

“Palestine Technical University Contribution in Achieving Society Development”

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Abstract:

The study aimed to identify Palestine Technical University contribution in achieving society development; and examined the role of the variables: place of residence, collage, and academic level, The descriptive approach was used, as the researcher developed a questionnaire consisting of (25) items that examined the subject of the study, The study population consisted of all the (1761) students of Palestine Technical University Kadoorie (Ramallah branch) registered in the second semester of the academic year 2022/2023, a sample of (350) was selected. The results showed that Palestine Technical University contribution in achieving society development was High; it also indicated that there were no statistically significant differences due to place of residence and academic level, While it indicated that there were statistically significant differences due to collage between computer science collage and Business Management collage in favor of Business Management collage, and between art collage and Business Management collage in favor of Business Management collage.

Keywords: Society development, Palestine Technical University, University role.

Introduction:

The era in which we live is characterized by rapid development, as one of its most important features is the knowledge explosion and contemporary technical developments, and this acceleration resulted in a clear impact on the educational fields, and scientific, cultural and technical progress occurred on them, which had a positive impact on all the scientific and research institutions of society and the various work institutions (Veit, 2021). Therefore, there is an urgent need to modernize and develop teaching methods and methods of education, in order to prepare and nurture effective human cadres that keep pace with this rapid development in all areas of knowledge, technology and information life, which leads to achieving the mission of the educational institution (Anderson, 2012).

The educational institution's performance of its mission depends on several factors that make up the higher education system, which work together in a dynamic way to ensure the achievement of its goals by performing its functions properly, and given that the field of achieving these goals is students, teachers and society, this gave an advantage to higher education institutions by its direct connection to various aspects Life in societies and their possession of two areas are students and teachers, so they must ensure that they possess all the elements and capabilities of continuous development and renewal (Camilleri, 2021). Development is a broad concept in which thinkers and specialists differed in their different specializations, and there is a fact that development is a complex and comprehensive process for all aspects of life: Economic, social, political, cultural, and ideological. Development is a process of change that aims primarily at raising the level of the individual in all aspects of life by involving all members and individuals of society in this process (Al-Anzi, 2014).

This led to a change in the concept of development after World War II, after development theories remained for many years focused on economic growth as a concept of development, which is based on the principle of increasing per capita income through increasing production in the various economic and service sectors, and dealing with the human being as one of the elements of the development process. (Mustafa et al. 2021). Like the rest of the elements such as: capital, equipment, and facilities, but because of the setbacks suffered by many experiences and endeavors of economic development, specifically in the third world countries, the concept of development witnessed a reconsideration and the economic, social and cultural aspects were merged together (Abdul Salam, 2006).

In light of this, keeping pace with applied scientific and technological progress is a natural matter because it is the real gateway to development and the making of the future of the nation (Saputro et al. 2020), by means of its members living with the era influencing and being affected, and searching for solutions that impede development plans, and prevent the investment of its human and natural energies and capabilities to the fullest, and deliberately Development plans in contemporary societies aim to raise the level of performance of the human workforce through preparation, guidance and training, and to ensure the continuation of development in an integrated manner (Nerubasska et al. 2020). Therefore, training programs for workers constitute an important element in any development process, as professional development is one of the modern multi-directional entrances that occupy those interested in university education reform issues now (Ghabbour, 2010). Therefore, the discussion on issues of professional development for workers in educational institutions is long and ramified, given that the world of work is diverse and constantly changing to meet new challenges that can offer many job opportunities that are consistent with the changes in the world of work at the present time, and this diversity was the cause of the most important transformations witnessed (Fernández-Batanero et al. 2022). Societies during recent decades, namely the expansion of the field of education in all its stages, and the trend towards technical education due to the great role that this type of education plays in building modern societies on the one hand, and expanding development on the other hand (Abu Jarad, 1994).

The expected role today of Palestine Technical University Kadoorie requires it to ensure the graduation of technologically qualified cadres to contribute to bridging the existing deficit in the labor market, and to develop its outputs in support of development plans (Al-Awadi, 2015). Therefore, the need to restructure technical education has become necessary in light of modern technological developments, as it would To ensure that they are prepared with a degree of required competence, and carry out their duties in the facilities in which they work at a high level of quality, so the tendency is to pay attention to

the human resource in the social and economic development plans for the advancement of the society in light of the current conditions it is going through (Sergeieva et al. 2021)

Gaps in the Literature

Measuring Universities contribution in achieving society development is an important topic of modern era in terms, and the theoretical literature did not address the contribution of Palestine Technical University Kadoorie to the development of the Palestinian society, which it has been serving for nearly a hundred years. That what this study aimed to.

