Seventh International Conference Granting GeVocational Training Systemvocational training system ending in employment Participation in the work of the Seventh International Conference (Granting German Accreditation in the Vocational Training System that Ends with Employment), dated 8/17/2023, Germany - Berlin.

- Scientific research paper entitled: ArtificiPractical-universityPracticaluniversity practical Application EffectivenessapplicationThe effectiveness of the artificial intelligence strategy in practical training in higher education institutions and its role in preparing and qualifying university graduates to enter the labor market.Keywords: Artificial intelligence strategy, university practical field training, higher education institutions, labor market.

Research paper topics:

- The effectiveness of vocational and practical training in higher education institutions to enter the labor market.Objectives of linkininstitutionrequirementsSheddinginstitutionrequirementsrequirementsShe and ,dding light on the experiences of successful Arab bodies, institutions companies in the field of providing and qualifying cadres to contribute to the labor market, the UAE universities as an example.Artificial intelligence strategy between theory and application

المحور الأول:

- Artificial intelligence strategy between theory and application:First, let us learn about artificial intelligence: it represents the most important output of the Fourth Industrial Revolution in the world, and artificial intelligence (AL) is a simulation of human mental capabilities and their modes of work, such as learniproblem-solvingproblem solving, planning, and discrimination, through digital machines and computers in a way similar to the work that Intelligent

- Artificial intelligence includes theory and practical applications: In theory: Researchers and scientists deal with studying and analyzing models and methods that have been developed to represent intelligence and simulate human mental processes. This includes a wide range of concepts and principles, such as artificial neural networks, machine learning, real-world intelligence, and others In the process: AI is being applied in a variety of fields and industries. This includes the development of smart robots, automatic control systems, and machine learning applications in various fields, such as: machine translation, image recognition, natural language processing, big data analysis, and others.

- Artificial intelligence has created a tremendous educational system for practical training to achieve sustainable development throug: Providing educational content: Artificial intelligence provides educational platforms that provide customized content to train students. Self-evaluation and student guidance: By analyzing students' performance and comparing it to specific standards, the smart system can also identify the strengths and weaknesses of each student and guide them individually to improve their performance. Develop practical skills: Artificial intelligence produces virtual environments that simulate real work scenarios, such as experimenting with crafts or teamwork in teams. Scientific research and development: Artificial intelligence can be used to develop research and improve teaching methods and vocational training for university students. By analyzing big data, intelligent systems generate recommendatianalysesanalyzesresearcherresearchers recommendations

The second axis: The effectiveness of vocational and practical training in higher education institutions to enter the labor market

- What is meant by university practical field training is the skills and experiences that the student must obtain through the programs and plans established within the educational programs of universities and institutes. The student acquires knowledge in a realistic, intentional way with the aim of moving from limited theoretical education to extended experimental education, and creating opportunities for students to discover their abilities and measure their potential under the supervision of trainers and specialists who possess the knowledge, knowledge, and competence to help students achieve their success and enable them to hone their skills and apply their knowledge on the ground.

The importance of field training for university students

- Training in general means a planned, organized and continuous effort that aims to bring about changes in the behavior of individuals and institutions by training them in skills and providing them with techniques. Its importance is:Field training gives students real experience by applying what they learned during their university studies.It gives students the opportunity to deal with various pressures that they may face in the labor market.It helps the student develop his understanding of the procedures of the educational process.Provides an opportunity to interact and collaborate with experienced trainers in the field of work.It gives students a high level of positive feeling and satisfaction towards the profession.It helps the student to understand the needs and characteristics of the environment in which he is supposed to work.Field training is an effective way to help the student acquire new abilities and skills that he did not possess, and these skills enable the student to expand his concepts.

The effectiveness of practical field training for university students. Opinions of some university presidents and directors

- Dr. Riyad Al Muhaidib, Director of Zayed University, explained: Practical training provides students with experience in the labor market, and it is not required that the field of work be identical to the subjects studied by the student, but rather the field of work must be in the profession for which the student is qualified. Universities provide, through laboratory hours, practical experience that is compatible with the theoretical subjects studied by the student.Al-Muhaidib also said: Through practical training, the student learns about important skills in the professional field and the future responsibilities that he is expected to undertake.He pointed out that when institutions ask students to implement a specific project within their objectives, they train through it how they can contribute to achieving the institution's objectives, provided that the training period is not less than 6 weeks and can extend to 6 months.

