activities to be held and held in the monthly newsletter. It was stated that the releases

İTÜ Ortaköy Mesleki ve Teknik Anadolu Lisesi,

will be the memory of the institution and will contribute to the formation of the corporate culture. It was also stated that ITU could be the cause of the spread of beauties in Ortaköy to other schools.



We bring the seeds together with soil, water, air and sun



We want to observe and study what's going on around us and enrich our social life by touching them. The seeds we plant sprout and grow as a result of meeting with soil, water, air and sun; Fruit, vegetables and flowers are a wonderful tribute. According to psychologie Heute magazine, gardening can have very positive effects, especially in cases of condensation disorders and lack of desire. Plants are examples of people in a sense. Plants remind people what they need to survive: spreading, diversifying, growing and maturation; Besides, getting weak and dying. Dealing with plants reminds the person that their behavior is important and effective, and teaches the person to plan their steps. Waiting for the outcome of their actions adds meaning to one's life. In addition to these positive psychological effects of gardening, there are also effects such as lowering blood pressure, reducing mental tension and relaxing muscles.



Nature can remind you in various ways what the truth is. It also gives people this awareness to remember their roots. As man observes the events in nature, his reactions to the events he encounters; more mature, more open to surprises, more at peace with himself. When man is intertwined with nature, he knows himself much better and perceives himself as a whole. Consequently, whether it's dealing with a few potted flowers, creating a small garden, or going on long walks in nature, we should definitely bring nature into our lives, or rather we should not be further away from it. Need.



Taking all this into consideration, we prepared our Winter Garden as İTÜ MTAL family. Believing in the power of being a team, in solidarity together; We made the first preparations of our garden with our students, administrators, school staff and teachers. We planted cress, onions, arugula, parsley, garlic, coriander, rosemary, cabbage, semizote, radish and flowers. We've named some of them, and now we're going to wait for the crops to grow with the joy of raising it together.



Happy people get happy jobs, they're guided in life, they form happy families, they contribute to production. When one is happy, one can do good things, produce them.. (Levent Yazıcı)

Maritime Education Meeting at İTÜ Maritime Faculty

A meeting about maritime sector and human resources in 2030s was held at İTÜ Maritime Faculty on November 5, 2019. Socioeconomic advantages of technology use in education, especially augmented/virtual reality (VR) technologies, was discussed in this meeting. Academicians, notably Prof.Dr. Ali Fuat AYDIN, Vice rector of İTÜ, and Prof.Dr. Oğuz Salim SÖĞÜT, dean of the Faculty of Maritime at İTÜ, and several representatives from maritime sector attended the meeting. They also did some brainstorming about the use of Virtual reality (VR) technologies in Maritime.



The maritime is on the verge of transformation. We are moving from labor-intensive to mind-intensive era. We will train MARINERS on a global scale. We will contribute to the rise of our country to be the top in world maritime.

International Istanbul Biennial

Accompanied by our English Teacher Tuğçe KILIÇ, İTÜ Vocational and Technical High School students visited Mimar Sinan Fine Arts University, Istanbul Painting and Sculpture Museum within 16th International Istanbul Biennial. In Biennial, whose theme is The Seventh Continent this year inspired by colossal garbage patch in the Pacific Ocean, the students were informed about environmental issues, which changed their perspectives and helped to raise their environmental consciousness.



Future of Maritime

Ziya Kalkavan Vocational and Technical High School Alumni Association (ODEMED) held an extraordinary general meeting. Teoman Mustafa AKYOL was in charge of the steering wheel. İMEAK Chamber of Shipping Chairperson Salih Zeki ÇAKIR and several chairs from different civil society organizations attended the meeting. Prof. Dr. Hüseyin TOROS, Principal of our school, and Assoc.Prof. Dr. Barış ÖNAL, an instructor at İTÜ, also attended the meeting and met there by coincidence.

Issues like the future of maritime in 2030s and the programmes that will be included in maritime education at İTÜ Ortaköy Vocational and Technical High School were discussed in the meeting. The fact that İTÜ has been a maritime university for 246 years and that this experience of İTÜ will be transmitted to new generations was indicated in the meeting. Attendants emphasized the fact that that İTÜ Vocational and Technical High School is a public school based on Ministry of Education. It is specified that with the help of İTÜ's name, smart and skillful students will choose vocational high schools more. As management information systems and electronics will have more importance in maritime sector near future, there are three different departments at İTÜ Vocational and Technical High School (Maritime, Information Technologies, and Electric and Electronics Technologies)There being two maritime high schools in Ortaköy, there will be more qualified human resources in maritime sector.



