Co-funded by the
Erasmus+ Programme
of the European Union

Training for Medical education via innovative eTechnology

MediTec

An ERASMUS+ Program

(Grant Number: 585980-EPP-1-2017-1-DE-EPPKA2-CBHE-JP)
Capacity-Building projects in the field of Higher Education (CBHE)

Prof. Darwish Badran, Prof. Ahmad Khasawneh &
Dr. Aiman Al Sharei

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Co-funded by the
Erasmus+ Programme
of the European Union

The Faculty of Medicine (FoM)

- The Faculty of Medicine at the Hashemite University was established in 2006.
- The Faculty admitted the first intake of 135 students in the academic year 2006/2007. The first group of 124 students graduated at the end of the academic year 2011/2012.
- It includes 5 departments in clinical and basic sciences
- It employs over 60 full time staff members, in addition to 105 part time lecturers and clinical tutors
- The number of students for the academic year 2016/2017 is 1,718.

Co-funded by the
Erasmus+ Programme
of the European Union

Accreditation

- As of November 2011, FoM has its name listed in International Medical Education Directory (IMED) which is accountable for enlisting the recognized medical faculties by their appropriate government agencies in in their home location.

- In January 2012, the faculty carried on with its mission to be enrolled in the Avicenna Directory which was maintained by the World Federation for Medical Education (WFME).

Co-funded by the
Erasmus+ Programme
of the European Union

- Starting from June 2016 FoM students can sit for the Professional and Linguistic Assessments Board test (PLAB) test which is for doctors who have qualified overseas and wish to practice medicine in the UK under limited registration.

- In August 2015, the Medical Board of California granted the faculty its recognition allowing the students to be eligible to apply for California Postgraduate Training Authorized Letter (PTAL) or a physician's and Surgeon's' Certificate, and the Hashemite University Faculty of Medicine has been added by the Medical Board of California.

- In September 2016, the faculty has fulfilled the conditions of eligibility by American Medical Residency Certification Board (AMRCB) for a duration of 5 years which is the highest accreditation title that can be given to a medical school.

Co-funded by the
Erasmus+ Programme
of the European Union

Curriculum

- The teaching plan is clearly based on achieving a crosslink between both the theoretical and practical aspects of basic years teaching.

- In the early stage, the link is achieved by endorsing a teaching system based on modular studies of the human system; which are nine in number, built on a hybrid between theoretical lectures and practical training at Clinical Skills labs equipped with state of the art tools.

- Unique courses like Medical Economics, Health Policies and Decision Making. To add, training at Clinical Skills labs is an integral part of its first three years of curriculum.

Co-funded by the
Erasmus+ Programme
of the European Union

The second link is achieved via adding five clinical skills lab-based courses; each of which allows the student to practice special bedside skills related to the corresponding module, including history taking physical examination, clinical procedures, and data interpretation on the mannequins available at Clinical Skills labs.

Clinical Skills Education and Testing Center (CSETC)

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Clinical Skills Education and Testing Center (CSETC)

Co-funded by the Erasmus+ Programme of the European Union

- The CSETC is the most modern and comprehensive in the country . It delivers a first-class service to trainees and increases patient safety by using high fidelity simulation and manikins which accurately mimic human physiology, and state of the art medical technologies, to support the training, development and evaluation of health-care professionals.

Clinical Skills Education and Testing Center (CSETC)

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Clinical Skills Education and Testing Center (CSETC)

Co-funded by the Erasmus+ Programme of the European Union

Lab 1 (Emergency Room):

It includes a full body high fidelity manikin that mimics all sorts of physiological and pathological body changes. The manikin reacts to medications and breathes in and out natural gases, like in real humans. The manikin also can be given DC shocks and is connected to a sophisticated simulation software that has built-in over than 90 medical and emergency scenarios, more custom tailored scenarios can be added to simulate desired scenarios.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Clinical Skills Education and Testing Center (CSETC)

Co-funded by the Erasmus+ Programme of the European Union

The room is fitted with audio/video instruments and cameras to record the desired educational case or to assess trainees/students during an emergency or any other medical practice, which can be helpful while played back for re-assessment and quality assurance purposes. Trainers can observe and monitor the session behind one-side mirrored glass allowing more realistic and almost bias free level of education. A special room fitted with a TV is dedicated for the recorded session to be revised, and another room with a number of 14 chairs is located allowing students watch through a wide glass window how their colleagues interact in serious situations, which is important to encourage self critique and to provide feedback to others.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Clinical Skills Education and Testing Center (CSETC)

Co-funded by the Erasmus+ Programme of the European Union

Lab 2 (virtual hospital):

A number of 25 clinics are distributed in 4 sections in this lab. All the clinics are like those in real life; they are equipped with chairs, couches, beds, curtains, desks and computers. The computers are linked to the internet with access to patients digital recording program, allowing trainees/students to accommodate with the digital era of health information systems. Additionally, each clinic is fitted with a camera and a two way audio system to communicate with the control room and to record each clinic individually on the servers..