Dr. Youssef Al-Assaf, President of Rochester University of Technology in Dubai:

- He said: The academic framework must be practically activated to include field aspects before and after the training period, by involving companies operating in the market:Designing academic programs and participating in their teaching. Also, the graduation projects prepared by students must be supervised by these companies and at their request, so that the project addresses one of their challenges or real challenges in society.He added: “The private sector must have a field presence on the university campus as much as possible to create an integrated system within the campus in order to train and qualify the student before he goes out to the labor market,” noting that the duration of the training must not be less than 4 months at least for the student and the trained party to reap its benefits.

As Dr. Mohammed Abdul Rahman, Director of the College of Islamic and Arab Studies in Dubai, stated:

- No one disagrees about the importance of practical and field training for students during their university studies, but what is important is: - Greater focus on making practical training begin from the first year of the student's entry into the university stage. Work to align training and link it fully with academic courses that must be linked to labor market developments and needs.

Field training objectives.

- The importance of training lies in the following three main aspects: Importance for the educational institution: It works to renew the information that students received during their theoretical studies, enhance leadership methods, and rationalize administrative decisions, in addition to openness to the external community. Importance for trainees or scholars: It helps students improve their decisions and be able to solve the problems they face in the labor market.T- Importance for the development of human relations: developing methods of social interaction among trainees, improving adaptation skills to changes that occur at work, and strengthening and strengthening the relationship between management, the employer, and the dealing individuals. In addition to his contribution to developing and developing his self-direction to serve the institution in which he works. Rababa: 54, 2003 by disposition

The third axis: Objectives of linking educational programs in higher education institutions with the requirements of the labor market

- Governments make great efforts to determine their needs and requirements for the workforce that fills the gap resulting from economic inflation and population growth. In order for these efforts not to be in vain and for their outcomes to be achieved, they must work on: First: Building an interconnected hierarchical base between governments. As executive bodies with a developmental vision for communities, among universities, and training agencies responsible for preparing cadres and competencies qualified to enter the labor market. Second: Applying the equation of the training needs of workers in the labor market and the gap in the actual performance of workers or the required level of performance.

How do we formulate a vocational training plan?

- After determining the training needs of employees, appropriate training programs are designed, after determining the general objectives of each program, and determining the priorities of these needs. Then the people who will join the training (trainees) are determined. And the appropriate program for each of them. A time frame must be determined for implementing these programs and the trainers, means and training methods to be used shall be identified through the formulation of an integrated plan. The training plan is usually set up annually in the organization

raining program design:

- Designing the training program requires the following: 1- Setting training objectives: This is a list of the knowledge and skills that the trainee must know and acquire, and the tasks that he must perform after completing the training. It is determined with their direct supervisors when training needs are identified by human resources officials.- Determine the program topics: These are the materials that the program should present, and the sequence in the process of presenting them. These topics are determined based on the established training objectives and the information available about them- Selection of training methods: The selection of training methods depends on several factors, including the number of participants, the budget, the availability of training places, in addition to the experience of the trainers.

The fourth axis sheds light on the experiences of successful Arab bodies, institutions, and companies in the field of providing and qualifying cadres to contribute to the labor market. The UAE universities are an example.

- The UAE ranked first in the world in the technical and vocational education and training sector, within the Global Knowledge Index 2022, issued by the United Nations Development Program in cooperation with the Mohammed bin Rashid Al Maktoum Knowledge Foundation. This achievement comes to confirm the state's efforts in implementing the sustainable development goals and its vision for the technical vocational education and training system, which is one of the basic foundations that contribute to enhancing the state's competitiveness. His Excellency Dr. Mubarak Saeed Al Shamsi, Director General of the Abu Dhabi Center for Technical and Vocational Education and Training, said that this achievement reflects the efforts made by the wise leadership to achieve the best for the UAE society and develop national competencies to ensure a promising and sustainable future for future generations. He confirmed the country's progress in this indicator https://www.knowledge4all.com/ranking?Id=3&Color=7FC6BB.. This is due to its excellence in the field of technical and vocational education and training, which includes the quality of qualifications.