Principal of our school addressed to maritime sector and said that 92-year Ortaköy Maritime education now runs from both sides. Students of two sister schools will shape the future of maritime industry. Our students are getting ready for future in a fraternal relationship. We want graduates to come to their schools more often and visit their grandchildren. As a country, we can concentrate on how we can get ahead in the maritime sector where global competition is experienced fiercely. We can improve our country's maritime sector together.

ITU Vocational and Technical High School offers these expertise areas in Maritime:

Deck Operation Area

Ship Machinery Operation Area

Ship Electronics and Communication Area

We give importance to data literacy because we produce data-based solutions.

Visit to the Chairman of the Chamber of Electrical Engineers Istanbul Branch

Principal of our and Yakacık Vocational and Technical High School teachers Behçet ÇEVİK and Muhammed GÜRÇAY visited the Chairman of the Chamber of Electrical Engineers Istanbul Branch, Erol CELEPSOY. In the meeting held on November 21, 2019, ITU Ortaköy Vocational and Technical High School, what the world will face in the 2030s, and the human resources of the future were discussed. Erol CELEPSOY, EMO Istanbul Branch Chair of High Council, said that they were very pleased with the visit and that they were ready to give all kinds of support to İTÜ Ortaköy Vocational and Technical High School. He stated that all members can get more information about the school in a board meeting.



Ataşehir's Visit to Ortaköy

A visit to İTÜ Ortaköy High School from Ataşehir Municipality Environmental Protection and Control Directorate. Environmental Protection and Control Manager Ayten KARTAL and Çiğdem KARA, İpek ÖNDER and Feyza DİŞLİ from the team reported that they have high expectations from İTÜ MTAL. During the visit, it was stated that our children will develop products with high added value, and they will always be sensitive to the environment. Returning back to their high school years, the engineers stated that they would have wanted to become ITU Ortaköy High School students and they also added that their close circles would strive to have the chance to study in our school. Environmental Protection and Control Manager Ayten KARTAL, who stated that they are trying to create environmental awareness in Ataşehir, invited our school principal to Ataşehir to give a conference.



For the sailor who does not know where the port is, it does not matter where the wind blows. (proverb)

"Towards the 2030s" Seminars started at İTÜ Ortaköy

Head of İTÜ Maritime Faculty (YDO) Alumni Social Assistance Foundation (DEFAV) General Manager of <http://ilkfer.com.tr/>, İlker MEŞE, gave a seminar named "Customs and Traditions at Sea" on November, 2019 at İTÜ Ortaköy High School. İlker MEŞE, who is also the owner of many companies, said that customs and traditions are extremely important in shipping. He said that peaceful journeys are made at sea thanks to the traditions coming from the past. Emphasizing the importance of maritime in world trade, MEŞE reminded that there are still many things to do in this field.

We do not complain about the problems because all problems are subjects of a PROJECT for us.

-----** BRIEFLY **-----

- The maritime sector magazine published on the interview sites with our school principal.
- <https://www.denizgazete.com/>
- <https://www.kaptanhaber.com/>

Under the leadership of our psychological counseling and guidance teacher Gülnihal Kaçıra ÇAPACIOĞLU, together with our Social Activity Team students and our psychological counseling and guidance service, we discussed the VIRTUE topic within the scope of Values Education.





- We conducted an earthquake drill under the leadership of our deputy school principal Uğur ÖZALP. We discussed how to behave at the time of the earthquake and at the end of the earthquake. After the earthquake on October 10, 2019, we took a photo in schoolyard and sent it to the parents, that was highly appreciated by our parents.



- At the beginning of the year, we held our teachers' board meeting in our school with the presence of Serkan GUR, Deputy Director of National Education in Istanbul Province.



A good teacher never graduates, stays as a student always. (Ziya Selçuk)

- In the days when the weather was nice, we held classes on the edge of the Bosphorus. Cats and seagulls accompanied our outdoor classes from time to time. Outside of book reading hours, students have occasionally demonstrated their skills. Turkish Language and Literature Teacher Canseli ÖZCELİK led the teachers who taught in the garden. Our yellow cat has become the most accompanying animal.



**We have goals.
We believe that we will achieve them.
We're working and we will manage to do them.**

- We visited ITU ARI Teknokent, Turkey's entrepreneurship and innovation base. General Manager Associate Professor. Dr. Deniz TUNÇALP explained the processes related to the invention and their support.