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Clinical Skills Education and Testing Center (CSETC)

Co-funded by the Erasmus+ Programme of the European Union

here are 2 clinics dedicated for communication skills training, with one-side mirrored glass, allowing the trainer to give instructions and watch how the trainee interact with patients while breaking bad news and deal with angry or crying patients.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Clinical Skills Education and Testing Center (CSETC)

Co-funded by the Erasmus+ Programme of the European Union

Each specialized clinic has its own storage place where the appropriate manikins are found, and are presented according to the case needed, including clinical procedures, surgical skills, baby delivery, ENT conditions, ophthalmology, skin conditions, and many more.

The lab is also equipped with smart boards for easy and quick interactions.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Clinical Skills Education and Testing Center (CSETC)

Co-funded by the Erasmus+ Programme of the European Union

On April 13th 2015, the Higher Council for Science and Technology overseeing the "Hassan Bin Talal Award for Scientific Excellence" presented the first prize to the Hashemite University for its leadership in medical education through the CSETC.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Digital Anatomy Lab (DAL)

Co-funded by the Erasmus+ Programme of the European Union

- Due to the difficulties in finding cadavers for many ethical and cultural reasons. The faculty decided to acquire a digital anatomy table as a complementary educational material to the classic anatomy class.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Digital Anatomy Lab (DAL)

Co-funded by the Erasmus+ Programme of the European Union

- Since students need to mentally visualize 3D complex anatomy structures in space, which is usually hard to recall, the anatomy course at the Hashemite University has been carefully designed to be taught using a combination of: embalmed cadavers, plastinated models, medical imaging, plastic and computer-animated models to ensure students have a thorough understanding of the sophisticated 3D nature of human body.

Digital Anatomy Lab (DAL)

Co-funded by the Erasmus+ Programme of the European Union

- In addition to its touch-interactive display system, the table comes pre-installed with 3D gross body male and female contents, 3D high res regional anatomy and 3D imaging software with anatomy viewing and modelling tools. The data comes from real patient scans and cadavers, making them accurate. This will ensure that medical students can align with day to day medical practices, where doctors interact with patients via medical imaging or surface anatomy.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Digital Anatomy Lab (DAL)

Co-funded by the Erasmus+ Programme of the European Union

- The anatomy table is fitted inside a facility, which is customized with sound and visual systems, and equipped with 80 computers. Where students can learn through a digital 3D anatomy software (e.g. Visible Body, 3D4Medical) individually installed/accessed on their computers, and/or through the content delivered to big (9) TV screens by the instructor from a variety of learning tools:

The anatomy table
Digital microscope with digital high definition camera
Instructor(s) computer
Chromecast device and Apple TV that delivers to the big 9 TV screens all sorts of educational material from any computer, tablets or smart phone.
Main server, it allows for examinations to be run smoothly across all computers or even through the anatomy table using its quiz functionality.

About MEDITEC

Co-funded by the Erasmus+ Programme of the European Union

- The MediTec project will support and modernize the medical education in Jordan, Iraq, and Iran by establishing innovative training centers with immersive medical learning platform and realistic simulation models in order to improve the practical and soft skills for students in medical education in Jordan, Iraq, and Iran.

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Co-funded by the
Erasmus+ Programme
of the European Union

Objectives

- Establishing an innovative medical training center with Immersive Medical Learning Platform to train teachers and students on innovative medical technology
- • Training of trainers, staff and students on innovative technologies in EU universities
- • Adapting the training on innovative technology in teaching process
- • Enhancement of training-methodical complexes on bases of modernized training courses
- • Development and providing, training program, multimedia and materials for training on innovative technologies
- • Training of students in EU and in the center
- • Development of practical courses especially for this new learning environment.
- •Strengthening quality of the graduate students through visits and cooperation with the EU

