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## The rating and comparison of sport facilities of Azad Universities of Kerman with existent standards

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### ABSTRACT

The aim of this study was the ratings and comparison of sport facilities of Azad universities of Kerman with existent standards. The research method was descriptive and the method of data collecting was the field research, in term of aim was the applied research. To collect the data, the check lists were used that made by researcher and to determine the validity, the check lists gave to 15 of sport teachers in universities and sport commentators and their comments were considered in the check lists. Then, to determine the objectivity after completing the check lists for 5 indoor and outdoor sport complexes by researcher and co-workers, objective coefficient was 0.83. Statistical society was all of the Kerman Azad university (n=14) that statistical sample of the research was considered as statistical society. In this study, descriptive statistics was used to examine the data. The findings showed that in rating of Azad Universities of Kerman province, based on per capita of outdoor sport spaces and comparison with per capita student of outdoor sport spaces in Iran and international standards, Bardsir Azad University was standard only. Based on per capita of indoor sport spaces and comparison with per capita student in Iran and international standards, Anbar Abad and Zarand have per capita student of indoor sport spaces in Iran only. Therefore, according to these findings we can conclude that there is a significant difference between per capita indoor sport spaces and score. And according to the rating based on the public facilities, the first rank belonged to Kerman and based on all of expert equipments in indoor spaces, the first rank belonged to Kahnooj and in outdoor spaces, the first rank belonged to Zarand.

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## INTRODUCTION

The active participation of people in sport can be encouraged by the physical environment of a neighborhood (Sallis, 1998). When the activity becomes significant and achieves to its aims, which is done in a secure environment with standard equipment. You have to remember that, the main aim of physical activities is keeping health and if a physical activity endangers the main approach of the physical education loses its value and validity (Lhotsky, 2006). Many countries spend a large part of public investment to construct the sport facilities (Lombardi and *et al*, 2003) Sport and physical education is a new discipline in Iran that still was managed traditionally. Although so far the changes have been made in this area, but so far there is a gap to reach international standards. Also sport facilities and spaces are no exception and in the terms of quantitative and qualitative there is a long way to achieve conventional international standards. Undoubtedly, the barriers, dangerous and nonstandard instruments and using the depreciated and obsolete equipment cause physical injuries and death in some cases for the users of these spaces. While some of these risk factors can cause damages during by lapse of time and maybe the others cause serious losses in the certain moments and also sometimes cause loss of life and property that will lead to lawsuits (Thompson, 2005). Inter faculties national association of sports believes that sport in universities causes the development of the factors of the accountability, the respect, the leadership and the sportsmanship in the students and increases their experiences in the educational sector. The student sport can affect on university's reputation, the number and the quality of the students and culture that we work in (Sayar Nejad, 2009) To fill spare time by sport activities and growth and development of various talents of the students is the main aim of university sport. Regarding necessity of the sport and need for facilities and appropriate places for exercise students and according to existent standards, there is no the clear view of the situation of the sport places and facilities of Azad University in Kerman province. Also, some of the university still have no independent sport places, on the one hand, we face with

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progressive increase in quantitative admission of students in universities and it seems that sport facilities of university don't increase in proportion to increase in the number of the students, also, it seems that per capita sport for students is low and there is a gap with international standards. (Muharram Zadeh, 2012) According to these subjects, since there is no a clear status of the available facilities based on the necessary standards in university of province, and since, there is no the ambiguity of budget allocations from the Science Ministry on the subject of facilities and equipments. Sports facilities can be considered as a small component of sport of universities. The researcher is going to rate and compare sport facilities of Azad Universities of Kerman province according to available standards. The sport places are the most fundamental part of hardware in the field of the physical education and sport and an important component of human organizations. (Stahl, 2001) According to country's needs and current policies based on increase of per capita sport space, the macro investment has been done for the construction and the development of sport places by the government and the private sector, but due to the lack of the expert and study references, majority of constructed sport places or under construction have no engineered sports standards. Thus in education, practice, and competitions which are major parts of the sporting activities, disruption and investments have no the qualitative and the optimal achievements (Stahl, 2001). According to assessments conducted at the universities generally in the field of sport management of universities and human resources and sports facilities, it seems that sport facilities and equipments are the insignificant part of this assessment and universities should be ranked based on them to capture specific budget of these features. It is hoped that we can plan to construct, distribute, efficient use of sport places and available sports facilities and avoid wasting investment and facilities appropriately, until by this way, people and students interest in participating in sporting activities. The rating and the comparison of the sport facilities of the universities by international standards can be effective to create a constructive and healthy competition between the universities to improve facilities and also, to capture the suitable budget from the Ministry of Science to enhance the quality and quantity of the facilities towards the standards.

