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Monthly Educational Magazine





OUR VISION

To be pioneers in the management of excellence in educational performance and fostering talent and Innovation

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150 Exhibitors

in Dubai at Global Maker Faire in February

FabLab UAE Participates in WorldSkills Asia - Abu Dhabi 2018

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Robotics Championship (FLL)

Hamdan Center... A Promising Project



- The visitors to the Hamdan bin Rashid Al Maktoum Center for Giftedness and Creativity and the observers of its activities will certainly notice the great enthusiasm of registrees, students or otherwise, to accomplish personal achievements in the field of manufacturing and innovation. This is especially because the Center provides logistic support, including consultancy and training, as well as providing the suitable conditions and incentives to generate innovative ideas and make them available for all the requirements to transform those ideas into innovative projects. Those requirements include, for example, components, raw materials, and specialized devices and machines that are within reach.
- It is interesting to note that the "Innovators" competition organized by the Center has had a good impact on the improvement and development of the school output image. This was reflected by the good results of the students' performance in terms of the quantity of innovations on the one hand, and the innovative value of the models and ideas on the other one. The said results are not less than those with international standards, taking into account the short-term operation of this qualitative center, which we expect to become among the most promising educational projects in the service of talents and innovators.
- "Unleash Your Creativity" is a wonderful slogan for the new edition of "Innovators" competition. We aspire that it will be a stimulating and encouraging educational message for each parent, school and educational center, to encourage students to take advantage of the opportunities offered by the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance in the field of talent and innovation.
- The Center is an excellent educational destination for all, young and old, males and females, to spend fun time, involve in self-challenge, discover talent, satisfy invention and innovation appetite, and make personal achievements that may go far and turn into global ones.

Abdul Noor Ahmed Al Hashimi Chief Editor

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The Award News







Dubai - 'Akhbar Al Tamayoz'

The Hamdan bin Rashid Al Maktoum Foundation Distinguished Academic Performance marked the 47th National Day of the UAE, in the presence of many officials and employees of the Foundation at its premises in Al Hudaiba Awards Building located in Dubai. Programs and competitions were organized for the staff.

In line with the Year of Zayed, the Foundation allocated a special section displaying the works and achievements of the late Sheikh Zayed bin Sultan Al Nahyan. Gifts were also distributed to all attendees, including a flagstaff that was manufactured at FabLab UAE, affiliated to the Founda-

Congratulations

Dr. Jamal Al Muhairi, Deputy Chairman of the Board of Trustees and Secretary-General of the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Per-

Dr. Jamal Al Muhairi:

Our leadership spares no effort to please Emirati people and maintain their achievements and assets

The founding fathers' will was united and their determination was sincere to establish country that creates bright history

Hamdan Foundation will insistently and resolutely continue to build bright future based on talent, innovation, and supporting all the distinguished



formance, delivered a speech at the ceremony, in which he extended warm congratulations to His Highness Sheikh Khalifa bin Zayed Al Nahyan, President of the UAE; His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai; His Highness Sheikh Mohammed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces; and their brothers, members of the Federal Supreme Council Rulers of the Emirates, their Crown Princes and deputies. He also extended his congratulations to the people and residents of the UAE on the occasion of the 47th National Day of the UAE, wishing that Allah would continue to lead the wise leadership towards success and prosperity. He also hoped that the people of the UAE would live in peace and security and continue to enlighten their achievements with the values of tolerance



and coexistence on the land of Zayed.

Bright History

Al Muhairi said: "Every year, on 2 December, we celebrate the National Day of the UAE, which brings to mind the anniversary, at which the will of the founding fathers was united and their determination was sincere to establish a country that creates a bright history, by which every Emirati is pride of. This occasion occupies a special place in our hearts as it reminds us of all the achievements and efforts exerted by the people of the UAE that enabled them to withstand the challenges, which in turn led to many great achievements, one of which was the launch of the satellite "KhalifaSat", setting the finest examples of hard work. All of this can be traced back to the wise vision of our leadership that strives constantly to reach top ranks in all fields and areas.