Co-funded by the
Erasmus+ Programme
of the European Union

Activities and tasks

- Studies for the needs of students, doctors and teachers
- Prepare operation plans for the training on innovative medical technology
- Purchase of training equipment and training materials
- Delivery of technical and didactic equipment
- Hardware installation and adjustment of software
- Training and integration the training program in teaching system
- Studying of EU experience by mobility of staff and students
- Develop training programs for the training on innovative medical technology
- Improvement of training methodical complexes on base of modernized training and Training of instructors

Activities and tasks

Co-funded by the Erasmus+ Programme of the European Union

- Integration the medical training program in study programs at the universities
- Development of multimedia approach and manuals for modernized training
- Quality control and monitoring
- Quality control, monitoring and budgetary control
- Monitoring of the development process
- Expertise and quality control of developed methodical training and manuals
- Project task supervision, result evaluation and reports.
- Project Dissemination, Exploitation and Sustainability
- Publication of information on project activities via Internet

Activities and tasks

Co-funded by the Erasmus+ Programme of the European Union

- Carrying out workshops, conferences and seminars, internal and external disseminations
- Meetings
- Distribution of project documentation material
- Training sustainability in long-term perspective, update
- Cooperation networks and funding
- Management of the Project
- Coordination meetings
- Controlling of the project activity, Monitoring and evaluation of results
- Reporting and control of the budget

Co-funded by the
Erasmus+ Programme
of the European Union

Networking

- The ***MediTec*** Network aims to open a wide range of opportunities:
- To facilitate exchange of good practices between the members through the ***MediTec*** portal and twinning procedures in order to promote transfer of knowledge between its members;
- To encourage the submission of common proposals and development of projects between the members of the network;
- To assist in the establishment of ***MediTec*** best practices;

Networking

Co-funded by the Erasmus+ Programme of the European Union

- ***The MediTec benefits for its Network members***
- The ***MediTec*** Network members obtain numerous benefits to grow, share, learn, and modernize:
- To motivate and exchange good practices between the members through the ***MediTec*** portal and twinning procedures and to promote transfer of knowledge among its members;
- To access a transnational forum of discussion in Higher Education;
- To participate in common actions between the members of the ***MediTec*** Network, such as: seminars, submission of proposals and development of projects, submission of publications in scientific journals and scientific conferences;
- To participate in training workshops to be held under the theme of using advanced technology in Higher Education;

Stakeholders

Co-funded by the Erasmus+ Programme of the European Union

- Stakeholders in this project may contribute to improving awareness, visibility, relevance, effectiveness and impact of the international dimension of **Erasmus+**. Therefore, an Erasmus+ approved from was delivered to stakeholders to signed by each party.

Stakeholders

Co-funded by the Erasmus+ Programme of the European Union

- A number of stakeholders benefit from this project:
- Jordan Medical Council
- Royal Medical Services
- Electronics Health Solutions (EHS)
- Al-Hadi Medical and Information Technology Co.
- Faculty of Medicine at Jordan University of Science and Technology
- King Abdullah University Hospital
- Faculty of Medicine at Yarmouk University

Co-funded by the
Erasmus+ Programme
of the European Union

Jordan Medical Council

- This institution is dedicated to the training of doctors and rehabilitation specialists and general practitioners through the planning, implementation and supervision of the scientific programs, plans and academic curriculum for various medical specialties accredited by the Medical Council and lead to obtain a certificate of competence Supreme (Jordanian Board) in various medical and dental disciplines.
- Certificate of Specialization (Board) is issued by the Jordanian Medical Council is the highest vocational certificate in the Kingdom.
- This institution will benefit from this project through collaboration with aims to strengthen training and medical education for all medical staff.

Royal Medical Services

Co-funded by the Erasmus+ Programme of the European Union

- Was established in 1941, it is considered the first Arab medical city, belonging to military services, located west of Amman, the Jordanian capital. Its staff includes about 1,000 specialists, nurses and administrators, and grants medical degrees to most majors, and is provided with medical contracts with international medical institutions. The first transplants were carried out in the Middle East, where the heart transplant was recorded in the early 1980s, when it was limited to medically developed countries. The city consists of a large building in the form of a walled village and extended on the longest straight street that cuts West Amman.
- The project will be useful in providing awareness and training through workshops, conferences and advanced educational material.

Co-funded by the
Erasmus+ Programme
of the European Union

Jordan University of Science and Technology (JUST) – Faculty of Medicine

- Was established in 1983, the faculty offers Master studies in various medical sciences and higher specialty programs in the majority of clinical disciplines.
- This project will help in improving the educational materials and resources to address various issues related to medical education, especially in human anatomy due to the difficulties of assuring cadavers for medical raining and education.
- The project will also help better equip staff and students through training which will eventually facilitate education.