#### *Research method:*

The research method was descriptive and the method of data collecting was the field research, in term of aim was the applied research. Statistical society of this research was all of the sport places of Azad universities of Kerman province. According to the aim of the research, the sample was considered as statistical society. The appropriate criteria were collected through the check list and face to face in each university by researcher. In this study, the data collection instrument was a researcher-made Check list, that was studied in the result extracting based on Liker scale of five values, the variables that have been measured by check lists, and according to the aims of the research, statistical analysis were performed towards desired aims.

#### *The check list of the evaluation of indoor sports places of Azad Universities of Kerman province:*

The Check list includes concrete variables, including: name and address of university, year of establishment, user status, area and time of evaluation, and these variables have examined status of indoor places:

a) grandstand, b) inlet and outlet doors, c) Status of Barriers, d) the panels and guide symptoms, e) Status of Light and Sound, c) Toilets, changing rooms and showers, g) ventilation and temperature maker, h) contributions primary; also check lists of evaluation examined activity area, playground and equipments in the field, volleyball, basketball, handball, badminton, table tennis, gymnastics, wrestling, martial arts, bodybuilding, archery and swimming in the indoor pool, including variables: a) the activity area or playground and b) necessary equipment for outdoor places.

#### *The check list of the evaluation of outdoor sports places of Azad Universities of Kerman province:*

The Check list includes concrete variables, including: name and address of university, year of establishment, user status, area and time of evaluation, and these variables have examined status of outdoor places:

a) The status of construction and place of construction, b) inputs and outputs, c) toilets, changing rooms, d) status of space floor, e) Status of Light and Sound, d) contributions primary; also check lists of evaluation examined activity area, playground and equipments in the field, Athletics, football, volleyball, handball, badminton, tennis, skating, bike riding and swimming in the outdoor pool, including variables: a) the activity area or playground and b) necessary equipment for outdoor places. Also, all of the check lists of indoor and outdoor public and special places set based on Likert continuum (scale 5 values).

#### *Validity and objectivity of instrument:*

To determine the validity, the check lists gave to 15 of sport teachers in universities and sport commentators and their comments were considered in the check lists. Then, to determine the objectivity after completing the check lists for 5 indoor and outdoor sport complexes by researcher and co-workers, objective coefficient was 0.83.

*The performance method of the research:*

After study of the background and determine the criteria of the research by experts, the researcher designed the required check lists, and the researcher and his trained colleagues, after taking the letter of introduction, to obtain more information about sport places of Azad universities of Kerman, went to Azad Universities of Kerman with prior appointment and completed the check lists face to face.

*Statistical methods:*

In this study, for data analyses used descriptive and inferential statistics by using SPSS 20 software. Descriptive statistics were used to organize, summarize and classification of inexperienced scores and the inferential statistics of t-test with one sample was used to analyze and test the research hypotheses.

Table1 shows Azad Universities of Kerman province and their per capita of indoor and outdoor sport spaces.

**Table 1:** per capita of indoor and outdoor of the universities

| Name of University               | Per capita |        |
|----------------------------------|------------|--------|
|                                  | Outdoor    | Indoor |
| 1-Azad University of Kerman      | 0.65       | 0.21   |
| 2-Azad University of Jiroft      | 1.06       | 0.41   |
| 3-Azad University of Sirjan      | 0          | 0.19   |
| 4-Azad University of Zarand      | 0.51       | 1.59   |
| 5-Azad University of Bardsir     | 5.88       | 1.18   |
| 6-Azad University of Baft        | 0          | 0.52   |
| 7-Azad University of Shahr Babak | 0.37       | 0      |
| 8-Azad University of Kahnooj     | 0.18       | 0.39   |
| 9-Azad University of Bam         | 0          | 0.26   |
| 10-Azad University of Mahan      | 0          | 0      |
| 11-Azad University of Koohbanan  | 0          | 0      |
| 12-Azad University of Anbar Abad | 0          | 1.78   |
| 13-Azad University of Anar       | 0          | 0.32   |
| 14-Azad University of Rafsanjan  | 0          | 0.24   |

As shown in Table 1 maximum of per capita of indoor sport spaces ( $1.78 \text{ m}^2$ ) belongs to Azad University of Anbar Abad and maximum of per capita of outdoor sport spaces ( $5.88 \text{ m}^2$ ) belongs to Azad University of Bardsir.

