

Mosque of Mashhad Branch

The mosque of the Islamic Azad University's Mashhad branch, opened in 2008, covers 1,170 sq/ms of the cultural complex in the branch. Mashhad branch's cultural complex is host to different offices and associations, including representative office of the Supreme Leader, student associations of daily prayer and Quran, exhibition halls, deputy of cultural and social affairs and many others.



POINT OF VIEW

2nd Successful Fetal Surgery Performed in Shiraz



Surgeons in Shiraz managed to successfully perform a fetal heart surgery for the second time in this region. Dr. Hamid Amouzegar from the fetal surgical team at the Shiraz University of Medical Sciences said this procedure was performed on a fetus diagnosed early as having heart problems. Dr. Amouzegar noted that this surgery has been unprecedented in the region, adding: "The fetus was suffering from severe pulmonary valve stenosis and the right ventricle in its heart was smaller than those in normal fetuses. Without this surgery, the problem would have persisted on, ailing him throughout his life." He maintained that in the surgical procedure, the pulmonary valve stenosis was relieved through balloon dilatation; he also added that thanks to this, the proper conditions have been provided so that the right ventricle of fetus' heart could grow and this would allow the child to have a normal, healthy life after birth.

According to him, Shiraz Embryo Research Center was inaugurated four years ago in the presence of professors of pediatric surgery, gynecological surgery, children cardiology, neurology, urology and veterinary. This center, in addition to tracing fetal problems, specializes in treating other ailments such as heart valve stenosis, as well as dysfunctional diaphragm, kidney and problems in the brain of the fetus before birth. He said: "Performing a heart surgery on a fetus in the 20 to 30 weeks of pregnancy can prove valuable since it helps the chance of a normal life for the child. Failing to do so will pose the threat of persisting problems throughout life, like heart problems which ails many people." Amouzegar emphasized on the importance of performing this kind of surgery in an appropriate age of the fetuses, adding that the first fetal surgery in Iran was performed three years ago and the child is now in perfect conditions, leading a healthy and normal life.

CONTACT US

We welcome your views and memos on the related topics. You can contact us through: english@fdn.ir.

Masjed Soleyman Branch

3 New Knowledge Companies, 6 New Laboratories



4 new programs of Industrial Management, Financial Management, Food Biosciences and Technology and Materials Science and Engineering were added to the doctorate curriculum



Director of Masjed Soleyman branch of the Islamic Azad University says: "With the purpose of decreasing our reliance on tuition in mind, also towards commercializing knowledge, founding of 3 new knowledge companies is in order."

Dr. Masoud Shahbazi summarized the achievements of Masjed Soleyman branch and said: "In the period of 2014-2015, 154 articles were published in ISI or credible domestic journal, 85 of which also presented in national and international conferences. Also, we were successfully established 6 new laboratories, added more than 3,000 titles to the library and held the first startup weekend of Masjed Soleyman. This branch was able to attract 100-percent of the estimated research finances and to upgrade the software and hardware of its computer system. Also, from 2014 we started the plan of attracting external research projects as a possible income source and in this period, faculty members of Masjed Soleyman have signed 8 contracts in

this regard, some of which are in the completion phase."

He announced that 29 training programs were held for the staff (faculty member or not) to improve their efficiency and 2 courses were offered externally for the employees of the municipality. He continued: "A thinking room for the students, lecturers and administrative staff is functioning in the branch which has the purpose of directing the collective wisdom towards practicality. Also, 4 new programs of Industrial Management, Financial Management, Food Biosciences and Technology and Materials Science and Engineering were added to the doctorate curriculum. Aside from that, 8 new master courses including Accounting, Nano-Physics, Training and Education Sciences, Public-Finance Management, Industrial-Finance Management, Guidance Consultation, Industrial-System Management and Geo-Physics alongside 11 undergraduate and 3 associative courses were created."

According to him, all this has increased the

overall score of the Masjed Soleyman branch and this combined with further plans will be used in the way of raising the standing of this unit among all the branches of the Islamic Azad University. He remarked: "From here on, we are planning for the publication of new science journals, increasing the quantity and quality of the branch's higher studies, establishment of our virtual branch and expansion of our relations with important domestic and international universities. Also, founding 3 new knowledge companies under the umbrella of less reliance on the tuition and creating an alternative income source is in our order. With this, we would be able to offer our academic services to the industries in the form of training courses or research projects."

In the end, he appreciated the support and aids offered by the students and staff of Masjed Soleyman branch of the Islamic Azad University, also the local authorities of this town and those at the head office of IAU, saying that his management is fully committed to the development efforts across the region.

Iran's News

Iran Designs Wearable Robot



Iranian researchers at Amirkabir University of Technology have successfully designed a wearable robot (exoskeleton) which can enhance the movement of human beings. Faezeh Eskandari, postgraduate student of biomechanics-bio-medical engineering, explained this robot and said this exoskeleton is of the branch of wearable robots which attach to the body and improve user's ability for movement.