İTÜ MTAL is a high school where you will rise rapidly in the field you choose and intertwined with Teknokent.

- We hosted Kurtuluş İhsan Küçükarslan Secondary School students, teachers and school administrators from Afyonkarahisar on November 9, 2019.



- We hosted Kocatepe Secondary School students, teachers and school administrators from Afyonkarahisar on October 22, 2019.



- We held our orientation program for the 2019-2020 academic year on September 5, 2019.



- As part of our collaboration with Beşiktaş Counseling and Research Center, a seminar about attention deficit and hyperactivity disorder was held for teachers on October 21, 2019.



- The booth ITU set up at Teknofest fair was a privileged space for our students.



- Psychological Counselor Elif SAN gave a seminar for our school teachers about Gifted Children on November 12, 2019.



- Our teachers participated in the İSTKA project cycle training on November 18-20, 2019.



... .. the ultimate aim of the 2023 Education Vision is, to enable an existential and informational understanding which is based on an intellect of morality and that is human centered. (2023 Education Vision)

- We were at the TUYAP book fair. We saw and examined all the beautiful books and bought some of them. We had the opportunity to meet publishers staff, owners and most importantly the writer. The 38th International İstanbul Book Fair was held in TUYAP Fair and Congress Center - Büyükdere between 2-10 November 2019. There were 800 domestic and foreign publishing houses and nongovernmental organizations attending the fair. For 9 days more than 300 events including boards, discussions, poetry readings and children workshops where thousands came together with the writers.



- In order to observe school management processes at work and to be able to transfer their field observations to their learning experiences, students from İstanbul University Psychological Counseling and Guidance Department visited our school on 15th November 2019 and came together with the our principle Prof. Dr. Hüseyin TOROS and vice principles Uğur ÖZALP and Erdal BOZKURT.



In the 84. issue of ITU Foundation Magazine we discussed "Science and Technology History". Scholars from universities and abroad have contributed to our magazine. https://www.ituvakif.org.tr/dergi/sayi_84.pdf

- A brochure and a panel were prepared for the 2019-2020 academic year guidance service promotion. The files of the studies they will do during the year were prepared and given to the classroom guide teachers.



- Our Psychological Counseling and Guidance department doing empathy studies in the classes.



In the 83. issue of ITU Foundation Magazine we discussed "Vocational and Technical Education". You can find our magazine down in the provided link, which evaluates vocational high-schools from different angles. https://www.ituvakif.org.tr/dergi/sayi_83.pdf

- Our sports club students started to work. Our forefathers said, "If there is movement, there is abundance." We started to do different sports with different teams in order to contribute to our physical development.



- Within the framework of the 2023 Education Vision, the İstanbul panel on vocational and technical education was held.



2023 Eğitim VİZYONU

İSTANBUL İL MİLLİ EĞİTİM MÜDÜRLÜĞÜ

PANEL

mesleki ve teknik eğitim

**2023 EĞİTİM VİZYONU
MESLEKİ VE TEKNİK EĞİTİM
İSTANBUL PANELİ**

Serkan GÜR
Prof. Dr. Hüseyin TOROS
Dr. Ömer TONTUŞ
Mustafa BÜYÜKDEDE
Hakan ÇOBAN

23 Ekim 2019 Çarşamba
14.00 - 15.00
İTÜ Mesleki ve Teknik Anadolu Lisesi

If we turn the school into a living place and make your kids feel like they're in the middle of a market, like they're in an amusement park, like they're playing in the street, like they're slipping on a snowball with their friends, the school comes alive. (Ziya Selçuk)

- Our parent meeting at the beginning of the 2019-2020 academic year was held at our school on Thursday, September 5, 2019 at 09:30.



- Deputy Minister of National Education Prof. Dr. Mahmut ÖZER and General Manager of Vocational and Technical Education Prof. Dr. Kemal Varin NUMANOĞLU visited our school.



- Besiktas district governor Onder BAKAN visited our school and received information about our education and training. In addition, our governor had a one-on-one chat with our students in our classrooms.



- İstanbul Provincial National Education Director Levent YAZICI visited our school. With the participation of our district manager Nesrin KAKIRMAN, we chatted about developments in education and training.



- Istanbul Provincial Deputy Director of National Education Serkan GÜR visited our classes and talked about the future with our students.



İTÜ Rektörü Prof.Dr. Mehmet Karaca “Sizler İTÜ’nün ilklerindensiniz. İTÜ MTAL’e her türlü desteği sunacağız”

İTÜ Rektörü Prof. Dr. Mehmet KARACA ile bir araya geldik.