Co-funded by the
Erasmus+ Programme
of the European Union

King Abdullah University Hospital

- The hospital is located at the northern part of Jordan, it is considered one of the largest in the country with a capacity of up to 819 beds. It was crowned by His Majesty King Abdullah II and received the first patient for treatment at the outpatient clinics in 2002.
- The hospital hosts a great educational environment for medical training offered to medical, nursing and pharmaceutical sciences students. In addition, it is a professional healthcare arena which provides a large variety of medical residency programs in collaboration with the faculty of medicine at JUST.
- The hospital will benefit from this project through training workshops or simulation facilities that may enhance medical education and boost professional skills.

Co-funded by the
Erasmus+ Programme
of the European Union

Yarmouk University – Faculty of Medicine

- The faculty of medicine at Yarmouk University is one of the youngest faculties in Jordan, established in the academic year 2013/2014, located in the north at the heart of Irbid city, and surrounded by good number of hospitals, where students get their training at.
- This project will help to improve medical education through technology and simulation.

Co-funded by the
Erasmus+ Programme
of the European Union

Al-Hadi Medical Technology & Information

- The company is well known in providing medical professional and educational solutions to healthcare providers and health institutes across the country. The company is the main leader and supplier of medical simulation in Jordan Middle East & Gulf, since 2006.
- The project will pave the ground for mutual benefits through sharing knowledge and expertise working towards the advancement of adopting new technologies in medical education through workshops and conferences.

Electronics Health Solutions (EHS)

Co-funded by the Erasmus+ Programme of the European Union

- EHS is an innovative technology-driven, private, non-profit company that effectively provides automated solutions to enhance the quality and efficiency of Jordanian public healthcare services. It was founded in 2009, and is collaborating with strategic healthcare and technology partners, EHS is driving the future of electronic health in Jordan. These key stakeholders (owners) include the Ministry of Health (MoH), Ministry of Information and Communication Technology (MoICT), Royal Medical Services (RMS), King Hussein Cancer Foundation (KHCF), Royal Health Awareness Society, Private Hospitals Association and King Abdulla II Fund for Development. ---- Cont.

Co-funded by the
Erasmus+ Programme
of the European Union

Electronics Health Solutions (EHS)

- EHS through its programs Electronic Library of Medicine "ELM" and Hakeem Academy directly collaborate with Jordanian universities to bridge the gap between academia and the local market through building students capacity in health information and clinical/medical content. The EHS company is actively engaging with the faculty of medicine to integrate the complete Human Anatomy Package from Primal Pictures (offered for free for one year) into the medical curriculum. The idea is to familiarize students and staff with the digital medical content and prepare them for the next era of digital educational environment.

Outputs

Co-funded by the Erasmus+ Programme of the European Union

- Equipment bought and installed, software installed, center worked
- The number of courses in the centers on innovative medical technology is growing
- Materials publication about medical training on innovative technology
- Informative project website
- Leaflets and promotional materials disseminated Participation in fairs, exhibitions, seminars, training methodical conferences
- Management, results of monitoring and quality control
- Management strategy adopted by partner

Training

Co-funded by the Erasmus+ Programme of the European Union

- As a part of the project there were several training courses organized by the EU-partner institutions:
- Univerzita Pavla Jozefa Safarika v Kosiciach [UPJS], Slovakia;
- Masarykova Univerzita [MU], Czech Republic; and
- University of Malta [UM], Malta.
- The audience of these training courses from the non-EU partner institutions:
- Jordan University of Science and Technology [JUST], Jordan
- The University of Jordan [UJ], Jordan
- Hashemite University [HU], Jordan
- Princess Sumaya University for Technology [PSUT], Jordan
- University of Duhok [UoD], Iraq
- University of Baghdad [UoB], Iraq
- University of Basra [UOB], Iraq
- Tehran University of Medical Sciences [TUMS], Iran
- Iran University of Medical Sciences [IUMS], Iran
- Yarmouk University [YU], Jordan

Dissemination at HU

Co-funded by the Erasmus+ Programme of the European Union

- The Hashemite university (www.hu.edu.jo) has a link with the project logo implemented in the main university website (please see enclosed). Our local website: http://meditec.just.edu.jo for workshops, info days, internal presentations, etc. to be added.