The originality of the present study

Palestinian universities are one of the most important tools for change in the prevailing thinking pattern and the real field for building and shaping the personalities of students in them, who represent the human and intellectual capital that feeds into society and contributes to its construction and development. Palestine refers to the failure of the administrations of these institutions in training their educational cadres. Therefore, the members of the academic staff in these institutions need care and attention in terms of career growth and continuous training, to keep up with modern sciences, knowledge and skills and to achieve continuous improvement in their performance, by working based on a strategic plan It aims to develop the professional development and its programs for members of the academic bodies, to bring the governmental technical education institutions in Palestine to the ranks of the advanced international institutions.

Aim of the study

Recognizing Palestine Technical University contribution in achieving society development. In addition, identifying the estimates of the study sample due to the study variables: place of residence, collage, and academic level.

Research Question

What is Palestine Technical University contribution in achieving society development?

Based on the main question the following sub-question formed:

Is there a difference in Palestine technical university contribution in achieving society development due to place of residence, Collage, and academic level?

Study Hypothesis:

1. There are no statistically significant differences at the level ($\alpha \leq 0.05$) between the estimates of the study sample to Palestine Technical University contribution in achieving society development due to place of residence.
2. There are no statistically significant differences at the level ($\alpha \leq 0.05$) between the estimates of the study sample to Palestine Technical University contribution in achieving society development due to Collage.
3. There are no statistically significant differences at the level ($\alpha \leq 0.05$) between the estimates of the study sample to Palestine Technical University contribution in achieving society development due to academic level.

The significance of the Study:

As it relates to a very important topic of the modern era in terms of measuring the contribution of Palestine Technical University Kadoorie in the development of society, and this study may considered the first at this level as far as the researcher knows. Those interested in society development and the role of universities in achieving it may benefit from this study.

Definition of Terms:

Palestine Technical University: is the first Palestinian governmental university in Palestine. It includes three branches covering the country's governorates (north, middle, and south). It offers diploma, bachelors, and master's degrees in multiple disciplines.

Society development: is the employment of all material and human energies, and it focuses first on investing in human resources by empowering them and developing their abilities and preparations, and all their groups and components. As women are a major component of the human resources of any of the societies, and they constitute half of these resources, they have a dual role Represented in its contribution to the implementation of economic and social development programs, as well as its role in raising generations and preparing them to be a major factor in the development of emerging human resources as well (UNESCO, 1996).

Methods (Design of the Study):

The current study adopted the descriptive analytical approach. After collecting the data, the researchers used the analytical-statistical method to answer the question of the study and interpreted the results.

Population and sample of the study:

Population of the study:

The population of the study consisted of all students at Palestine technical university for the second semester of the academic year 2022/2023. The total Number was (1761).

Sample of the Study:

From this population a (350) sample of students from a random cluster were chosen to respond to the questionnaire.

Table (1)

Statistical description of the research sample according to demographic variables

| Demographic Variables | | Frequency |
|-----------------------|---------------------|------------|
| Place of residence | Camp | 79 |
| | Village | 193 |
| | City | 78 |
| | Total | 350 |
| Collage | Media | 20 |
| | Arts | 76 |
| | Sports | 84 |
| | Business Management | 135 |
| | Computer science | 35 |
| | Total | 350 |
| Academic Level | First | 79 |
| | second | 84 |
| | third | 123 |
| | fourth | 64 |
| | Total | 350 |

Instruments of the study:

The researcher developed Questionnaire to examine Palestine technical university contribution in spreading of technical education culture in the Palestinian society, it consists of two sections. The first section included personal information about the respondents. The second section included (25) items, to investigate Palestine technical university contribution in spreading of technical education culture in the Palestinian society, The researcher developed the questionnaire with 3-point Likert scales ranging from strongly agree - strongly disagree.

Validity of Instruments:

To ensure that the content of the questionnaire was valid, it handed to a jury of professional doctors in the field at Palestine technical university, The Panel of judges asked to evaluate the opportunities of the instrument to the whole purpose of the study. They accepted the items and the parts of the questionnaire, but they asked the researchers to follow some modifications. The researchers took these recommendations into amount before issuing the final draft of the tool, and then the instrument distributed to the subject of the study.

Reliability of Instruments:

Cronbach's Alpha Value for the questionnaire was (82.4%) which is appropriate for the purposes of the study.