We talked about everything that ITU will offer to Ortaköy MTAL, including science, art and sports.

- **TU MTAL is a new project school. We feel very lucky to be the first students of the school. What awaits us in the coming periods?**

ITU brand, besides meeting the needs of qualified personnel in the sector, offers important contributions to improving the quality of vocational and technical education and improving perception. A perfect future awaits you. The name ITU will open different doors for you in every field. You'll have a good communication network. You've got a long way to go, so be patient and work hard in the process. You'll get some skills here, the training you've received will allow your skills to come to the fore.



- **ITU's support to vocational high school is very important, what are our advantages?**

We make every effort to make you benefit from all the facilities of ITU. You will be able to enter and exit labs, libraries, cafeterias and so on. You'll be like a student of ITU. Whatever they're offered, you'll have more. Because you are one of our firsts..

- **We have learned that you are working on artificial intelligence and the Augmented Virtual Reality (AVR) approach. What are the developments in these matters? Are there any other studies?**

We are continuing our work on Augmented Virtual Reality (AVR) with faculty members of the University's School of Informatics, Maritime Affairs, Foreign Languages and Faculty of Architecture. We'll be buying AVR glasses soon. You will use AVR in vocational English training. We have a center at our university on artificial intelligence and data science. In this center, academicians from many different departments such as aircraft, computers, electronics, physics and materials are doing projects together. We have begun research in autonomous vehicles, medicine, defense industry and many more. Our undergraduate students can work at the center. You're in English preparation right now. Starting next year, you will be able to take part in it and start writing code.

- **Does ITU MTAL have any special significance for the Maritime Faculty?**

Of course there is. Ortaköy is a place of nostalgic importance for our Maritime Faculty. One of the most envious areas of graduates, Ortaköy is of invaluable importance to them. In this respect, they look at it differently and they enjoy returning to Ortaköy. At the end of November, the 135th anniversary of the Graduates of our Maritime Faculty. The year was Fish Day. They'd be longing for that date.



- **How do you see the future in the departments of ITU MTAL?**

IT is already the profession of the future, an important field in electronics, and shipping is a must for Turkey has 8800 km of coastline. We need marine-trained human resources. We need to be a little more effective in this area and close the gap. I believe that our graduates in both faculty and high school will reduce this gap. The need for human resources has been discovered by Far Easterners, and especially Filipinos and Chinese are raising people in this area.

- **How will vocational and technical Anatolian high schools contribute to the needs of the sector?**

The most serious problem in Turkey is the main element sought. We need people to build the bond between engineers and workers and develop projects. I believe that MTALs will fill the big gap in this regard as well.

- **Can all high schools provide vocational technical training in the future?**

That's not possible. Vocational technical training is a special training. From that point of view, I don't believe they can all give it to me. I don't think we should give that opportunity to every high school for a more qualified education. Vocational and technical training needs to be special and protect.

- Is there any advice you're going to give to all the students here, or is there anything you're saying you definitely don't do?

We just talk about our experiences. Be patient, make good friends and protect him. Work hard, don't be undecided. Trust yourself, never lose your will and faith to succeed.



About ITU Rector Prof. Dr. Mehmet KARACA

Born in Istanbul in 1957, Prof. Dr. Mehmet Karaca completed his undergraduate and graduate studies at ITU's Meteorological Engineering Department. He then went to the United States to graduate for his second master's degree in Atmospheric and Oceanic Sciences from the University of California Los Angeles (UCLA) to M.S. University of California, and then successfully completed his PhD studies. In the following period, he returned to ITU and continued his academic life and also held administrative positions. Karaca, who first served as deputy director of ITU Institute of Natural Sciences between 1993 and 1995 and was the director of the same institution between 2001 and 2004, was the Deputy Director of the Eurasian Institute of Earth Sciences and its Research. He also served as a Member of the Board of Directors of the Fund. Prof. Dr. Mehmet KARACA, who rose over time as a result of his successes in administrative positions, was Vice-Rector between 2008-2010 and founding rector of ITU TRNC for one year between 2009 and 2010. Karaca, which has been appointed as the Rector of ITU at the end of the intervening two years, has its main research areas: atmospheric and ocean modeling, global and regional climate change, emergency and disaster management, air pollution and quality, and urban climate. Rector KARACA also includes; He is a member of national and international organizations such as the American Geophysical Union, the American Meteorological Society, the National Geography Association (USA) and the Wildlife Conservation Association. Among the personal interests of Prof. Dr. Mehmet KARACA, who is interested in many different art and sports activities, especially music, in the increasing periods of academic research and administrative duties; There are many sports, gastronomy and music, including world cinema and cinema history, Turkish cinema, football, basketball and American football. Particularly interested in classical Turkish music, jazz and eclectic music, Karaca has a personal music collection with 500 records and over 500 CDs. He is married and has two daughters.