Dissemination at HU

Co-funded by the Erasmus+ Programme of the European Union

Student Announcements

القبول والتسجيل | الشؤون المالية | عمادة شؤون الطلبة | كلية الدراسات العليا | بنك القاهرة عمان

- إعلان بدء تقديم طلبات الالتحاق في البرنامج الموازي لدرجة البكالوريوس للفصل الدراسي الاول 2019/2020
- إعلان بدء تقديم طلبات الالتحاق في البرنامج الدولي لدرجة البكالوريوس للفصل الدراسي الاول 2019/2020(
- اعلان الانتقال من تخصص لاخر و من جامعة اخرى للجامعة الهاشمية
- اعلان هام بخصوص امتحانات المستوى للطلبة الخريجين و الطلبة القدامى في الفصل الصيفي 2019/2018
- اعلان هام بخصوص عقد امتحانات المستوى للطلبة القدامى و الخريجين في الفصل الصيفي 2019/2018
- تمديد فترة السحب و الاضافة للفصل الصيفي 2018

HU's Portals

The University offers a wide range of electronic services to all segments of the university, which in turn facilitates communication with all departments of the university in an easy way that saves time and effort.

- Students Portal
- Employee Portal
- Hospitals Portal
- Parents Portal
- Scholars Portal
- Alumni Portal

Useful Links

مؤتمر المحتوى المعرفي لذوي الإعاقة: سهولة الوصول

بخدمتكم لأنه واجبنا

editec

نموذج طلب الحصول على المعلومة

المؤتمر الدولي الثاني لقسم اللغة العربية في كلية الآداب

editec

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Project timeline

Co-funded by the Erasmus+ Programme of the European Union

- **Date: October 2017**
- **Activity:** Info day to staff and students about the project
- **Performers:** Professor Darwish Badran, Dr. Aiman Al Sharei
- **Objectives:** During this day, the project main ideas, objectives and anticipated activities were presented to staff and to the newly admitted medical students at Hashemite University during the annual meeting.

Co-funded by the
Erasmus+ Programme
of the European Union

Date: October 2017

Activity: Info day to staff and students about the project

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

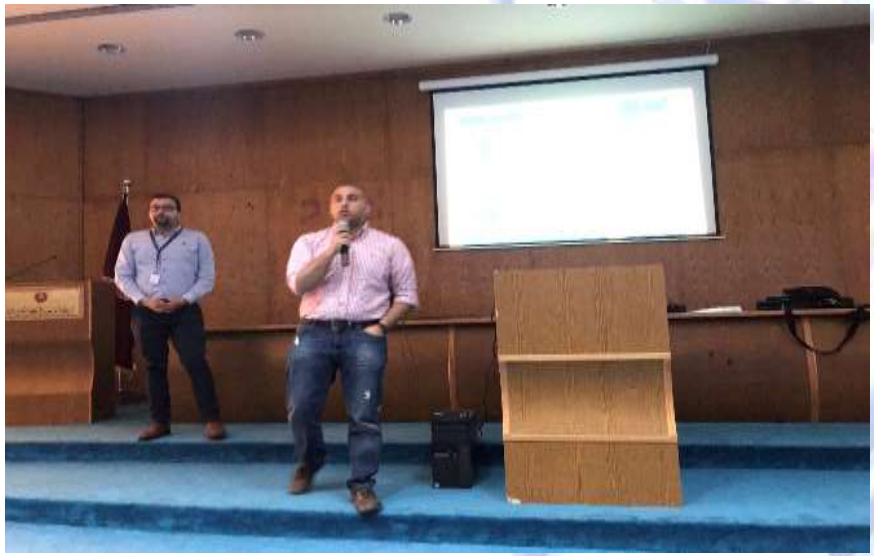
Date: November 2017

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Internal presentation for students about the project at Hashemite University, brainstorming medical educational tools
- **Performers:** Professor Darwish Badran, Dr. Aiman Al Sharei
- A meeting with medical staff and students to identify the technology and tools required to develop medical education at Hashemite University.

Date: November 2017

Co-funded by the Erasmus+ Programme of the European Union



MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: February 2018

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Presenting the milestones achieved by Hashemite University at the kickoff meeting at the dead sea, Jordan.
- **Performers:** Dr. Aiman Al Sharei, Dr. Bashar Hammad
- **Objectives:** Power point slides were presented through the kickoff meeting with all MediTec members in the Dead Sea, Jordan, showing the milestones and achievements made in the adoption of technology in medical education at Hashemite University.