Procedures of the study:

The study carried out in the following manner:

1. The relevant literature reviewed to establish the theoretical background of the study.
2. The population identified and the samples selected on which the instruments applied.
3. The questions of the study put up, depending on previous studies.
4. The reliability and validity of the instruments approved.
5. The researcher distributed the instruments on students.
6. The instrument distributed and gathered in the Second semester of the scholastic year 2022-2023.
7. The data was gathered and analyzed by using SPSS program.
8. The researcher explained the information to reveal whether the outcomes agree or disagree with previous studies.

Variables of the study:

1. **Independent variables:** Place of residence (City/Village/Camp) , Collage (Media/Arts/Business Management/Sport/computer science), Academic level (First year/Second year/Third year/Fourth year).
2. **Dependent variables:** Palestine Technical University contribution in achieving society development.

Data Analysis:

In order to analyze the data, the researchers used statistical Package for social science (SPSS), descriptive statistics (means, frequencies, percentage, and Std. Deviation) and inferential statistics. (Independent T-test, one-way ANOVA, LSD and Cronbach Alpha).

Results and discussion:

To determine Palestine technical university contribution in achieving society development, and in order to interpret the results, the following arithmetic means and percentages were adopted:

An arithmetic means of (1.8–2.59) or (36–51.9%) indicates a low score.

The mean (2.60 – 3.39) or (52 – 67.9 %) indicates a Moderate score.

An arithmetic means of (3.40 –4.19) or (68 – 83.9%) indicates a high degree.

Results related to the first question:**What is Palestine technical university contribution in achieving society development?**

To answer this question, the researcher calculated the arithmetic means and standard deviations of the study sample's estimates of Palestine Technical University contribution in achieving society development for each paragraph of the tool and for the total score. Table (2) shows that.

Table (2): means, Std. Dev. and degrees of the items of the questionnaire (ranked in descending order).

| # | Item | Mean | Std. Dev. | degree |
|----|--|------|-----------|----------|
| 25 | The university promotes the values of social responsibility among its students through its extracurricular activities. | 4.17 | 1.18 | High |
| 17 | The university helps its students to develop their skills in computers and various means of knowledge. | 4.15 | 1.20 | High |
| 23 | The university offers specializations that help develop the society. | 4.15 | 1.22 | High |
| 15 | The university helps the scientific development of special cases. | 4.08 | 1.19 | High |
| 24 | The university works on networking with local society institutions in order to develop its curricula in accordance with its needs. | 3.99 | 1.19 | High |
| 8 | The university contributes to finding solutions to social phenomena that would hinder the development of society. | 3.79 | 1.21 | High |
| 16 | The university provides its students with the administrative skills necessary for them to work on developing society institutions. | 3.71 | 1.34 | High |
| 2 | The university provides students with the opportunity to aspire to complete higher education to serve the society. | 3.68 | 1.15 | High |
| 3 | The university provides students with skills and qualifications that benefit them in developing society institutions. | 3.67 | 1.17 | High |
| 7 | The university helps its students understand their role in society service and development in a practical way. | 3.65 | 1.17 | High |
| 14 | The university helps its students seek solutions to society issues by helping them to become familiar with them. | 3.62 | 1.29 | High |
| 6 | The university contributes through its activities to promoting the values of society service among its students. | 3.55 | 1.25 | High |
| 12 | The university supports the educational rights of women in society in the various stages of education. | 3.54 | 1.16 | High |
| 1 | The university instills in students the courage to face society. | 3.54 | 1.17 | High |
| 10 | The university helps students understand their political duties that contribute to the development of society's institutions. | 3.53 | 1.15 | High |
| 13 | The university helps its students realize that raising the efficiency of women in the institutions of society raises their ability to contribute to development. | 3.45 | 1.27 | High |
| 18 | The university helps to enhance the self-confidence of its students regarding their role in the development of society. | 3.38 | 1.43 | Moderate |
| 4 | The university teaches its students the skills of positive integration into society. | 3.35 | 1.24 | Moderate |
| 19 | The university helps its students to raise their level of respect for the culture of the society. | 3.31 | 1.28 | Moderate |
| 21 | The university instills in its students the motivation for achievement. | 3.31 | 1.20 | Moderate |
| 20 | The university highlights to its students success stories of individuals in society from Arab, Islamic and international history. | 3.30 | 1.30 | Moderate |

| | | | | |
|----|---|-------------|-------------|----------|
| 22 | The university encourages its students to break into unique branches of knowledge that contribute to the development of society. | 3.26 | 1.31 | Moderate |
| 9 | The university provides students with the opportunity to develop their leadership skills with the aim of positively influencing the development of society. | 3.21 | 1.20 | Moderate |
| 11 | The university makes students more ambitious with regard to the development of society than they were before joining it. | 3.13 | 1.18 | Moderate |
| 5 | The university helps its students to develop their capabilities and abilities and harness them in the development of society institutions. | 3.10 | 1.29 | Moderate |
| | Total | 3.58 | 0.07 | High |