(Interviewers: Sila KARİP, Sabri Yağız KILIÇ, Efe DİNÇBAĞCI, Çakıl Serra Su ÖZTEN)

You'll already be students who grow up with the industry

- Can you tell us a little bit about yourself?

I am Serkan GÜR, Deputy Director of National Education of Istanbul province. I am responsible for vocational and technical education in Istanbul. To put it briefly, I studied at Sisli Vocational and Technical Anatolian High School. Then I was appointed as a teacher to the school I was studying, graduating from. It was an interesting feeling. I have a degree from Marmara University and a master's degree in Technology Education from Marmara University. I'm a technical teacher. Then teaching, deputy director of various schools school directorate, district national education directorate, provincial national education branch directorate, provincial deputy director of national education, but i have introduced all myself in my statements i use this:

I work within the principle of working, which is connected to professional and technical education with feelings of loyalty and trying to be connected. Of course, I never disable my professionalism, but i would say that vocational training is my case. And I'm honored to serve vocational training in the consciousness of a case because I was born there, where I earn my bread, and I want to die there.

In the future, I may also touch on my mottoes, but a strong vocational training is required for a strong Turkey. A country's strength is directly proportional to how much production it is produced. So one of our missions to build this school, for example, of the generations that produce it, is to raise generations that can produce national technology. I feel like I'm in a very private first interview in a very private institution. It's an emotional moment for me. And I'm very happy about that. Therefore, I see vocational education as one of the most important points for the future of our country. The strengthening of countries is directly proportional to the strengthening of vocational education. Therefore, especially in the coming period, it will create a very big perception movement of Turkey with the raising of generations that produce technology, and thanks to our stronger vocational training structure, it will be an even stronger Turkey. That's how I define myself.



- Can you tell us a little bit about what your career journey was like?

I've just mentioned a little bit of that. My career journey, I love being a teacher, and I can say it with a little anecdotal, an anecdotal that makes me win my master's exam. When I was little, I used to read novels and write notes on every page. I used to imagine each page as a student's composition, and i'd write a note on top of it in

red ink that I felt from the page. The latest novel is 148 pages, with a total of 148 notes to 148.

• **Do you think that the support of Istanbul Technical University is significant? What is your target?**

I think it is very significant. You study at a very significant school. You have your education at a school probably which is the most significant school in the history of Turkish Republic and in the history of vocational and technical high school. Why are you so important? One of the most important problems of vocational and technical training in Turkey is the problem of perception. Actually, I think you realize how significant vocational and technical training within your own circumstances. As a result of this, you understand how precious this institution is, but I think it will be easier to show the importance of this institution to the society with the ones who have special abilities as you do. Istanbul Technical University will have an outstanding contribution to change the perception about the vocational and technical training in Turkey. We claim that we have students who are within the % 1 in the exams taken for high school education, here we have this school. After these students graduate and start working in the field related to their engineering education background, the quality of the education we have will be visible which may probably lead the Council of Higher Education to take a step which has not been taken for many years. I see Istanbul Technical University Vocational and Technical high school at the centre of the development of vocational and technical training in Turkey.”



• **Our school is referred to as the project school. We feel very lucky because we are the first students of the school. What is waiting us in the near futures?**

This is a very important project school. It is a very important institution in terms of vocational and technical education. Be proud to be here, but don't stress it. The health of your life is more important to us. Very good things are waiting for you. I appreciate you, I follow you.

• **We learned that you are working on artificial intelligence and augmented reality approach. How works on these issues work, how future studies are planned?**

You are now in a very important, very lucky position. You are now in the Bosphorus and a ship is passing. It is nice to see the sea or the places with historical texture such as Dolmabahçe and Çırağan around Istanbul from here. It is our most important task to at least see the values that make Istanbul Istanbul and ensure that they do not disappear. Our core values together with technology should not be weak due to technology, I underline this, but there is a point where the world goes. In this sense, when we think that the software is the most effective and especially the IT tools and technology are at the center of the world and the market is at the center of the economy, it is one of the most important

things we should do. In this sense, our Ministry and the Directorate of National Education have studies on the use or dissemination of artificial intelligence in schools. When we look at the applications related to virtual reality in the world, we see that art has a very important place in engineering science. Three-dimensional glasses have a very important place in fault diagnosis and repair. These glasses are now in a very important place about understanding or understanding a job or creating permanent track behavior change in mind. Therefore, at ITU MTAL, training with such technologies, especially artificial intelligence studies and VR glasses will be soon.