Rise and Development

Al Muhairi added "During





this national occasion, we are keen to express the spirit of loyalty and belonging to the country and its leadership, which spares no effort to please the people of the UAE and maintain their achievements and assets. All of us -- each in his/her own area -- work constantly to contribute effectively to the rise and development of our country, that is why, we, at Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance, will continue to build a bright future based on talent, innovation, and supporting all distinguished people with great determina-tion, and in keeping with the approach of the late founder Sheikh Zayed bin Sultan Al Nahyan, and in line with the strategies of the UAE in a way that meets the aspira-tions of its people." At the end of the ceremony, the staff and employees of the Foundation carried colored plates to form a painting of the UAE flag.





Organized by Hamdan Foundation and Considered Largest Global Event for Innovators, Talented

Exhibitors, 20 Specialists in Dubai at Global Maker Faire in February at Global Maker Faire in February

Dubai - 'Akhbar Al Tamayoz'

From 26 to 28 February 2019, Dubai will host the Global Mini Maker Faire, one of the world's largest events for innovators, technology enthusiasts, artisans and amateurs.

The Faire, which is organized by the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance at the Dubai World Trade Center, will fea-

ture more than 150 exhibitors in various fields of science and art, 50 workshops, and 15 educational lectures. The event will also welcome 20 specialists and experts from around the world in the fields of industry

and innovation, among

many other interesting events and artistic performances.

Sharing Innovations

The Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance called for all talented and innovative students to join the Faire, which would be the largest international events to be taking place

in the UAE, and share their innovations as well as gaining additional expertise at this global event.

The Faire will include various products in the fields of engineering, technology, science, education, applied and culinary arts, as well as various other hobbies and interests.

The Hamdan bin Rashid Al Maktoum Foundation has opened the door to volunteer participation with matters related to organizing the event. Those who wish to participate can register by filling out the application form at: http://bit.ly/Dubaimakerfaire.

Best Practices

The Faire aims to share experiences, display best practices, review hobbies and achievements, in addition to offering manufacturers the chance to meet and get to know each other.

The Fair welcomes ideas of new projects, and provides them with the opportunity to be brought to light and carried out, for the Faire is looking towards discovering people who have the ability to turn dust into gold, and pull creative ideas out of thin air.





First Public Service Center at UAE Level for Students and Public

Hamdan bin Rashid Center for Giftedness and Creativity...

Support, Guidance, Training in Digital Fabrication

Dubai - 'Akhbar Al Tamavoz'

The Hamdan bin Rashid Al Maktoum Center for Giftedness and Creativity, which is affiliate to the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance, undertakes the task of selecting the best Emirati talents in the UAE and refining their skills according to the latest educational systems. These systems are aimed at upgrading the local education system and opening the students' horizons in various academic and educational fields. The Center comes in line with the objectives of the Foundation, which support the efforts of the UAE in building a sustainable future based on innovation and talent.



Dr. Jamal Al Muhairi: We are proud to select best talented and creative students



Since its establishment, the Center's administration has succeeded in bringing to-gether some of the best Emirati students from a variety of schools in the UAE, in order to guide them through the right path towards obtaining more academic knowledge, experience and training, in accordance with the latest educational systems inside the best technological laboratories in the world. The Center also aims at getting the students involved in many local, regional and global scientific and academic competitions in various scientific and technological fields with the aim of stepping into the global challenge in the future.

Culture of Creativity

Dr. Jamal Al Muhairi, Deputy Chairman of the Board of

Trustees, and Secretary-General of the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance said: "The Hamdan bin Rashid Al Maktoum Center for Giftedness and Creativity aims to spread the culture of creativity, innovation and production in all sectors of the society. It is also the first public service center at the UAE level for both students and the public as it provides support, guidance, training and digital fabrication opportunities to students and the public throughout the vear."

He then expressed the Foundation's pride in selecting the best talented and creative students to join the Center with the aim of enhancing



their talents and providing them with the opportunity to spread the knowledge that they were able to attain in their schools and among their friends. This would encourage everyone to adopt modern science methodologies and scientific applications to lead the UAE in various fields in the near future.

In this context, the Hamdan

bin Rashid Center for

Giftedness and

Promising Talents

Creativity highlights a number of promising talents that would be able to carry the flare of knowledge and serve as role models for other students to achieve a bright future that prevails throughout the UAE

Marwan Mohammad Marwan Nasser Al Ali, a 15-year-old

student at the ATHS school of Applied Technology in Dubai, who has joined Hamdan Center for more than five years now, said that his academic level has improved significantly in programming and computer science. thanks to the Center. He added that these skills are what he sought before joining the Center, for he had undergone a series of IQ and programming tests in order to be enrolled.