Date: February 2018

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: February 2018

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Introducing the project and the experiences of Hashemite University in its adoption of technology in medical education
- **Performers:** Professor Darwish Badran, Dr. Aiman Al Sharei
- **Objectives:** PowerPoint slides were presented to students and staff reflecting the project goals and objectives to transfer the knowledge and the experiences of Hashemite University in medical education, and revealing new means of medical education disseminated at the dead sea kickoff meeting through project partners.

Date: February 2018

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: May 2018

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Brainstorming of the Anatomy course curriculum
- **Performers:** Prof. Darwish Badran, Dr. Aiman Al Sharei, Prof. Ashraf Ramzi, Dr. Mustafa Saad.
- **Objectives:** A meeting with the anatomists and students from the medical faculty at Hashemite University to decide what is needed to be incorporated in the projected 3D anatomy course to fit in the context of the project.

Co-funded by the
Erasmus+ Programme
of the European Union

Date: July 2018

- **Activity:** Follow up meeting to discuss the main frame of the suggested plan to create incorporate technology in the Anatomy course curriculum
- **Performers:** Prof. Darwish Badran, Dr. Aiman Al Sharei, Prof. Ashraf Ramzi, Dr. Mustafa Saad
- **Objectives:** Two meetings with medical staff and students were held to discuss the main frame of the newly designed template in scope to create a 3D-Anatomy course.

Date: November 2018

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Staff training in Slovakia
- **Performers:** Prof. Darwish Badran, Dr. Aiman Al Sharei, Prof. Ahmad Khasawneh
- A training program was attended provided by Pavol Jozef Šafárik University in Košice, Slovakia.
- **Objectives:** The training was realized in the form of conferences with trainings to share theoretical and methodological experiences in modernization of medical education, multiple visits and workshops were held at Pavol Jozef Šafárik University campus, venues and hospitals.

Co-funded by the
Erasmus+ Programme
of the European Union

Training in Slovakia

- Highlighted activities:
- 1. Identifying the Strengths, Weaknesses, Opportunities & Threats of the existing training programs, including academic and non-academic staff skills.
- 2. Introducing and modernization of the training curriculum, teaching material and exam methods as base to improve training program in Health Sciences.
- 3. Discussing with the partners, Cardiovascular Prevention, Anatomy, Nursing Care, Public Health and Hygiene, Medical Physiology, Biophysics in Medicine, Experimental Medicine, Resistance to antibiotics, Biomedical engineering, Radiology and Nuclear Medicine, and Medical Informatics at UPJS. As well as discussion on First Aid in Health Care Disciplines, Neonatology, Simulations in Gynecology and Obstetrics and Simulations in Surgery

Training in Slovakia

Co-funded by the Erasmus+ Programme of the European Union

- Visits were to following places:
- - Department of Medical and Clinical Biophysics
- - Department of Experimental Medicine
- - Department of Medical Physiology
- - Department of Nursing Care
- - Department of Anatomy
- - Department of Biomedical Engineering and Measurement
- - Department of Anesthesiology and Intensive Medicine
- - 1st Department of Surgery
- - Department of Gynecology and Obstetrics
- - Department of Neonatology
- - East Slovak Institute of Cardiovascular Diseases-
- - Department of Stomatology and Maxillofacial Surgery at Akadémia Košice,
- - Forensic Medicine and Health Care Supervision at UPJS.

Training in Slovakia

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: January 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Transferring knowledge and skills from the training in Slovakia
- **Performers:** Prof. Darwish Badran, Dr. Aiman Al Sharei
- Faculty meetings took place to discuss the deliverables received through the training in Slovakia. Students' feedback about the learning outcome was in consideration.
- **Objectives:** To share theoretical and methodological experiences in modernization of medical education through the multiple visits and workshops attended at Pavol Jozef Šafárik University campus, venues and hospitals.