Table 2 shows the scores of universities with outdoor space based on the considered variables in the expert equipments in comparison to existent standards.

**Table 2:** The scores of universities based on expert equipments of outdoor space and its variables, according to existent standards.

| Variables<br>Name of<br>University | Area of activity | expert equipments | Total score |
|------------------------------------|------------------|-------------------|-------------|
| Azad University of Kahnooj         | 3.00             | 1.95              | 2.48        |
| Azad University of Shahre Babak    | 2.26             | 1.92              | 2.09        |
| Azad University of Jiroft          | 1.53             | 1.79              | 1.66        |
| Azad University of Bardsir         | 1.67             | 1.50              | 1.59        |
| Azad University of Kerman          | 0.83             | 2.07              | 1.45        |
| Azad University of Zarand          | 0.92             | 1.89              | 1.41        |

As shown in Table 1 maximum of score of area activity is 3 and belongs to Azad University of Kahnooj and maximum of score of expert equipments is 2.07 and belongs to Azad University of Kerman and maximum of score of total score is 2.48 and belongs to Azad University of Kahnooj.

Table 3 shows the score of 11 universities of Kerman province that have indoor sport spaces based on public equipments of indoor sport spaces and 3 Azad Universities of Shahre Babak, Mahan and Koohbanan that don't have indoor sport spaces and their score was zero and don't show in the table.

**Table 3:** score of universities based on public equipments of indoor spaces according to the existent standards

| public variables<br>name of universities | Total score | first aids | ventilation and temperature maker | Toilets | light and sound | the panels and symptoms | Status of Barriers | inputs and outputs | grandstand |
|------------------------------------------|-------------|------------|-----------------------------------|---------|-----------------|-------------------------|--------------------|--------------------|------------|
| 1-Azad university of Kerman              | 2.67        | 1.75       | 3.20                              | 2.40    | 3.00            | 2.50                    | 3.00               | 2.50               | 3.00       |
| 2-Azad university of Zarand              | 2.64        | 1.00       | 3.00                              | 2.60    | 2.71            | 1.75                    | 3.75               | 3.00               | 3.29       |
| 3-Azad university of Rafsanjan           | 2.38        | 1.50       | 3.00                              | 2.80    | 2.71            | 2.25                    | 3.50               | 2.00               | 1.29       |
| 4-Azad university of Baft                | 2.32        | 1.00       | 3.40                              | 3.20    | 3.14            | 0.00                    | 2.00               | 2.50               | 3.29       |
| 5-Azad university of Anar                | 2.08        | 2.75       | 2.60                              | 3.00    | 2.00            | 1.25                    | 3.00               | 2.00               | 0.00       |
| 6-Azad university of Bardsir             | 2.00        | 0.00       | 2.20                              | 1.00    | 3.43            | 0.75                    | 3.25               | 2.25               | 3.14       |
| 7-Azad university of Sirjan              | 1.85        | 0.50       | 3.00                              | 2.00    | 3.29            | 0.00                    | 3.25               | 2.75               | 0.00       |
| 8-Azad university of Jiroft              | 1.79        | 1.75       | 2.40                              | 2.60    | 2.29            | 0.00                    | 2.50               | 2.75               | 0.00       |
| 9-Azad university of Anbar Abad          | 1.53        | 0.00       | 2.60                              | 0.80    | 2.57            | 0.25                    | 3.25               | 2.75               | 0.00       |
| 10-Azad university of Kahnooj            | 1.37        | 0.00       | 2.60                              | 0.60    | 1.43            | 0.00                    | 3.00               | 2.50               | 0.86       |
| 11-Azad university of Bam                | 0.80        | 0.00       | 0.60                              | 1.00    | 1.29            | 0.50                    | 2.00               | 1.50               | 0.00       |