Marwan's enrolment was not coincidental, for he was gifted with many scientific talents. Since he was only 10 years old, Marwan was interested in physics and programming sciences -- a set of skills that he was able to refine inside the Center. Later on, he participated in various local. Arab and inter-

national programming tournaments. Three years ago, Marwan participated in the FLL Championship for Robotics at the local, Arab and international levels. He was also able to master 3D printing skills, in addition to many personal skills such as public speaking, leadership, interaction and communication skills among many others.

Al Ali aspires to specialize in physics and technological applications due to their great importance in various industrial and research fields.

Robotics Designer

Khalifa Nasser Lotah, 12-year-old student at Dubai School of Modern Education has been a member of Hamdan Center for Giftedness and Creativity for three years. He said that he used to have some background knowledge in areas related to 3D printing, and after joining the Center; he was able to attain more experience in 3D printing and advanced programming languages. He has also become a robotics

has helped him become a professional in these areas rather than just being a hobbyist. In the Future, Lotah hopes to become a specialist in 3D applications, which would include various fields of life ranging from robots, machines and

and big structures. He also envisions that this field of science



The Award News

is expected to be one of the best solutions to establish human settlements on the moon and Mars within the few coming decades.

Future Prospects

For her part, Moza Khaled Obaid Al Mansouri, a 13-yearold student at the Jumeirah Model School, who joined four years ago, said that the Center provided her with future prospects, and helped her discover her hidden talents in both scientific and literary fields. Al Mansouri was able to join the Center after undergoing several collective and individual tests. She also mentioned that one of the main reasons she was selected was her distinctive mathematical skills.

Prior to joining the Center, Moza participated in "The Knights of Mathematics" Competition in Dubai, where she was able to place first, in addition to receiving the Hamdan bin Rashid Al Maktoum Award for Distinguished Academic Performance under the 'Distinguished Student' category. After joining the Center, Al Mansouri was able to learn many programming languages and 3D printing skills, in addition to the manufacturing of robots, among many other personal and leadership skills. Al Mansouri wishes to become a robot engineer because she believes she can apply this knowledge in numerous fields that aim to facilitate the lives of human beings in homes and various industries.

Pioneership

Abdullah Omar Al Bishr, 11 years old, a student at Al Ittihad National Private School, joined the Center two years ago. He explained that prior to joining the Center he was interested in the manufacture of drones and robots, adding that he was able to work on all of these applications as part of large teams.

He also participated last year in a training program organ-ized by the US space agency NASA to study and design jet missiles, as he was able to design a flyable model rocket using the latest technology.

Al Bishr aspires to become an aerospace engineer in





Marwan Al Ali:

My academic level improved in programming and computer science

.....

Khalifa Lotah:

I became a robotics designer at the Center

Moza Al Mansouri:

I discovered my hidden talents in scientific and literary fields





the future, as this technology has a promising future in the space industry, which has become a fertile ground for the UAE. This comes in line with the UAE's strategy to send a mission to explore Mars and the manufacture of KhalifaSat Satellite. Al Bishr is eager to be a pioneer in the field of satellite and space-born propulsion missiles production in the near future.

Programs and Activities

Sarah Al Hantoubi, 13 years old, who joined the Center four years ago, said that before joining the Center, she participated in various mental calculation competitions, known as UCMas, and she was able to surpass the first two stages, and is still participating in the ongoing advanced stages.

Al Hantoubi learned the applications of 3D printers, robotics and programming within the Center, through which she participated in many local mathematics, physics and robot design competitions.

Al Hantoubi added that owing to the encouragement that







I designed a flyable model rocket using latest technology

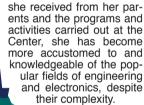
Sarah Al Hantoubi:

I learned the applications of 3D printers, robotics, and programming

Fatima Al Amiri:

The Center helped me develop my academic, leadership and communication skills





She also said that the Center provides the students with various equipment, research and advanced laboratories that cannot be found in traditional schools. This in turn, provides her with more opportunities for early inno-

vation in engineering applications and the ability to conduct various experiments.

