

IEL ROBOTICS



İstanbul Erkek Lisesi Robotics Team

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Who are we?

We are the Robotics Club, and the FRC Team of one of the best High Schools in Istanbul, Istanbul Erkek. Since our establishment in 2019 we are successfully representing our school in national and our country in international competitions.



Our Mission and Vision

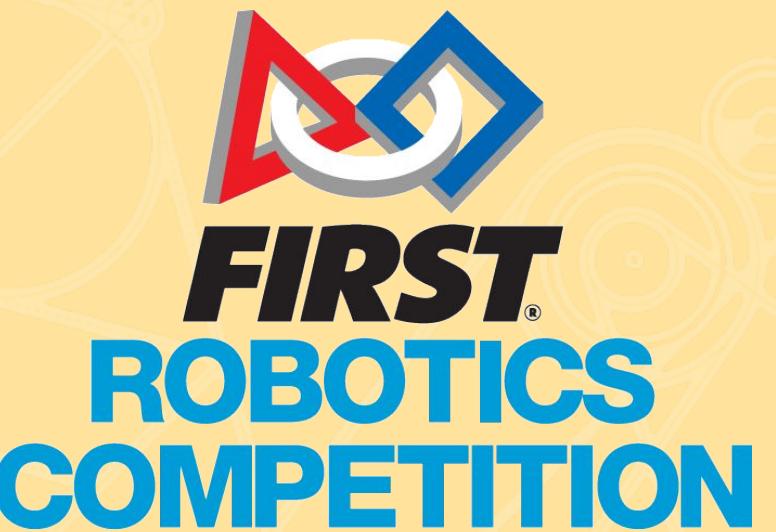
> Istanbul Erkek Lisesi Robotics Club provides an environment for its members to develop themselves in the fields of **robot construction, coding, design and engineering**. It represents its country, school and sponsors in the best way possible with its achievements in various competitions.

> Our club aims to instil the fundamentals of engineering in various segments of society, especially children and young people, with the trainings and projects it carries out inside and outside the school. It aims to provide **quality and well-equipped STEM education** to curious and enthusiastic students under the best conditions and to inspire them for the future of our country.



Competitions we took part in

> **FRC** is the world's most prestigious high school level robotics competition based in the United States. Competitors build a robot in accordance with the current year's competition theme in a period of about 2.5 months starting from January every year and compete with other teams at the international level.



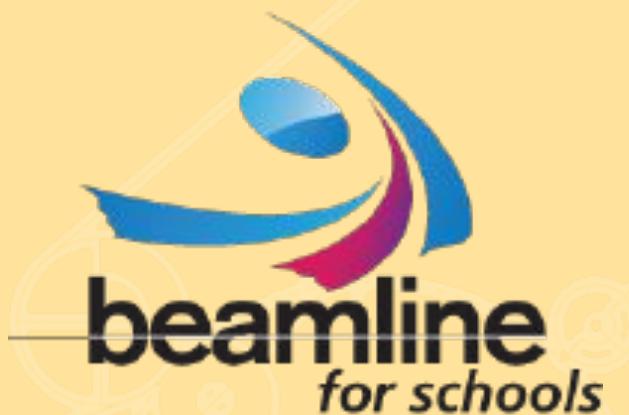
> **TÜbitak 4006 Science Fair**, organised by the Ministry of National Education, students present their projects in the fairgrounds of their schools.



> **MEB Robot Competition** is the largest international robotics competition based in Turkey, organised by the Ministry of National Education of the Republic of Turkey.

