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## STEAM Center at SJS

February 23, 2024

Dear Parents,

We are thrilled to announce the opening of the STEAM Center at Saint Joseph School in partnership with STEAM Talents by Talent Ivy. This initiative will offer courses for students who are interested in exploring the fields of Science, Technology, Engineering, Arts, and Mathematics. Courses include 3D Printing and Design, Laser Cutting, Coding, Robotics, Electronics and more. These courses will provide valuable learning opportunities for our students from as young as **4 years old and till the age of 18**. We encourage you to consider enrolling your child in these enriching programs. Courses start on **Monday, March 4, 2024**, and you can find the course offerings overleaf.

For those who are interested in joining STEAM courses, click the link below and fill in the form by **Friday, March 1, 2024**.

<https://forms.office.com/r/gE2Mc4p3v3>

Kindly register your children at the Students' Accounts Office with Mrs. Leila Khamis, and then settle the payment at the School Cashier's Office with Mrs. Doris Rmeily between **February 26 and March 1, 2024**.

For more information, please contact the STEAM Center Support on 81-556813 or the IT Manager, Mrs. Gisèle Yammine Karaa, on 04-925005.

Sincerely,

The Administration

## Courses Schedule

	Description	Course Duration	Timing	Session Duration	Price in USD
<b>Ages 4 - 6</b>					
<b>Qobo</b>	Introduction to coding concepts, program assembling, and software programming.	12 Sessions	3 - 4:30	1.5 hrs.	130
<b>Engino Junior Engineers</b>	Our Junior Engineers, both boys and girls, are just starting to explore their physical world and they are full of curiosity and determination! They are extremely active, have short attention spans, lower control of small muscles in their fingers, and still develop their hand-eye coordination. The products and solutions by ENGINO for this age group have been specifically designed to increase spatial awareness and enhance their dexterity skills. Our QBOIDZ innovative building system can lead to increasing complexity as Junior Engineers grow, facilitating a smooth transition from practical to logical thinking.	12 Sessions	3 - 4:30	1.5 hrs.	130
<b>Ages 6 - 9</b>					
<b>Engino Young Engineers</b>	At this age children have gained finer motor skills and enter the stage of logical thinking development. They move away from random trial and error and are able to visualize their solutions more methodically. As they grow, they apply inductive reasoning and can relate a specific experience to a more general principle. This ability enables them to carry out basic experimental activities and gain basic knowledge around STEM disciplines. Young Engineers can now construct more elaborate models using the ENGINO Classic building system. This patented system comes with a library of finer-detailed snap fit parts and simple mechanisms, and sets the foundations for coding.	12 Sessions	To be set	1.5 hrs.	130



<b>Ages 9 - 12</b>					
<b>Engino Master Engineers</b>	At this age children develop a more global, integrated, and complex self-image. Succeeding in creating ® functional models with ENGINO is something that fuels a strong, positive self-image that lasts for a lifetime. Children contemplate about their future careers and begin to explore their innate talents, and it is very important that they are provided with a wealth of experiences, gained through engaging and smart, interdisciplinary STEM activities. The products for Master Engineers combine the classic ENGINO rods and connectors with our high precision technical parts, leading to open-ended advancements that spark critical thinking and innovation.	12 Sessions	To be set	1.5 hrs.	130
<b>Ages 12 - 16+</b>					
<b>Engino Professional Engineers</b>	After 12, children move into adolescence and as young adults begin to develop abstract thinking. They can use deductive reasoning and follow the Scientific method to test their hypotheses. At this stage, teens can think multiple potential solutions to problems and can be guided to apply the Engineering Design method. Starting from a real-life problem, they will identify constraints, research to gain background knowledge, design their own ideas and use the ENGINO mechanical parts to develop a prototype which they can test, evaluate and modify. Professional Engineers are mature enough to learn complex coding techniques to program advanced robotic models.	12 Sessions	To be set	1.5 hrs.	130
<b>Ages 12 - 18</b>					
<b>City of the future</b>	Understanding of smart cities, Future of Urban Infrastructure, building of complex system - A course fostering creativity, responsibility, teamwork, and developing skills like 3D Printing, Coding, public speaking, and manual skills.	16 Sessions	To be set	2hrs.	250
<b>Green Engineer</b>	For Space addicts, this course lacks no challenges! Experimentation, Robotics, 3D Printing, Coding, Laser Cutting and more awaits you on your mission to Mars.	16 Sessions	To be set	2hrs.	250
<b>Global Warming</b>	Come with us on a unique climate expedition where each of you plays an important role. Learn about our earth and the risks that threaten our environment and find solutions to such problems using sustainability concepts, environmental sciences, biology, chemistry and more like 3D printing, Laser cutting, Coding...	16 Sessions	To be set	1.5 hrs.	250



<b>Ages 14 - 18</b>					
<b>Experimental physics</b>	Learn Physics Basics and Experiment Building Different Circuits	4 Sessions	To be set	1.5 hrs.	120
<b>Electronics</b>	Learn Electronics Basics and Experiment Building Different Circuits	4 Sessions	To be set	1.5 hrs.	130