January 2019

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: January 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Staff training in Czech Republic
- **Performers:** Dr Muhannad Odeh
- A training program was attended provided by Masaryk University, Brno, Czech Republic.
- **Objectives:** The training was realized in the form of conferences with trainings to share theoretical and methodological experiences in modernization of medical education, multiple visits and workshops were held at Masaryk University campus, venues and St. Anne's hospital.
- Highlighted activities:
- 1. Identifying the Strengths, Weaknesses, Opportunities & Threats of the existing training programs, including academic and non-academic staff skills
- 2. Introducing and modernization of the training curriculum, teaching material and exam methods as base to improve training program in Health Sciences

Date: January 2019

Co-funded by the Erasmus+ Programme of the European Union

- Lectures and workshops discussed the following:
- A) Current healthcare issues in Europe and approach to their management
- B) Quality management in health care institutions
- C) Health / Healthcare education and promotion
-
- Visits were to the following centers:
- A) Department of Biophysics
- B) Center for HC quality #
- C) Department of Anatomy
- D) Department of Radiology and Nuclear Medicine
- E) St. Anne´s University Hospital

Date: January 2019

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: May 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Installation of equipment and engaging students
- **Performers:** Dr Aiman Al Sharei
- The installation of Zspace and human anatomy models and other equipment took place at the faculty of medicine at Hashemite University. A dedicated laboratory was assigned for this purpose.

Date: May 2019

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: June 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Staff training in Malta University
- **Performers:** Professor Darwish Badran, Dr Haytham Hayajenh
- A training program was attended provided by Malta University, Msida, Malta.
- **Objectives:** Sharing theoretical and methodological experiences in modernization of medical education, multiple visits and workshops were held at Malta University campus, medical faculty and its departments and labs, in addition to the university hospital, faculty of IT and training in the simulation lab.

Date: June 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Highlighted activities:**
- 1. Identifying the Strengths, Weaknesses, Opportunities & Threats of the existing training programs, including academic and non-academic staff skills
- 2. Introducing and modernization of the training curriculum, teaching material and exam methods as base to improve training program in Health Sciences
- 3. Training in academic assessment including Multiple Choice Exams, OSCE, in addition to discussions and various seminars covering medical insurance and many more.

Date: June 2019

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: August 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Info day and internal presentation to medical students
- **Performers:** Dr Aiman Al Sharei
- The faculty of medicine presented what's new and innovative in medical education using 3D visualized anatomy application and devices. An info day and internal presentation to medical students was hosted in the Digital Anatomy Lab and in the newly established Center for Innovative Training in Medical Education, a project funded by Erasmus+.
- **Objectives:** To familiarize students with the current means of incorporating technology with medical education, students were introduced to the project and its goals. To make students experience by themselves the newly installed 3D Anatomy software and hardware and to be encouraged to utilize it at larger scale, in addition to incorporating them in the process of reshaping the pedagogical methods in delivering anatomy knowledge.

