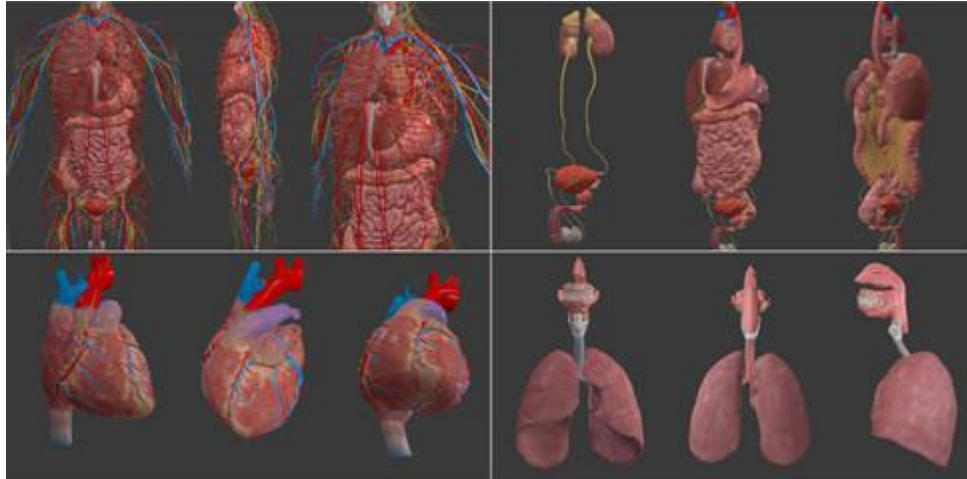


DTU Wins the “Tri Thuc Tre Vi Giao Duc” Award with a Virtual 3D Application

On November 14th, using Virtual 3D human anatomy software, a group of lecturers from Duy Tan University won 100 million VND in the national “Tri Thuc Tre Vi Giao Duc” contest held in Hanoi.

The contest, held by MOET, the HCMC Communist Youth Union, the Tuoi Tre Newspaper and the Thien Long Group, encourages innovative young people to contribute proposals to improve education. Launched in April 2016, the contest attracted 267 suggestions.

With their practical proposal, “Introducing 3D Reality Modeling in Education and Research in Health Sciences”, DTU lecturers Le Van Chung, Trinh Hiep Hoa, Le Khac Trieu Hung, Nguyen Minh Duc and Nguyen Luong Tho were awarded a prize of 100 million vnd for the most outstanding project.



The Virtual 3D human anatomy software proposed by DTU lecturers

DTU successfully developed their project to improve medical education by integrating: (1) A skeletal system application, with 254 bone models divided into different anatomical groups and the function of each bone described in detail; (2) A muscular system simulation of 519 muscle models, divided into anatomical groups, with muscular origins and insertions clearly shown, fully labeled with names and

descriptions; (3) A nervous system simulation, with 200 models divided into two main groups, showing brain nerves and others, with details about their exact interfaces and insertions as they pass through the cranial foramina and anatomical landmarks of the brain and spinal cord, shown in the 3D models; (4) The digestive system; (5) The circulatory system and others.

These applications can run on both desktop computers and mobile phones. The Virtual 3D Application allows students to easily understand and visualise parts of the human body in detail. Students can also search for data in English, Vietnamese and Latin, using the samples.

The main advantage of the project is that it provides students with direct experience by simulating and studying diseases, such as myocardial infarctions and strokes. Graduate medical students will be better qualified and confident enough to provide expert health care to their patients.



Mr. Le Van Chung, representative of DTU team, receives the award

Mr Le Van Chung, a representative of the DTU group, said: *“We spent three years studying medical books, especially on anatomy, and learnt from the experiences of leading professors to perfect our project, with the strong support the Board of Provosts, particularly from Dr. Le Nguyen Bao, DTU Vice-Provost, and our colleagues. We will use Virtual 3D human anatomy software to teach Health Sciences, for the benefit of our graduates and the entire community.”*

The team will develop models to simulate common diseases and conduct virtual endoscopy and surgery on a virtual body. Students will experiment interactively before interning at hospitals. DTU will also supply the system to high schools to teach Biology, to universities and medical training centers to teach Anatomy and to hospitals for further training of their health staff.

(Media Center)