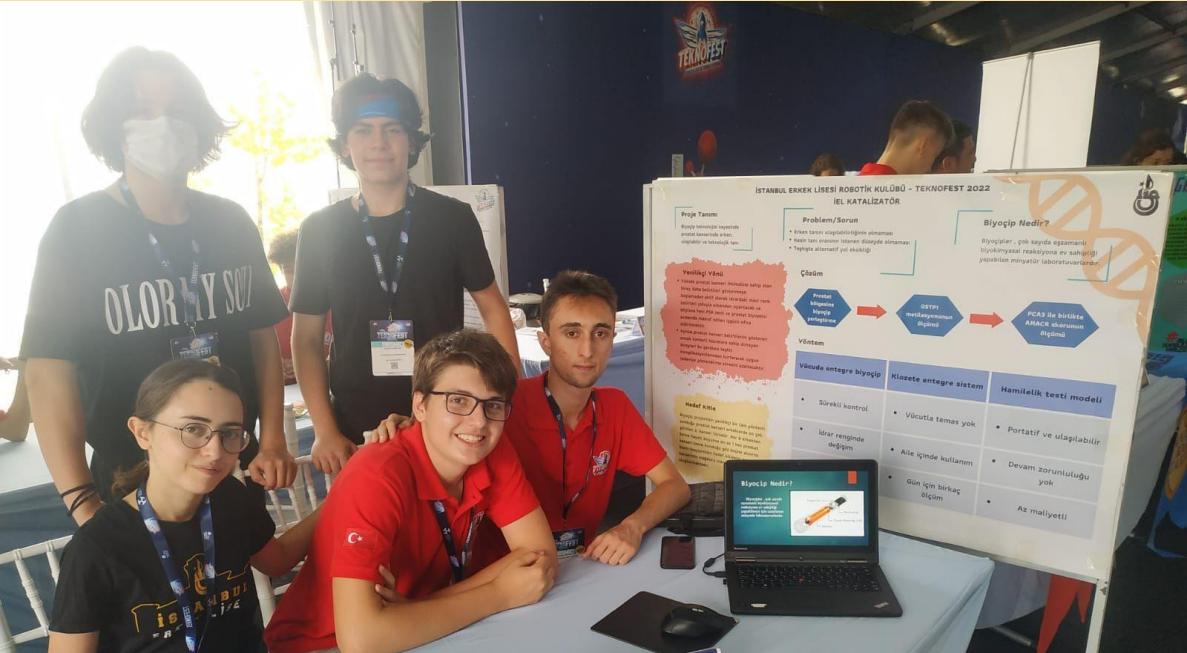


> **CERN BL4S**, in this competition organised by CERN, students get acquainted with particle physics, prepare experimental setups for the atom collider and present their ideas.



Competitions we took part in

Teknofest is the largest space and aviation festival organised in Turkey. Competitors show their projects in various categories to juries specialised in that field. At the same time, they have the chance to meet with local and national technology companies.



Daniel Düsentrieb Wettbewerb is a robot competition organised annually by the Federal Republic of Germany.

Jugend Forscht is Germany's largest science competition. Students present their projects on subjects such as technology, mathematics, computer science, physics to Germany's leading experts.



Riders Arena is Turkey's largest online robotics competition.

Our Achievements

- > In the 2021 Daniel Düsentryb Wettbewerb, we **finished first** in one category and 5th in the other.
- > In 2022 Riders Arena, we ranked in 3 categories and **came first in 2 of them**.
- > We were one of the 25 teams that qualified to be **finalists** in the world in 2022 CERN BL4S.
- > In the 16th MEB Robot Competition, we **ranked 4th** in Turkey in the free project category in 2022.



Our Achievements

- > In 2022 Teknofest, we made it to the finals in two categories we participated in. We were finalists in the biotechnology category with the biochip we produced and in the technology competition for the benefit of humanity with the **autonomous cargo drone** we produced.
- > In the German science competition Jugend Forscht, in which we participated as five teams, four of our teams qualified to participate in the state-wide competition, and one of our teams completed this stage as the first, competed nationwide, and won the **1st place in the Biology category in Germany** and qualified for the European Finals in Brussels.



Achievements of our FRC Team

- > We **came first in FRC 2021 Izmir Offseason** with the teams we are allied with.
- > We were awarded the **Rookie Allstar** award in FRC 2021 Izmir Offseason.
- > We **ranked 1st in FRC 2022 Bosphorus Regional** with our alliance teams and qualified to go to the championship to be held in Houston.
- > In **FRC 2023 Haliç Regional**, we competed in the quarter finals with our alliance and finished the competition **in 7th place**.



Our Projects

STEP PROJECT:

During the Corona period, we gave online lessons to more than 50 secondary school students in 2 semesters on subjects such as programming, brain teasers, German and English.

DODO KİTAP OKUYOR:

In cooperation with All Children Are Ours Association, we visited a primary school every week for 2 months and read books to students who were not in good financial condition and helped them with their lessons.

EL VER

In this study, which we carried out in cooperation with All Children Are Ours Association, we gave robotics lessons to secondary school students.

Our Projects

IELEV ROBOTICS CLASSES:

We taught the students at IELEV's secondary school how to be a young engineer with the basic robotics training we gave every week for 2 months, as well as electronics and programming lessons.

MULTITHERAPY:

We made a cheap and fun multitherapy bike and game of the same device so everyone can access it.