The previous table shows that Palestine Technical University contribution in achieving society development was High, mean of the total score was (3.52) out/off (5).

Results related to the second question:

Is there a difference in Palestine technical university contribution in achieving society development due to place of residence, Collage, and academic level?

To answer this question, the researchers investigated the following hypothesis:

Results related to the first Hypothesis:

There are no statistically significant differences at the level ($\alpha \leq 0.05$) between the estimates of the study sample to Palestine Technical University contribution in achieving society development due to place of residence.

To test this hypothesis, the researcher used one-way ANOVA- test, table (3) shows: The results of one-way ANOVA- test for the differences in participant's responses related to Palestine technical university contribution in achieving society development due to place of residence.

Table (3): the results of ANOVA- test for the differences in the participant's responses related to Palestine technical university contribution in achieving society development due to place of residence.

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|-----|-------------|------|------|
| Between Groups | 0.3000 | 2 | 0.1000 | 0.38 | 0.76 |
| Within Groups | 35.305 | 348 | 0.2580 | | |
| Total | 35.605 | 350 | | | |

The results in this table (3) show that the level of significance for the differences in the participant's responses related to Palestine technical university contribution in achieving society development due to place of residence is (0.76) this means that there are no statistically significance differences at ($\alpha < 0.05$). Thus, the hypothesis accepted.

Results related to the second Hypothesis:

There are no statistically significant differences at the level ($\alpha \leq 0.05$) between the estimates of the study sample to Palestine Technical University contribution in achieving society development due to Collage.

To test this hypothesis, the researcher used one-way ANOVA- test, table (4) shows: The results of one-way ANOVA- test for the differences in participant's responses related to Palestine technical university contribution in achieving society development due to Collage.

Table (4): the results of ANOVA- test for the differences in the participant's responses related to Palestine technical university contribution in achieving society development due to Collage.

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|-----|-------------|------|------|
| Between Groups | 1.971 | 2 | 0.657 | 2.67 | 0.05 |
| Within Groups | 33.635 | 348 | 0.246 | | |
| Total | 35.605 | 350 | | | |

The results in this table (4) show that the level of significance for the differences in the participant's responses related to Palestine technical university contribution in achieving society development due to Collage is (0.05) this means that there are statistically significance differences at ($\alpha < 0.05$). Thus, the hypothesis rejected.

To clarify to whom the differences refer to, the researcher used the LSD (the less significant deference's test) as shown in table (5).

Table (5): the results of LSD test for the participant's responses related to Palestine technical university contribution in achieving society development due to Collage.

| (I) Experience | (J) Experience | Mean Difference (I-J) | Sig. |
|------------------|---------------------|-----------------------|------|
| computer science | Business Management | 0.227 | 0.04 |
| Arts | Business Management | 0.273 | 0.02 |

The result in table (5) shows that the statistically significance differences were between computer science collage and Business Management collage in favor of Business Management collage, and between art collage and Business Management collage in favor of Business Management collage.

Results related to the third Hypothesis:

There are no statistically significant differences at the level ($\alpha \leq 0.05$) between the estimates of the study sample to Palestine Technical University contribution in achieving society development due to academic level.

To test this hypothesis, the researcher used one-way ANOVA- test, table (4) shows: The results of one-way ANOVA- test for the differences in participant's responses related to Palestine technical university contribution in achieving society development due to academic level.

Table (4): the results of ANOVA- test for the differences in the participant's responses related to Palestine technical university contribution in achieving society development due to academic level.

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|-----|-------------|------|------|
| Between Groups | 0.189 | 2 | 0.094 | 0.33 | 0.72 |
| Within Groups | 130.520 | 348 | 0.287 | | |
| Total | 130.709 | 350 | | | |

The results in this table (4) show that the level of significance for the differences in the participant's responses related to Palestine technical university contribution in achieving society development due to academic level is (0.72) this means that there are statistically significance differences at ($\alpha < 0.05$). Thus, the hypothesis accepted.