Al Hantoubi said that she is looking to specialize in engineering in the fields of design, invention and innovation. and that her ambition is to be among the youngest inventors in the UAE.

Talents

In a related context, Fatima Faraj Hasan Al Amiri,

a 12-year-old student at the Taryam American School in Sharjah, joined the Center four years ago. Fatima has various talents and background knowledge in the fields of mathematics and science, in addition to the fact that she participated in the FLL Championship for Robotics through the Center as part of a team. Al Amiri stressed that the

Center helped her develop her academic, leadership and communication skills, and that she was able to eliminate the anxiety related to public speaking, from which she suffered during her years at school, adding that she became a public speaker during various events due to the training she received at the Center. At the Center, Al Amiri learned about the different types of robots and how they were manufactured and designed, starting from the initial stages of manufacturing and ending with the most complex steps. She also became involved in numerous scientific exhibitions and national and international robotics competitions.







Sponsored the Electronics Challenge and Introduced Services Provided by **Hamdan Educational Foundation**

FabLab UAE Participates in WorldSkills Asia - Abu Dhabi 2018



Abu Dhabi -'Akhbar Al Tamayoz'

FabLab UAE, affiliated to the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance participated in Worldskills Asia International Competition - Abu Dhabi 2018, which was held from 27 to 29 November, under the patronage of His Highness Sheikh Abdullah bin Zayed Al Nahyan, Minister of For-eign Affairs and International Cooperation, Chairman of the Emirates Foundation for Youth Development. FabLab UAE has contributed

to sponsoring the Electronics Challenge in the competition, in which more than 500 contestants and officials representing 20 countries from various continents participated.

Quantum Leap

During Competition, the which aims to promote the Asian talent system to reach the highest international standards necessary for industrial progress, and to achieve a quantum leap in the technical and vocational education system across all the countries of Asia, the participants received the chance to view projects carried out by FabLab UAE.

500 contestants and officials representing 20 countries from various contents participated in WorldSkills Asia

New forum for Asian and international skills targeting people between 18 and 25 years old

TVET

The participants were also introduced to the services provided by the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance, during the competition, which is considered one of the most important platforms to building a promising young generation in Asia.

Wordskills Asia International Competition is a new forum for Asian and international talents and skills that are necessary for achieving economic growth. The competition targets people between the ages of 18 and 25, and is held once every two years in one of the member countries of Worldskills Asia Organization.











Both Teams of Hamdan Center

Qualify to Participate in National Robotics Championship (FLL)





Dubai - 'Akhbar Al Tamayoz'

Both teams of the Hamdan bin Rashid Al Maktoum Center for Giftedness and Creativity, which is affiliated to the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Performance, Academic have been qualified to participate in the National Robotics Championship - FIRST LEGO League (FLL-2019).

This came after the teams were able to achieve second and third place during the local championship, which was held in Dubai. The team also placed first in the Table Challenge category.

This achievement encourages the Center's students to participate in international challenges, in addition to being a great opportunity to acquire the necessary expertise, especially as they represent an elite group of innovators and creators.

The participation of the students of the Hamdan bin Rashid Al Maktoum Center for Giftedness and Creativity comes in line with the strategy set by the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance in the field of talent and innovation. These activities are also consistent with the government's approaches that aim to support the work of educational institutions, and enable students to demonstrate their unique potentials and capabilities, as well as providing them with opportunities to prove themselves and achieve their creative as-

The Foundation seeks to support and assist the institutional efforts that are dedicated to achieve nationwide excellence in education, talent, and innovation, as well as enhancing the competitive educational environment.















Dubai - Faten Matar

A Kuwaiti research winner of the Hamdan bin Rashid Al Maktoum Foundation for Distinguished Academic Performance during its 20th session, under the category of 'Best Educational Research in the Arab World' has shown that aggressive behavior could account for 54 percent of contrast as a variable through which the perceived body image of ordinary students that do not suffer from obesity can be predicted.

The Researcher Dr. Majid Mustafa Al Ali, Director of Educational Activities Department in Hawalli Educational Zone in Kuwait, said that the Hamdan Foundation Award helps strengthen his spirit of scientific research and drives him towards participating in interna-tional competitions in this field. He pointed out that the UAE has become an attractive center and source for educational and scientific competitions, as it exports creative ideas and products to the world.