Global Knowledge Index: Al Shamsi states: The “Global Knowledge Index” is based on measuring performance rates in the following seven sectors:

- Which have a great influence on the production, dissemination and application of knowledge, which are: A- Pre-university education. B- Higher education. C-Technical and vocational education. D- Scientific research and innovation. E- Economic development, information and communications technology. And - in addition to the enabling environments that support the knowledge climate, the UAE ranked first in technical and vocational education.

- The UAE is considered among the leading countries in the region when it provides education and vocational training opportunities to citizens and residents of its territory. The UAE adopts a well-thought-out, strong, coherent strategy in promoting educfollowingfollowingtraifollowing points: Development of educational curricula. Establishing modern training centers.Providing specialized training programs. Vocational training in the Emirates aims to advance trainees and provide them with the skills, types of sciences, and knowledge that qualify them to enter the labor market with skill.

Areas of vocational training in the UAE:

- he UAE is responsible for all scientific and intellectual specializations, such as engineering, information technology, medicine, arts, tourism, and hospitality. etc.Category participatintrainingtraining:1-Youth: The UAE pays attention to the youth category, as training aims to prepare young people and equip them with the skills they need to participate effectively in the labor market.2-Employees: Employees in the UAE receive the attention of the state as it prepares vocational training programs for them, immigrants and expatriates: The UAE's environment is considered an attractive environment for many expatriates.The public and private sectors: They provide training programs for their cadres and employees, in order to keep pace with global developments, according to which the ladder of development progress is measured.Entrepreneursthiswhich gives entrepreneurs the opportunity to benefit from various training programs to develop their own projects.

Statistics showing the number of university graduates and their specializations:

- According to data issued by the Ministry of Education in the United Arab Emirates, the number of university graduates in applied specializations in 2023 reached approximately 19,650 graduates, distributed as follows:-Engineering: 7,660 graduates -Health and environmental sciences: 2,610 graduatesMedical Sciences: 650 graduates - Information Systems: 774 graduatesGeneral sciences: 77 gradTheseThesegraduatesThese specializations constitute about 30% of the total number of university graduates in the United Arab Emirates, as the number of university graduates in 2023 reached about 65,500 graduates.
  Number of graduates from universities in applied specializations:

The most important applied specializations in the United Arab Emirates

- he most important applied specializations in the United Arab Emirates:-Engineering sciences: civil engineering, electrical engineering, mechanical engineering, chemical engineering, industrial engineering, architectural engineering.-Health and environmental sciences: human medicine, dentistry, pharmacy, nursing, physical therapy, nutrition, environmental sciences.Medical sciences: veterinary medicine, radiotherapy, medical laboratories, radiology.-Information systems: computer science, software engineering, management information systems. And general sciences: physics, chemistry, mathematics, biology.Agriculture: plant production, animal production, food science, irrigation and drainage.The conditions for admission to applied specializations in the UAE vary from one university to another, but in general, most universities require obtaining a specific cumulative GPA, in addition to passing the specialization-specific admission tests.

Examples that show acceptance rates in some UAE universities for applied specializations:

- nited Arab Emirates University:-Engineering: 80% -Health and environmental sciences: 80%.-Medical sciences: 90%.-Information systems: 80%-General sciences: 70%. -Agriculture: 70%.2- Abu Dhabi University:Engineering: 75%. - Health and environmental sciences: 75%. - Information systems: 75%. - General sciences: 65%. - Agriculture: 65%

- hird: University of Sharjah: Engineering: 70%. - Health and environmental sciences: 70%. - Medical sciences: 80%. - Information systems: 70%General sciences: 60%. - Agriculture: 60%.

The German labor market in the UAE

- the German labor market receives great interest from Emirati students for a number of rincludingincludi A- The strong economic growth in Germany, which provides diverse job opportunities for graduates of various specializations. B- The high level of education and training in Gerwhich ensures that graduates are qualified to work in high-quality jobs. Political and social stability in Germany, which provides a safe and prosperous business environment

Factors that contribute to the increased interest of Emirati students in the German labor market

- The presence of a large number of German companies operating in the United Arab Emirates, which provide job opportunities for Emirati students after graduation.The existence of joint training programs between German companies and UAE universities, which help students acquire the skills and practical experiences required for the German labor market.Student exchange programs between the UAE and Germany, which allow Emirati students to experience life and work in Germany.