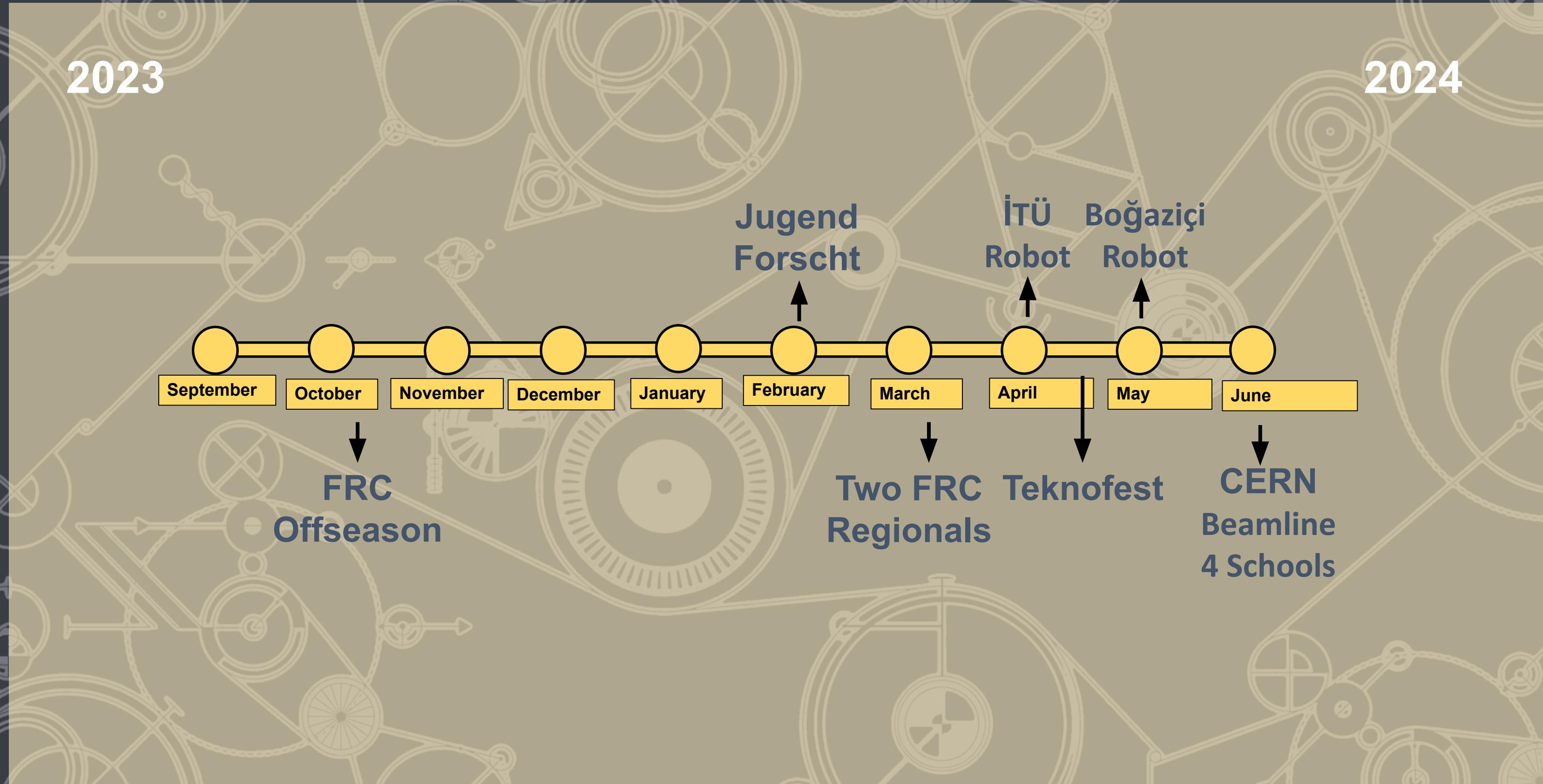
FRC CLASSES:

During the science weeks held at our school every year, we gave robotics training to students from our school and other schools and explained the FRC Competition.