Conclusion

The study results showed Palestine Technical University contribution in achieving society development was high, with a mean of (3.58) out/off (5). The result also revealed that there were no statistically significant differences in due to place of residence and academic level; however, there were statistically significant differences due to collage between computer science collage and Business Management collage in favor of Business Management collage, and between art collage and Business Management collage in favor of Business Management collage.

Discussion of the study results:

1. The researcher attributed The high Palestine Technical University contribution in achieving society development to the following: The university's promotion of the values of social responsibility among its students and its assistance to them in enhancing their skills in the computer and various cognitive media, as well as its provision of specializations in accordance with the needs of the society, are among the important things that give the impression that the university is playing its role in the development of society well, with the need for its attention More in addition to the leadership skills of its students and working on their development as well as on developing their capabilities and capabilities and harnessing all of these in the service, development and development of society.
2. The researcher attributed that there are no statistically significant differences with Palestine Technical University contribution in achieving society development due to place of residence to the following: All students, regardless of their places of residence, are aware of the great role assigned to the university and its role in the wheel of society development, as it is considered the cornerstone in building students' personalities, developing their capabilities and capabilities, and providing them with the skills and knowledge necessary to serve the institutions of society after their graduation and their involvement in them, which helps in the development of society.
3. The researcher attributed that there are no statistically significant differences with Palestine Technical University contribution in achieving society development due to collage to the following: The nature of the majors of business,

economics, science and literature, as they are two majors that are more required by the institutions of society, and the size of this demand may have given the impression to students that their contribution to the development of society's institutions and thus the development of society itself is higher than other majors.

- The researcher attributed that there are no statistically significant differences with the Palestine Technical University contribution in achieving society development due to academic level in favor of the fourth-year students to the following: Awareness of students at different academic levels of the role of the university in achieving society development and development through all areas of its work and its relationship with the surrounding society.

Limitations of the study:

The current study has the following limitations:

- The population of study consisted of Palestine technical university students.
- The study carried out in the second semester of academic year (2022-2023).
- The study was limited by the concepts and definitions mentioned in it.

Recommendations:

In light of the results, the researcher recommended the following:

- The importance of the university's interest in enhancing the achievement motivation of its students, through activities that support this.
- The importance of the university's interest in holding meetings between students and individuals from the society with success stories, which are widely available in the Palestinian society.
- The need for the university to encourage its students to break into unique and new branches of knowledge that contribute to the development of society, through observing the tendencies of its students and encouraging them to develop them.
- The need to hold courses that aim to enhance leadership skills among students, and seek the help of experts in this field.
- The need for the university to nurture the ambition of its students by opening the horizons of science and technology to the Western world and the progress and development they have achieved.
- The need for the university to help its students to discover their different potentials and capabilities and to provide them with ways to harness these capabilities and capabilities for the goal of society development.

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"مساهمة جامعة فلسطين التقنية في تحقيق التنمية المجتمعية"

إعداد الباحثة:

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ملخص:

هدفت الدراسة إلى التعرف على مساهمة جامعة فلسطين التقنية في تحقيق تنمية المجتمع؛ وفحصت دور متغيرات: مكان الإقامة، والكلية، والمستوى الدراسي، واستخدمت المنهج الوصفي، حيث طور الباحث استبانة مكونة من (25) فقرة فحصت موضوع الدراسة، وتألف مجتمع الدراسة من جميع طلبة جامعة فلسطين التقنية خضوري (فرع رام الله) المسجلين في الفصل الدراسي الثاني من العام الدراسي 2023/2022 والبالغ عددهم (1761) طالباً وطالبة، وتم اختيار عينة بلغت (350) طالباً وطالبة. وأظهرت النتائج أن مساهمة جامعة فلسطين التقنية في تحقيق تنمية المجتمع كانت مرتفعة؛ كما أشارت إلى عدم وجود فروق ذات دلالة إحصائية تعزى لمتغير مكان الإقامة والمستوى الدراسي، بينما أشارت إلى وجود فروق ذات دلالة إحصائية تعزى للكلية بين كلية علوم الحاسوب وكلية إدارة الأعمال لصالح كلية إدارة الأعمال، وبين كلية الآداب وكلية إدارة الأعمال لصالح كلية إدارة الأعمال.

الكلمات المفتاحية: تنمية المجتمع، جامعة فلسطين التقنية، دور الجامعة.