• **How our school will meet the needs of the industry?**

The purpose of vocational education is to train the qualified manpower that the sector needs. When all of the things I have been telling you from the very beginning of the interview are, that is, you with augmented reality, artificial intelligence labs, glasses, high English preparation, etc. As you become well equipped with the studies, you will find each other and the representation of the manpower needed by the market, in which the industry is integrated, and the training effect that will integrate you into the market with you.

We even have a claim as follows: the graduates of this school, who have the qualifications required by the labor market and even produce national technologies, will be formed by this school. We have determined a much higher position for you. Therefore, in the future, we will bring the labor market to you and enable you to work with the labor market. We will match you with various brands and you will be trained here with the technologies of those brands. Later, that brand will position you within its body as it trains you with that technology. Consequently, İTÜ MTAL's wide cooperation with the sectors has started and will continue. In this way, you will already be students who grow up with the industry.

• **We know that you are graduates of vocational high schools. What are the three things that high school students should and should not do?**

The first is that they strictly follow the latest technology in the field they are trained in and transfer this technology to their minds. Second, they have to be incredibly patient and faithful, and they have to work hard

Third; love people, love animals, love nature, love air, love oxygen, love carbon dioxide, love leaves, love walls, love cups, love your peers, love water, love flowers, love the world, love life, love yourself, love your glasses. I say love in a nutshell.

(Interviewers: *Begüm IŞIKTAŞ, Timur SARF, Furkan Berk TEKİNKAYA*)

Students of ITU MTAL are going to experience the local and national oscilloscope

Students of Istanbul Technical University Vocational and Technical Anatolian high-school are going to experience the mobile based oscilloscope which was developed by a young Turkish engineering team called Compocket using only the local and national resources. The technology firm called Compocket has provided a meaningful support to ITU Vocational and Technical high-school which was established with the protocol signed by ITU and MEB as part of the 2023 educational vision. Authorities from ITU foundation donated 30 mobile based oscilloscopes produced by Compocket team.

ITU vice-rector Prof. Dr. Ali Fuat AYDIN, ITU rector advisor Dr. Ömer TONTUŞ, ITU Foundation Secretary-general Kenan ÇOLPAN, ITU MTAL Principle Prof. Dr. Hüseyin TOROS, İstanbul National Education assistant manager Serkan GÜR and one of the founders of Compocket Company Burak DENİZ have attended the visit took place at ITU MTAL.



During the presentation of the oscilloscopes, ITU Foundation Secretary-general Kenan ÇOLPAN stated that: “This is an important day for us. Compocket company is known to be a start-up who were graduated from ITU Çekirdek and have been through several start-up centers. They set up to help children to reach products which are quite expensive and cannot use in laboratories and bring together 3 or 4 of these products into one tiny sized product. The first product they introduced was the oscilloscope. As ITU Foundation we wanted to support this product and bought 30 of these products for ITU MTAL students from one of the founders of the company Burak DENİZ. It’s been a good example of cooperation. We hope that students in many Vocational high-schools at electronics and ICT students can make use of these products.”

One of the founders of Compocket, Burak DENİZ also stated that: “There are around 3500 technical high-schools in Turkey and there are 2 million students in these schools. Each year 15000 new electronics engineer candidates starts university. It will certainly contribute to the economy and students’ future by making these oscilloscopes reachable and affordable for this many students and let them produce new projects with these products. We are also glad that students from ITU MTAL will experience our product. We would like to thank ITU Rectorate, ITU Foundation, Provincial National Education Management and the Management of ITU MTAL.”



Oscilloscope is a tool which shows the alteration of electrical voltage dependent on time and it is an indispensable tool in electronics. Without gauges in electronics there cannot be any design, production or education of devices from smartphones to home appliances or to education in schools. The oscilloscopes that are used currently, which are all imported and have a size of a microwave oven, are expensive and quite complicated to use. Minis, shrinks the size of these devices roughly to a size that can fit in your pocket with the help of Industry 4.0 technology and thanks to mobile technologies it is also user friendly. Now, there is no need for those big devices; Minis lets you do all your gauges from your smartphones, tablets or computers. [ITU Institutional Communications Office.](#)



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