In his study titled 'Body Image Perception and its Relation to Some Psychological and Educational Variables in a Sample of Secondary School Students Suffering From Obesity Compared to Normal Counterparts in Kuwait,' the researcher

showed that there are statistically significant differences on the aggressive behavior scale between both genders suffering from obesity. Male students tend to aggressive behavior, while females tend to academic achievements. He also explained that the study concluded that there are statistically significant differences between genders

on the scale of social anxiety and academic achievement in the sample of normal female students, and on the scale of aggressive behavior in males. Dr. Majid Al Ali explained that the study sample consisted of 215 male and female students from the general secondary school in Al Ahmadi Governorate, ranging from 15-19 years old. The study methodology

included scales of Body Image Perception, Social Anxiety, Aggressive Behavior, and Aca-

Body Image

demic Achievement.

He mentioned that the Body Image is defined as "The mental picture and the perception of the individual about the physical formation and the efficiency of the functional performance of that entity". The body image is determined by many factors such as the by many factors such as the shape of the body parts and their asymmetry, the functional efficiency and the social perception of the body image. He pointed out that the body image is the mental image an individual may have with regards to his/her body as a whole, including the physical and functional characteristics, which in turn have an effect on personal evaluation. The body image includes one's awareness of the body shape, size, perimeters and internal correlations among different body parts. The body image stems from both sensory and unconscious sources, which are essential components of the perception of oneself.

He continued saying that body image is not fixed, and can be influenced by attribution and difference situations. Despite the fact that there are tendencies or predispositions through which the individual relies on particular cognitive, and certain conscious and sentimental ways to perceive the body, many situational or contextual events stimulate the negative body image. Understanding the context in which the negative body image is generated is of great clinical significance.

Study Objectives

He indicated that the current study aimed to identify the relation between the body image and some psychological variables in secondary school students who suffer from obesity compared to their normal counterparts in Kuwaiti schools. One of the main objectives was to highlight the correlation be-



tween body image on one hand and social anxiety, aggressive behavior, and academic achievement on the other.

The study also aimed to analyze the differences between the average score among students who have positive body image and those who have negative ones. The results were presented on the scale of social anxiety, aggressive behavior and academic achievements to compare the results between students who suffer from obesity and others who do not.

It was also intended to identify the different trends between the average scores of male and female students on the above-mentioned scales, and to detect the differences in scores among students who suffer from simple, medium and severe levels of obesity, and apply the results on the scales of body image, social anxiety, aggressive behavior and academic achievement.

Study Hypotheses

In light of the theoretical framework of the current study, and with reference to its objectives and the results of previous studies, a hypothesis

can be deduced that there is a statistically significant positive correlation among the results that have been shown on body image, social anxiety, aggressive behavior, and academic achievement scales in the overall study sample.

The study results have also shown that there were statistically significant differences among the average scores of students with positive body image and others with negative ones, especially after applying the results on body image, social anxiety, aggressive behavior and academic achievement scales in the sample of students who suffer from obesity compared to their normal counterparts.

The researcher also pointed out that social anxiety, aggressive behavior and academic achievements can help predict the body image of students from both genders in the study sample, who suffer from obesity compared to their normal counterparts.

He then added that one of the main reasons that led to his success in obtaining the Foundation's award were competitiveness, determination and self-actualization defiance, and

the desire to raise the status

of Kuwait, and help it assume high ranks in international forums

He pointed out that the Award helped strengthen his spirit of scientific research and drove him towards participating in international competitions in this field. The Award also helped him attain self-actualization, and strengthened his creative skills in the field of scientific research in addition to increasing the use of creative science fiction, for it assists in yielding a new generation of researchers capable of disseminating scientific and educational ideas in accordance with fruitful research criteria.

Goals and Strategies

The researcher also pointed out that the importance of educational research lies in its results and recommendations that aim to achieve many educational goals and strategies. These researches play a vital role in shortening the distance, time and costs needed to achieve those goals and strategies, as well as obtaining the desired educational outputs.

Dr. Majid Al Ali concluded by saying that the UAE has become a center and a source for educational and scientific competitions, as it produces scientific creative ideas and products to the world. These achievements can be attributed to the strategies and plans drawn by the management of the Foundation and His Highness Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai and the UAE Minister of Finance.