These robots are applicable in different fields, such as physical therapy and rehabilitation. Also, they are suitable for activity in dangerous circumstances usually seen in the military and industry. She added: "In the military, this robot can move heavy objects in rough terrain, saving the time and energy of the human units. Also, in medical rehabilitation, people suffering from motor

disorders can wear this robot to regain a part of their abilities. In the industry, the wearable robots, aside from moving heavy objects, are useful since wearing them would enhance the workers' abilities and reduce the possibility of physical injuries." Referring to the high cost of producing wearable robots and the complexity of controlling and guiding them, she said: "In this project, we focused on an exoskeleton for the lower body which besides benefiting from biomechanics, is much simpler and cheaper compared to current models."

Emphasizing on the enhancements added to the software, Eskandari said: "The positive points of this design are its simplicity and innovation. Next, it is going to be tested on living samples so its performance could be evaluated."

Iran Builds 3D Dual-Nozzle Printers



Iranian Research Organization for Science and Technology (IROST) have designed and produced dual-nozzle 3D printers with the application of producing two-color images for medical branches. Shahin Khoshsookhan, project manager of 'designing and developing dual-nozzle 3D printers', said that most 3D printers developed in the country are limited to just one nozzle and one color and this gave him the idea of developing a dual-nozzle printer which allows two-color prints. 3D printing is the process of producing three-dimensional solid representation of an object - of virtually any shape - based on its digital model. This type of printing is done through an additive process, where successive layers of material with different shape and size are piled on one after the other. Khoshsookhan

added: "This 3D printer has two motors mounted at the back, bringing the material to the front of nozzle. The dual-nozzle option allows the final design to be constructed without interrupting the stream of material." According to Khoshsookhan, his 3D dual-nozzle printer consists of seven motors and a metallic body which moves smoothly without shaking. This 3D printer is able to reconstruct a design in a scale of 22 x 15 x 15 centimeters. He added that 3D printing is useful for education in schools, universities; also in different branches of medicine, some industries like jewelry and those heavily dependent on modeling and producing prototypes. It is worth mentioning that Iranian researchers obtained the technology of 3D printers in 2013, making the Islamic Republic the first country of Middle East producing these printers domestically.



HIGH BISHOP OF TEHRAN'S CHRISTIANS MET WITH AYATOLLAH HAHSEMI-RAFSANJANI

A HIGH-RANKING GROUP OF IRAN'S CHRISTIANS ACCOMPANIED TEHRAN'S HIGH BISHOP IN MEETING WITH AYATOLLAH HAHSEMI-RAFSANJANI.

NEWS PHOTOS

ANA

IRAN UPDATES

"Let's not Repeat Past Mistakes"

In a short congratulation message on New Year occasion in his Twitter page, Iranian Foreign Minister Mohammad-Javad Zarif advised everyone to learn from history and abandon repeating past mistakes. Happy New Year to everyone! 'Let us learn from the history and repeat the experience of past successful deeds, not the past mistakes,' read the message.'

Traces of Iran's Stone Age Hunters Found in Iran's Kurdistan

Excavations in western Iran have uncovered Paleolithic stone tools, burned animal bones, and hearths. The campsites were found in caves and rock shelters along the Sirwan River. "The new finds provide researchers with valuable information about the way of life, game hunting, and tool making cultures of the primitive hunting societies and food collectors," project leader Feriudine Biglari told Tasnim News. The artifacts date from more than 40,000 years ago to the end of the last Ice Age, some 12,000 years ago, and provide the earliest known evidence of human activity in Iranian Kurdistan.

White House Delays New Sanctions on Iran with No Explanation

The White House notified Congress on Wednesday the day after ratification of new Iran sanctions that Treasury Department would implement them on Iran for its recent missile tests. However, when it came time, the Obama Administration reportedly delayed implementing the sanctions without offering the reason why it had done so, the Russian TV (RT) reported on Friday. The heads-up to Congress specified Thursday at 10:30 am as the time the new sanctions were to come into effect. The new penalties were to be imposed on just under a dozen companies and individuals from Iran, Hong Kong, and the United Arab Emirates that the US believes have been involved in Iran's ballistic missile tests, which took place earlier this month.

SPECIAL REPORTS

Inside IAU

Hashtgerd Branch: New and Ambitious



In 2006, through positive mediations between IAU's term management and local authorities, a new associate branch of the Islamic Azad University was opened in Hshtgerd, Alborz province, with the purpose of training skilled and highly efficient human resources. This new branch was an answer to growing demands for a center of higher education in the region and since Alborz province is adjacent to Tehran with a prospect of growing population, it seemed proper to provide its residents with an independent university.

Three years later, in 2009, this center gained its independence from Karaj branch and was resettled in a new campus of more than 6,000 sq/ms. Since then, Hashtgerd branch has been continuously going through expansion and development and today, with a student population of 6,500, 40 faculty members and the second educational complex under construction, it offers 5 lower and 4 upper associative programs, alongside 5 undergraduate courses mostly in technical and engineering field.

This branch has announced its main objectives as: expansion of graduate studies, hosting knowledge companies, construction of further student facilities like parking, canteen, sports complex, on campus mosque, security mechanisms, staff cooperatives, expansion of educational capabilities, creating the chair of free-thinking, hosting national and international academic conferences and developing mutual relations with other academic centers. Hashtgerd branch is actively in pursuit of improving its status from small to intermediate which would create better opportunities of expanding the abilities of this center and its students.