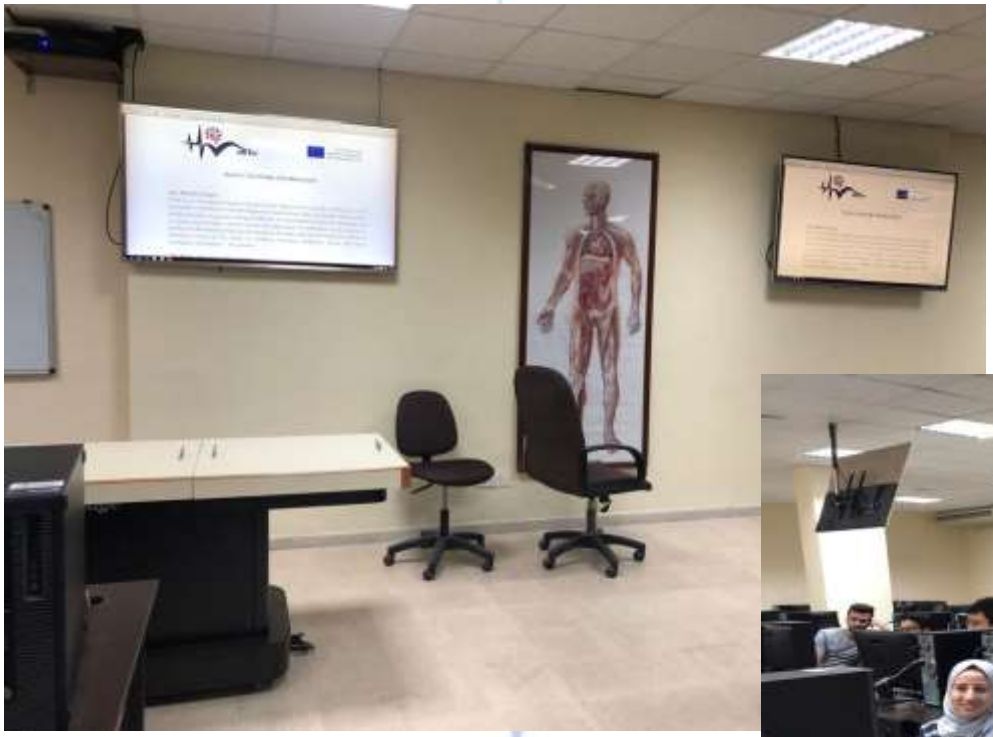
Date: August 2019

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: August 2019

Co-funded by the Erasmus+ Programme of the European Union



MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: August 2019

Co-funded by the Erasmus+ Programme of the European Union

Date: August 2019

Co-funded by the
Erasmus+ Programme
of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 17th September 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Staff meeting with Dr Oleg Krikotov
- **Performers:** Professor Darwish Badran, Professor Ashraf Ramzi, Dr Reeth Al Saffar, Dr Aiman Al Sharei, Dr Mustafa Saad.
- **Objectives: Dr. Oleg visit to Hashemite University was part of an evaluation visit to all local project partners, in order to achieve better implementation of the centers.** During the meeting, many different ideas were suggested by HU staff and feedback was also provided to better educate medical students in topic of human anatomy, which will eventually may help modernizing medical education within our circumstances.

Date: 17th September 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Highlighted activities:**
- A tour was made to facilities at the faculty of medicine at HU including CSETC.
- Identifying the challenges faced during the pedagogic cycle of anatomy courses and the integration of different types of educational technologies in the anatomy curriculum.
- Recommendations were suggested to Erasmus+, such as securing more equipment
- Recommendations were also suggested by Dr. Krikotov, such as training more academic staff on how to utilize the Zspace device (3D anatomy tool).

Date: 17th September 2019

Co-funded by the Erasmus+ Programme of the European Union

Date: 17th September 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 25th September 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Staff training on how to utilize Zspace (3D anatomy tool)
- **Performers:** Professor Darwish Badran, Professor Ashraf Ramzi, Dr Reeth Al Saffar, Dr Aiman Al Sharei, Dr Mustafa Saad.
- **Objectives: To train more academic staff from the faculty of medicine at Hashemite University as suggested by Dr. Oleg Krikotov from Erasmus+.** The training was performed by Al Mottahida group and certificates were delivered later to trainees.

Date: 25th September 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 25th September 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 25th September 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 14th October 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Staff meeting to discuss the integration of Zspace and other provided equipment/simulation mannequins in the pedagogic cycle of anatomy courses
- **Performers:** Professor Darwish Badran, Professor Ashraf Ramzi, Dr Reeth Al Saffar, Dr Aiman Al Sharei, Dr Mustafa Saad, Dr Mohammad Fathy.
- **Objectives:** To engage students in the new facility (Center for Innovation) provided by Erasmus+ and discuss the practical means of delivering anatomical sciences to students.

Date: 14th October 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Highlighted activities:**
- All anatomy staff met to discuss the practicality of implementing the Zspace device as an educational tool, and found out that there are some challenges concerning the incorporation of students' active engagement within this type of class considering that there is only one machine available to interact with one student at once! Besides their large number (reaching 1000 basic sciences students) and the limited time given in their daily timetable. It was recommended to acquire more machines of this type or similar in function to cope with the large number and to fulfill the requirements.
- Students can still take advantage of the installed equipment by either rotating in small numbers during their practical sessions OR through making it open all day long through booking.

Date: 14th October 2019

Co-funded by the Erasmus+ Programme of the European Union

Date: 15th October 2019

Co-funded by the Erasmus+ Programme of the European Union

- **Activity:** Hosting a workshop involving all local project stakeholders
- **Performers:** Representatives from: Royal Medical Services (RMS), Jordanian Medical Council (JMC), Electronic Health Solutions Company (EHS) and Al-Hadi Medical and Information Technology Company.
- **Objectives:** The Hashemite University with management of the faculty of medicine hosted an info day to all project local stakeholders to familiarize them with the MediTec project goals and objectives. Additionally, to actively engage them in what's new and innovative in medical education, allowing room for participants to have hands on experience with the newly installed Zspace 3D anatomy tool provided by Erasmus+, in order to foster the importance of merging technology in medical education and open their horizon for new innovative tools to come down the way.

Date: 15th October 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 15th October 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 15th October 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Date: 15th October 2019

Co-funded by the Erasmus+ Programme of the European Union

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP

Co-funded by the
Erasmus+ Programme
of the European Union

Thanks

MediTec Project Number:585980-EPP- 1-2017- 1-DE- CBHE-JP