- Emirati students can benefit from the above factors in joining the Germastudying thrStudyingStudy the specializations required in the German labor market. Get practical training in German companies. Participation in student exchange programs.

Specializations required in the German labor market

- Engineering and health sciences. and information technology. Business, arts, and social sciencesEmirati students can obtain information about the requirements of the German labor market by visiting the German Ministry of Labor website.

raining centers in the Emirates that train according to German standards

- There are a number of training centers currently established in the UAE that train according to German standards. Here are some of these centers:German Institute for Vocational Training (DIBT): The German Institute for Vocational Training is located in Dubai and offers training programs approved by the German government.The German Vocational Training Institute is located in Dubai. It offers training programs approved by the German government in the fields of engineering, information technology, management, and business.It cooperates with a number of German companies to provide practical training opportunities for students.

- **Emirati-GermanEmirati German Vocational Training Foundation (EAG)**The Emirati-German Vocational Training Foundation was established in partnership between the UAE government and the German government. It offers training programs approved by the German government in the fields of engineering, information technology, management, and business. It cooperates with a number of German companies to provide practical training opportunities for students.

Institute of Applied Technology (ITA)

The Institute of Applied Technology in Dubai offers training programs approved by the German government in the fields of engineering and information technology.It cooperates with a number of German companies to provide practical training opportunities for students.

- Dubai Skills Institute (DSM)Dubai Skills Institute offers training programs approved by the German government in the fields of hospitality, trade and manufacturing. It cooperates with a number of German companies to provide practical training opportunities for students.

- Emirates Aviation Academy (EAA)Emirates Aviation Academy offers training programs approved by the German government in the field of aviation.It cooperates with a number of German airlines to provide practical training opportunities for students.

German standards that are applied in these centers

- Curriculum: The curriculum at these centers is developed according to German standards, and focuses on practical and applied skills.Evaluation standards: Students in these centers are evaluated according to German standards, which focus on measuring acquired skills and abilities.Graduation certificates: Students in these centers receive graduation certificates accredited by the German government, which is an acknowledgment of their level of skills and abilities. Vocational training according to German standards is a good opportunity for Emirati students to obtain high skills and abilities, which qualifies them to obtain high-paying jobs in the German labor market. The previously mentioned centers that already exist in the United Arab Emirates are ready to implement a project to train university students in accordance with the standards of the German labor market.

- **The possibility of implementing a training project for university students according to the standards of the German** labor market: Human Resources: These centers have qualified human resources to implement the university student training project in accordance with the standards of the German labor market.Infrastructure: These centers have the necessary infrastructure to implement the university student training project according to German labor market standards.Partnerships: These centers have partnerships with German companies, which can provide practical training opportunities for students. Based on the previous information, it can be said: There are already existing centers in the United Arab Emirates that are ready to implement a project to train university students in accordance with the standards of the German labor market.

n conclusion:

We can say that vocational training for university students provides them with the capabilities and skills necessary to achieve success in the labor market. In addition to improving academic achievement, which affects the final results of students who participate in vocational training programs.It is a decisive card that contributes to the development and progress of societies. By providing individuals with the specific capabilities and expertise required for global labor markets, as well as workforce improvement and economic growth.

Recommendations and suggestions

Updating curricula:

Universities should regularly review and update their curricula to ensure that they are in line with current labor market requirements and trends.

Raising the rate of practical training degrees in universities and increasing the ratio of practical to theoretical training.

Linking graduation projects with practical training and field applications with companies and sectors, according to the needs of the labor market.

Granting a university vocational training certificate if the trainee passes certain hours with competence and skill, and giving him priority to work in companies and institutions.

Granting financial incentives to university students training in sectors and companies according to their levels

All thanks to the Human Restart organization, and to the German Chamber of Commerce and Industry, And to Dr. Youssef and the work team for this wonderful organization and successful planning of the work of the Seventh International Conference.

Thank you for listening

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