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Effect of Science and Technology Parks in Engineering Education

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ABSTRACT

The main purpose of engineering science; scientific facts revealed by taking advantage of the principles, applying these principles, responding to people's needs, different problems, safe, economical and practical solutions to make. Within this framework, our engineers in the development of this understanding, will examine the impact of science and technology park. The purpose of the Science and Technology Park in engineering education, improved design capabilities and design skills needed to solve the problems, knowledge, practices and emerging technologies is to educate engineers who can adapt to. So, researchers developing manpower resources, to provide cheap and high quality production of new products and the improvement of the welfare level is to serve. Engineering education to students in engineering and industrial problem solving skills required to do reviews should be capable of imparting education. For this reason, universities, science and technology parks should be established.

KEYWORDS : Education, Engineering, Science Parks, Technology Parks

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Introduction

The main tasks of a university, conduct research, science to produce, provide high-level training, production, application and to adapt to evolving technologies can be summarized in the form of manpower to prepare. University education in this direction alone, but also comply with current conditions, future developments in progress and should be created to cover [1]. The main objectives of university education; give a good basic education, analysis, thinking, research and inquiry skills, develop the ability to think on a global level, in the form listed.

Engineering is the foundation, under the scrutiny of the issues analyzed to reveal the physical mechanisms of the problem based and emerging technologies, closely following the original work is based on standard made[2].

Engineering is a profession based on scientific knowledge, economic and social forces at the request of mankind directing contribute to the development of civilization. Engineer, find new ideas for industry and technology and can direct thoughts, the judgment can change the living conditions of humanity [3].

Engineering is a system of thought. Is the mathematical thinking skills. Engineering, all from the information obtained through science, reason and experience through the concrete syntheses, deciding to elicit the formation of human beings and of benefit to humanity is the power and effort. Engineering, science, economics, time and physical resources in the best way to evaluate, in search of the optimal solution is to be [4].

Engineering, all of the unknown or unmeasured variables, achieving the optimal solution in a multiple-choice situation, the benefit of people, people to organize, manage, and control the power of nature material can be defined as the art [5].

Engineering, all from the information obtained through science, reason and experience through the concrete syntheses, deciding to live with a human or a more general context, power and is an attempt to elicit the formation of useful [6].

Engineering is the art of science applications. The main goal of this art; taking advantage of the principles of scientific facts revealed, applying these principles, responding to people's needs, different problems, safe, economical and practical solutions [7].

ABET (The Accreditation Board for Engineering and Technology) by engineering, "mathematics and physical sciences, study, experience and practice gained through engineering logic, using the natural resources and the power of the economic benefit of mankind submission"; engineering education as a key measure, the "productive to pursue a career in engineering, professional development training for graduates to be open is defined as ".

Prepared by the ABET Engineering Criteria 2000, required the development of engineering education programs or features that are defined as follows.

a) mathematics, basic sciences and engineering practice ability,
b) experimental design, experimentation, data analysis and data interpretation skills,
c) a system having the desired properties, the ability to design components or solution methods,
d) Ability to work in an interdisciplinary group,
e) Identify engineering problems, modeling, solving skills,
f) ability to be aware of professional and ethical responsibility,
g) ability to communicate in an active form,
h) the impact of engineering solutions in a global and societal context to create a broad viewpoint to comprehend,
i) Requirements definition, the ability to work in lifelong learning,
j) be familiar with the regulations in force,
k) modern engineering tools necessary for engineering practice, skills and ability to use techniques [8].

The purpose of engineering education to students besides imparting a contemporary basic science and engineering knowledge, creativity, research techniques, methods of solving a problem is to self. In today's fast-paced world of knowledge production as access to information and methods of using it are also important. How important is the theoretical knowledge of the engineering profession, the field of application of this theory and application forms should be noted that the more important of the known [9]. In this context, the first objective of the universities and research in undergraduate education should be to achieve the best. For this purpose, students' intellectual and personal development to the highest point, remove and knowledgeable graduates to train scientists and research should be the main task of each

university. University-industry cooperation should be developed. Engineering education to students in engineering and industrial problem solving skills required to do reviews should be capable of imparting education . Students should be made to the vaccination of self-confidence.

students on their own problem-solving abilities should be developed. Soils need to be prepared for it, so every university should establish research centers and science parks. Technological developments, catch, reveal new technologies and to accelerate the country's development, industry and university education should be used in common with engineering studies.

2. SCIENCE AND TECHNOLOGY PARKS:

By world standards of Technopark objectives are :

- University education, training and research activities, supporting the enriching of universities to enable services to be
- To improve the competitiveness of the industry,
- Technology -based regional economic development and to accelerate.
- Technology transfer to increase
- To increase opportunities for education

Technoparks

- Connected technology industries to be strengthened where they are located,
- Supporting the development of new industrial areas,
- realization of innovative work,
- training and more efficient working conditions and increasing productivity and
- In order to increase competitiveness in the international arena is established.
  Technopark, scientific and technological work, spend stages of development and prototyping environment are creating them to put into commercial applications.