In table 3 are showed Azad Universities of Kerman province that have indoor sport spaces in each of public variables of indoor spaces, maximum score 3.29 of grandstand belongs to Azad Universities of Zarand and Baft, score 3 of inputs and outputs belongs to Azad University of Zarand and also, score 3.75 of status of barriers belongs to Azad University of Zarand, maximum score 2.50 in guide symptoms belongs to Azad University of Kerman, maximum score 3.43 of light and sound belongs to Azad University of Bardsir, maximum score 3.20 of toilets belongs to Azad University of Baft, maximum score 3.40 of ventilation and temperature maker belongs to Azad University of Baft, maximum score 2.75 of first aids belongs to Azad University of Anar and maximum score 2.68 all of the public equipments of indoor spaces belongs to Azad University of Kerman.

Table 4 shows score of Universities that have indoor spaces based on the considered variables in expert equipments in comparison with existent standards.

**Table 4:** Score of Universities based on expert equipments of indoor spaces and its variables according to existent standards.

| Variables<br>name of university | Total score | Expert equipments | area of activity |
|---------------------------------|-------------|-------------------|------------------|
| 1-Azad University of Zarand     | 3.07        | 3.34              | 2.79             |
| 1-Azad University of Rafsanjan  | 2.77        | 3.06              | 2.47             |
| 1-Azad University of Kahnooj    | 2.65        | 3.20              | 2.09             |
| 1-Azad University of Jiroft     | 2.61        | 2.67              | 2.54             |
| 1-Azad University of Kerman     | 2.60        | 2.74              | 2.46             |

|                                 |      |      |      |
|---------------------------------|------|------|------|
| 1-Azad University of Sirjan     | 2.51 | 2.64 | 2.38 |
| 1-Azad University of Bardsir    | 2.27 | 2.84 | 1.70 |
| 1-Azad University of Anar       | 2.24 | 2.83 | 1.64 |
| 1-Azad University of Baft       | 2.23 | 2.39 | 2.07 |
| 1-Azad University of Anbar Abad | 2.13 | 2.41 | 1.85 |
| 1-Azad University of Bam        | 2.07 | 2.46 | 1.68 |

In table4 maximum score 2.79 of area of activity, maximum score 3.34 of expert equipments and maximum score 3.07 of total score of expert equipments belongs to Azad University of Zarand. Student per capita of outdoor sport spaces in Iran is 2.76 m<sup>2</sup> and its international standard is 4.5 m<sup>2</sup> for each of student (Mirkazemi, 1388). In table 5 sign (+) indicates a desirable status and also calculated per capita is equal or more than standard per capita and sign (-) indicates that calculated per capita is lower than standard per capita. In Azad Universities of Kerman province, based on per capita of outdoor sport spaces according to calculated per capita for each of university-between the universities that had outdoor places- the first rank is given to Azad University of Bardsi as maximum rank and minimum rank (rank 6) is given to Azad University of Kahnooj.

**Table 5:** Rating of Azad Universities of Kerman province based on per capita of outdoor sport spaces and by comparison with student per capita of indoor sport spaces in Iran and its international standard

| Name of university            | Comparison with international standard of student per capita in Iran | Comparison with student per capita in Iran | Rank | Per capita |
|-------------------------------|----------------------------------------------------------------------|--------------------------------------------|------|------------|
| Azad University of Anbar Abad | -                                                                    | +                                          | 1    | 1.78       |
| Azad University of Zarand     | -                                                                    | +                                          | 2    | 1.59       |
| Azad University of Bardsir    | -                                                                    | -                                          | 3    | 1.18       |
| Azad University of Jiroft     | -                                                                    | -                                          | 4    | 0.41       |
| Azad University of Kahnooj    | -                                                                    | -                                          | 5    | 0.39       |
| Azad University of Baft       | -                                                                    | -                                          | 6    | 0.37       |
| Azad University of Anar       | -                                                                    | -                                          | 7    | 0.32       |
| Azad University of Bam        | -                                                                    | -                                          | 8    | 0.26       |
| Azad University of Rafsanjan  | -                                                                    | -                                          | 9    | 0.24       |
| Azad University of Kerman     | -                                                                    | -                                          | 10   | 0.21       |
| Azad University of Sirjan     | -                                                                    | -                                          | 11   | 0.19       |

Student per capita of indoor sport spaces in Iran is 1.2 m<sup>2</sup> and its international standard is 2.5 for each of student (Petrado, 2002). Sign (+) indicates a desirable status and also calculated per capita is equal or more than standard per capita and sign (-) indicates that calculated per capita is lower than standard per capita. In Azad Universities of Kerman province, based on per capita of indoor sport spaces according to calculated per capita for each of university-between the universities that had indoor places- the first rank is given to Azad University of Anbar Abad as maximum rank and minimum rank (rank 11) is given to Azad University of Sirjan.