STEM FOR GIRLS:

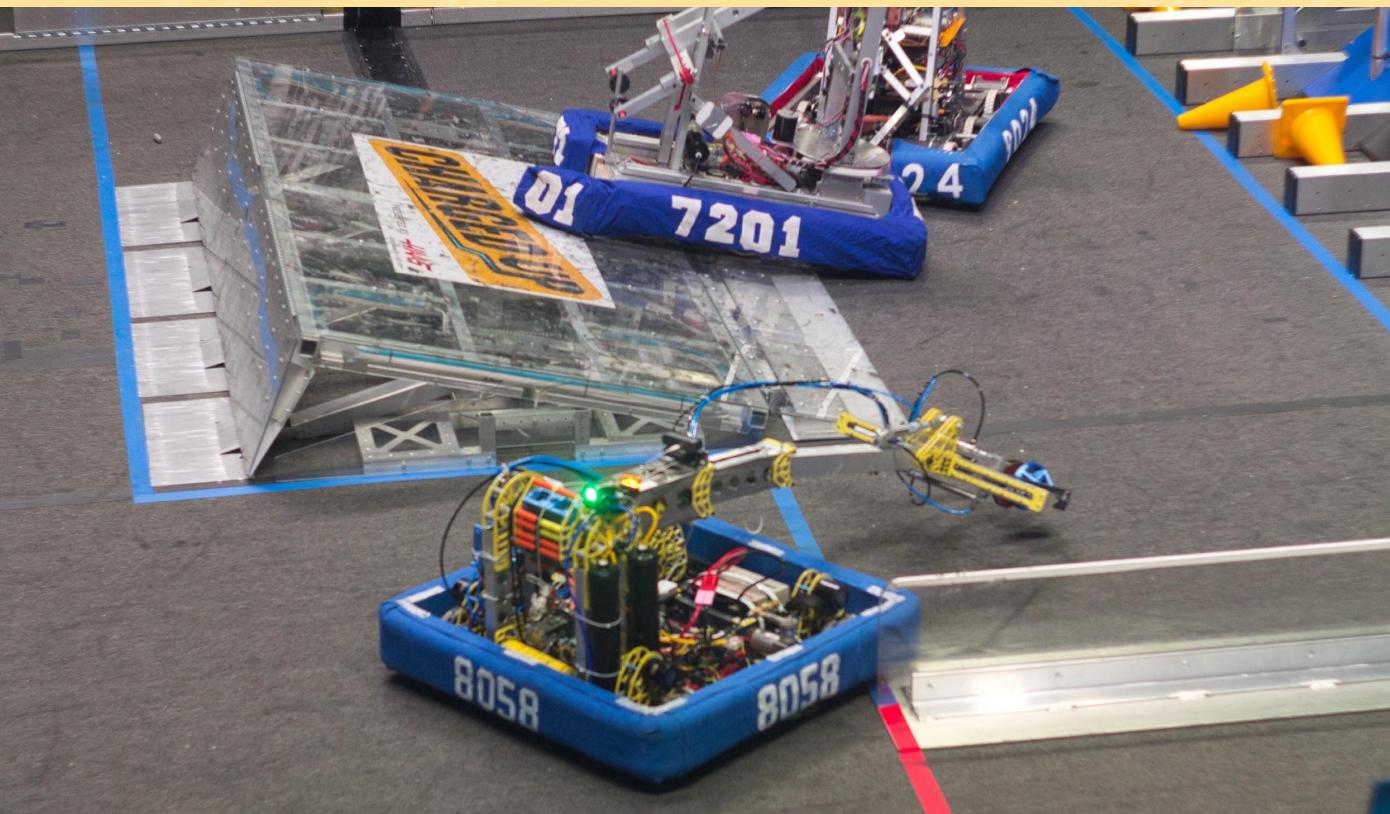
Together with the female members of five teams from the FRC community, we organized a workshop highlighting the role of women in the FRC and in the field of technology.

Calendar for Next Years Competitions



Projects in Our Plans

- > Participation in **2 FRC regionals** in Turkey in 2023.
- > Giving the **STEP Project** this year to more than 100 students in a hybrid form
- > Applying to **Teknofest** with projects from new categories
- > **Organising a Robotics Week** in our school, spreading awareness of STEM, technology and engineering among Turkish youth
- > **Teaching robotics in secondary schools** in eastern cities.



Projects in Our Plans

- > Establishment of an **FLL team** at the secondary school of the IELEV Foundation and support by mentors.
- > **Application for the Jugend Forscht** competition with new projects from other categories.
- > Organisation of environmental and industrial events.
- > Organisation of a debate tournament on gender equality in STEM subjects.



jugend forscht



Wir fördern Talente.

Our Expenses

IEL ROBOTICS EXPENCES	COST
ROBOT PARTS	15.000\$
REGISTIRATION FEE FOR COMPETITIONS	9.000\$
LOGISTIC	2.200\$
PR EXPENCES	800\$
TOTAL	27.000\$
IF QUALIFIED FOR THE FRC FINALS IN HOUSTON	+ 25000\$

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THANKS FOR YOUR SUPPORT AND INTEREST