There are four basic elements to produce technology:

1. Researchers have manpower qualifications,
2. Sufficient knowledge,
3. Adequate financial resources,
4. R&D in a programmatic way to make it work.

In technology development, in accordance with these items in the world has been tried many method-association. The most efficient of the University-Industry dialogue between research institutions and the association is formed.

Technology in line with the four basic elements of producing joint goal of technopark;

Trained manpower in the fields of science and technology by creating new entrepreneurs, universities and R & D organizations founded by entrepreneurs skilled in the accumulated knowledge through technology oriented firms is to ensure economic transformation. Technopark, technology intensive industries are located where they empowerment in new regions, the development of industry, supporting innovative work of realizing, of education, as well as more efficient operating conditions by increasing productivity and international competitiveness in order to raise is established

3. EFFECT OF EDUCATION OF THE SCIENCE AND TECHNOLOGY PARKS:

Science Parks; universities collected in the development of advanced technology-based companies or research institutions are the sites of the enchanted. Science Park is the source of scientific and technological progress, universities with qualifications suitable for this purpose the company and research-development organizations are juxtaposing organizations. Basic pursued research projects have been developed on the basis of new technology based on large enterprises or enterprises are young with a university or research institutes by establishing close relations, scientific-based technologies are organizations that provide support to production. The scope of the project and prototype production to basic research is supported by the par .

Technology Park; Technology development and improvement of new technologies, especially the parks are important to the application stage. In order to increase the international competitiveness of quality improvement, development of new products and manufacturing processes purposes. Technology-based companies to support the installation of the university's scientific potential and aims to improve connectivity in the industr .

Basic dimensions of engineering education, engineering constantly be productive throughout his career and professional development of graduates trained to be able to open. The main objectives in engineering education, the needs of the community have the qualifications to build the solution is to train staff. Them to prospective engineers can provide you with hatchet Science and Technology Park.

If we establish a college of science and technology park, the university's science and technology infrastructure facilities to meet the needs of the industry in order to be presented to the industry as a system of events is applied. This application engineers, product development, problem solving and industrialists to develop an understanding of the scientific occurring all will gain the ability to solve problems in a short time. These organizations also grow more quickly to new technology engineers, ensuring product quality improvement , the development of new products and production processes will be able to become an expert. From this perspective , science and technology parks, industrial and technological knowledge that is required to be able to provide qualified engineers.

All around the world to ensure economic, social and political developments in the field of technological development is possible. At the basis of the technological advances made in the field of science and technology and of the advances of the present invention can be applied lies. In a globalizing world knowledge in order to improve the competitiveness of enterprises and the financial means and the emergence of new products combined with economic value is to contribute to the economy turned into a salable product. Therefore, the places where scientific knowledge is produced only in basic research at the universities of applied research and development work must also be done instead. The results of these scientific studies conducted at universities transferring scientific knowledge to the industry that uses technology based production shall be realized . This was carried out of production, which induce the formation of new enterprises and university-industry cooperation as opposed to experiencing the sights, there is the concept of science and technology parks. Science and technology parks; discoveries and developments in the field of science and technology entrepreneurs through the transfer into industry, universities and research institutions, implementation of the scientific results of the study are the most effective mechanisms.

Universities that country's industrial potential and economic power to promote more decisive and routers play a role, the university has produced scientific knowledge, new technologies and economic fields to the creation of a foundation, the industry needs the brain for cultivating continuous system goes in search of. Here at universities which will strengthen the understanding of the concept is the concept of science and technology parks. These parks will create a very good cooperation between universities and industry, as well as the industry in the development of both the university and will play a very important role in strengthening. Thanks to the cooperation mentioned industrialists, problems solving by a ready-made opportunity to take advantage of your brain power reaping the idle capacity in universities to mobilize , they also find themselves in a wide range of application areas.

Development of a country and come to the forefront in the industry the most important requirement is to pass through a solid education. For development before anything else connected to the development of the science- trained man therefore must not forget that. For this, the University of Science and Technology in establishing parks, university education, teaching and research activities of universities will raise and enriches the services are activated . Meeting of science and technology park provides engineers with science , provides information resources to learn from the best industry practices and science can teach the application centers.

Conclusion:

Universities and education, which serves as structures, mainly producing science, earth science publications and contribute to removing the basic knowledge for producing entities. Industry, science is concerned

with the technology outcomes. Manufacturers racing against time and the problem is difficult to solve in a very short time. Product quality in line with customer demand, and continuous national and international standards in the market to meet the demands of customers are obliged to have. This is the case because, universities, engineering candidates, information technology products and converting into commercialization and technology transfer environment suitable for Science and Technology, parks raising means, engineers technological information in the best way to industry adapt the level to arrive, comes standard product and productivity growth to assure the level to be means.

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