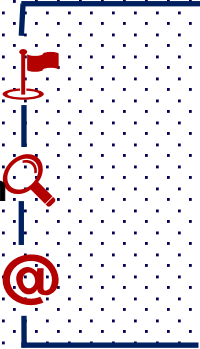


Universal American School

[www.etb-club.com](http://www.etb-club.com)

[info@etb-club.com](mailto:info@etb-club.com)  
050 9451937



*Week With Engineers*  
*Join the "EDU-TAINMENT" experience*

Week without walls with ETB

## ***About Us***

Engineers To Be is a team of actual engineers from different fields that offer engineering, coding and robotic programs. ETB has been running with the top premier schools in Dubai, Abu Dhabi and Sharjah offering different programs; after school activities, enrichment programs, STEM academies, developing Coding and STEM curriculums, and holiday camps.

## ***Our Qualifications***

Bachelor's & masters degree in engineering  
First aid & child safety training  
Public liability insurance covering all UAE  
Abu Dhabi Educational Council (ADEC) approval

## ***Week Without Walls – Engineering***

As a part of the unique learning experience; WWW organized by Universal American School, we are delighted to offer our Week With Engineers.

During this unique “EDU\_TAINMENT” experience, our students will be experiencing a full hands-on engineering environment. The program will introduce the students to the engineering world, they will learn about different engineering fields and experience a real life resemblance of an engineering project.

For this program students will be tackling a real life problem, and trying to come up with their own creative solutions and designs.

## ***Who can attend this program***

This program will be offered to middle and high school. The outline is the same for both, however the complexity and level of the project will be different. )The two groups will be running separately not together)

# Projects

Our students will be experiencing a full hands-on engineering environment. The journey will include every milestone of an actual engineering project. From coming up with a design, maintaining a budget, using different tools, prepare materials, building the projects, to testing their work.

It will be a great experience for our future engineers to experience how it is like to work on a real life engineering project along side our actual team of engineers. It will enhance their understanding of different engineering fields, problem solving skills, design aspects, understanding of coding logistics, and how to use different tools in a safely professional manner.

**Automated cranes;** this is such an amazing project that will introduce the future generations of engineers to one of the current technology trends. Cranes are a main part of many industries, whether its in construction sites, factories or warehouses, they are using “mechanical advantages” to make the work easier. Students will learn all about the mechanics of the cranes, how gears and pulleys can help create mechanical advantages to help with lifting heavy objects. Our experience wont end here; using modern sensors and different coding and programing skills our future engineers will have to modify the design of traditional cranes to lower the risks of human errors involved in using cranes. After studying some of the accidents that might happen while operating a crane, our engineers will use; coding, motion sensors, proximity sensors, and other modern techs, the students need to make sure the cranes safer, more efficient and easier to use.

\* Please note that the main focus will be on the mechanics and designs of the cranes, not the coding.

## ***Learning outcome***

This course will help the students improve and develop many of their skills such as; problem solving, critical thinking, team work, and communication skills. They will also learn many essential concepts such as:

- 1- How to design and plan for an engineering project
- 2- Learn about the different fields of engineering
- 3- Get familiar with using different tools safely
- 4- Learn about mechanics, gears and pulleys and how they can be used.
- 5- Learn more about electric circuits and how they are connected in different ways.

***Book your space now  
&  
Join the EDU-TAINMENT experience***

## *Fees and Dates*

Middle school: Feb, 9<sup>th</sup> – 13<sup>th</sup>

High school: Feb, 23<sup>rd</sup> – 27<sup>th</sup>

Fees are: 945AED for the week (price includes VAT)

For registrations or more details please contact us on:

[info@etb-club.com](mailto:info@etb-club.com)

+971509451937

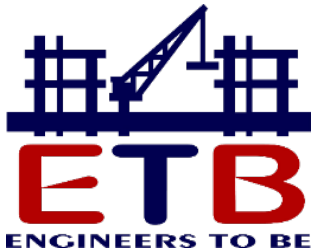
**Understand**

**Design**

**Build**

**Test**

**Compete**



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