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MediTec - Training for Medical Education via Innovative e-Technology

Project number: 585980-EPP-1-2017-1-DE-CBHE-JP

Innovation center at University of Jordan

October 15 , 2017 to August 14 2021

The University of Jordan



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Overview

The objective of the present document is to overview the established innovation centre at the university of Jordan; its history, objectives, resources, activities, achievements, sustainability strategies, and communication tools.

Introduction

The center was established by decree from the Board of Trustees at the university by 2017 under the name of “University of Jordan Innovation Center”. Regulations were developed in 2018 and defined the objectives and role of the center.

The name was later changed to become a “The University of Jordan Innovation and Entrepreneurship Center “by an amendment to the decree from the Board of Trustees to link Innovation to Entrepreneurship and economic development in mid-2016.

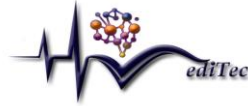
Vision: To support innovation and entrepreneurship in the University and community in cooperation and integration with the public and private sector in an effort to foster innovation and entrepreneurship and create a generation capable making a real contribution to the sustainable economic development in Jordan.

The Center operates from has a temporary location with 6 administrative staff.

Center Services

UJIEC is a newly established center that services 19 schools at University of Jordan, UJIEC offers entrepreneurs and innovators from the University and across the kingdom. UJIEC offer the following services:

- Pre-incubation services
- Startup funding
- Mentorship services
- Entrepreneurship Training and education
- Patent registration support services
- Networking



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Center Strategic plan

The center strategy is to create a network with other innovation medical centers and the innovative community which will have to keep working on the transfer of knowledge, research and technology results achieved in the academic system, creating systematic medical training and education program, Strengthen Collaboration with stakeholders (national & international & business), Creating a venture capital fund, and Developing the Center Infrastructure (space and equipment).

The center resources are as follow:

Financial resources

- Small budget allocated from UJ budget yearly – basically to handle
- Administrative operation costs
- Very small Startup seed funding
- Private sector sponsorship and funding for activities and projects **Human**
- UJIEC community
- Volunteers
- UJ community: Faculty members, researchers, graduate students and Students

Infrastructure

- 100+ Research labs not including computer labs (Medicine, Pharmacy, Bio, Chemical, etc.) at UJ •

Innovation and Entrepreneurship support process

Basic Approaches:

- Demand driven
- General Market and Industry Challenges
- Sector specific filed challenges
- Fixed calls for proposals

Supply driven

- Research Supply from Research deanships
- Random I&E proposals
- Competitions based



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Student Innovation Promotion

The center is promoting the innovation in students, through developing the following aspects:

Resources

- New knowledge and technology delivery through continued curriculum improvement.
- Facility, instrument and supplies.
- Student centered activities
- Contemporary Issues
- Student competitions

Practice

- Self-initiated projects
- Senior design projects
- Course project and research projects
- Vertical integration program and interdisciplinary team



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Significance of MediTec Center

Although continuing education for health professionals is very important, it is not always widely studied and discussed in terms of improving the competence of medical laboratory. The main objective from establishing the MediTec Center is to provide a comprehensive studies of the various factors that affect the achievement motivation of students and technicians at medical laboratories. The desire to improve their professional competence is a motivating factor for many healthcare providers. They are also interested in developing new methods and devices that can facilitate the examination of their patients. Especially when z-Space workstation is installed.

The objective of the **MediTec Center** at Jordan University is to enhance the achievement of medical laboratory technicians and students. It also aims to influence the attitudes of the students toward continuous learning. This study is conducted through a combination of methods and materials. The Laboratory is allocated for are involved in the continuing professional education of medical laboratory. They are also students enrolled in Using MediTec Laboratory Equipment which are allocated in MediTec Center.

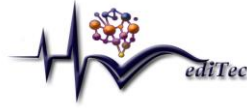
Since there is only **one device** that can teach our students, it was suggested that we use this technology in combination with other teaching methods to introduce our students to complex human structures. This method would allow them to learn about the human body in a more systematic manner.

In the cardiovascular system course, students will be able to identify the relationship between various abdominal organs and their surroundings. They will also be able to visualize the complex content of these structures while learning about the nervous system and the pelvic floor muscles.

Outcomes

The main outcomes of continuing education are updated in situations where the professional success of a medical laboratory assistant is considered very important. This is because there are clear criteria that can be used to evaluate a candidate's performance. The motivation for achievement can also vary depending on the individual's personality.

The higher achievement motivation drives individuals to improve their professional skills and interests. This is evidenced by their desire to pursue a graduate degree in their field. They also tend to prefer specializations as a means of continuing education.



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The effects of the **Z-Space workstation** on the study of achievement motivation are significant. They help improve the existing literature on the application of this theory to the study of life-long learning behavior. This could serve as a way to address the increasing complexity of technology and medicine.

In the **cardiovascular system**, students will be able to identify the relationship between various abdominal organs and their surroundings. They will also be able to visualize the complex content of these structures while learning about the nervous system and the pelvic floor muscles.

Through the use of the provided kits, students will be able to participate in various clinical scenarios. These will allow them to develop their communication and clinical skills. In addition, they will be able to handle emergency situations. Having an emergency kit is very helpful for students as it allows them to practice using virtual cases in a clinical setting. During the training sessions, the impact of such equipment on their academic goals is noticed.

Impact

The Impact of the using MediTec Equipment have been shown to be very useful in the formulation of new educational policies aimed at improving the professional performance of medical laboratory assistants. These policies would allow them to maintain their higher achievement motivation and improve their efficiency.

Innovation & Entrepreneurship Stakeholders at UJ

UJIEC is cooperating and coordinating the innovation work with the following units inside the university of Jordan

- 1. School of Medicine**
- 2. Health Centers**
- 3. Deanship of Student Affairs**
- 4. Deanship of Academic Research**



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UJIEC sustainability

Business sustainability represents resiliency over time (businesses that can survive shocks because they are intimately connected to healthy economic, social and environmental systems).

CTI sustainability is the ability to maintain and manage a long-term adequate financial and social resources that support our operations. The center financial sustainability will be achieved through:

- Strategic Planning
- Managing costs
- Fundraising plan
- Planning for profit
- Rental income
- Fee based training
- Event sales
- Investment
- Plan partnership with Investors
- Co-finance
- More projects

While the center financial sustainability will be achieved through:

- Stakeholder engagement (Students, faculty, and Administration)
- Community outreach and Community Leadership.
- Promoting inclusion for all, equality, rights, development and responsibility of all
- Building a Community of Volunteers