#### Test research hypotheses

The first hypothesis: The status of per capita of the outdoor sports space score has difference with criterion score.

As table 6 shows ( $t=-0.59$  and  $p=0.575$ ), the zero hypothesis is confirmed, this means that there is no significant difference between status of per capita of outdoor sport spaces with criterion score.

**Table 6:** status of per capita of outdoor spaces of Azad universities of Kerman province according to the criterion score

| Index number of test=2             |                   |    |        |                 |                    |       |
|------------------------------------|-------------------|----|--------|-----------------|--------------------|-------|
| Indexes                            | Significant level | df | t      | Mean difference | Standard deviation | Mean  |
| per capita of outdoor sport spaces | 0.575             | 5  | -0.599 | -0.533          | 2.180              | 1.466 |

The second hypothesis: The status of per capita of the indoor sports space score has difference with criterion score.

As table (13-4) shows ( $t=-7.703$  and  $p=0.001$ ), the zero hypothesis isn't confirmed, this means that there is significant difference between status of per capita of indoor sport spaces with criterion score. The third

hypothesis: The status of public equipments of the outdoor sports space score has difference with criterion score. As information show ( $t=-5.799$  and  $p=0.002$ ), the zero hypothesis isn't confirmed, this means that there is significant difference between status of public equipments of outdoor sport spaces with criterion score. The fourth hypothesis: The status of public equipments of the indoor sports space score has no difference with criterion score.

As table (15-4) shows ( $t=-0.312$  and  $p=0.761$ ), the zero hypothesis is confirmed, this means that there is no significant difference between status of public equipments of indoor sport spaces with criterion score. The fifth hypothesis: The status of expert equipments of the outdoor sports space score has difference with criterion score. As table (16-4) shows ( $t=-1.298$  and  $p=0.251$ ), the zero hypothesis is confirmed, this means that there is no significant difference between status of expert equipments of outdoor sport spaces with criterion score. The sixth hypothesis: The status of expert equipments of the indoor sports space score has difference with criterion score. As table (17-4) shows ( $t=5.049$  and  $p=0.001$ ), the zero hypothesis isn't confirmed, this means that there is significant difference between status of expert equipments of indoor sport spaces with criterion score. One of the examined factors in this research was the study of the status of student per capita that according to the results, there is no significant difference between per capita of outdoor sport spaces with criteria score but there is a significant difference between per capita of indoor sport spaces with criteria score (Hosseini, 2010). paid to ranking and comparison of sport facilities of Azad Universities of Kerman with existent standards. Her findings showed that in the field of public equipments of outdoor sport spaces in comparison with standards, more than 64 percent of universities were under poor or very poor conditions. [5] Done a study that its title was "Space study of effects of sport places and urban area of Yazd" and also they done a comparison between people opinions and government officials in various sport places in amount of these effects. The results of this study showed that from the point of view of the experts and the sports officials, the social effects of sport places were significant on the urban area and from the point of view of people the social effects of sport places were not significant on the urban area and also there was a significant difference between people opinions and government officials of the social effects of various placed on the city and the government officials reported these effects more than the people. The results showed that on average the status of the safety of the equipments, instruments, limits and lines with 94.29% have the better conditions than the other factors, platforms, cover and grandstand with 73.34%, the safety of the equipments, installations and constructions with 56.58% and health components with 43.75% were in the next classes. These results don't match with the results of this study because there was a difference between the study of the status of the safety and health of the sport places. The findings of this study showed that 34.1% of Azad Universities of Kerman province have the best status in relation to all of the expert equipments of indoor sport places and comparison with standards and 28.2 % have good status, 10 % have a medium status, 6.9% have a poor status and 20.8 % have a very poor status. Also 14.8% of Azad Universities of Kerman province have the best status in relation to all of the expert equipments of outdoor sport places and comparison with standards and 27.8 % have good status, 11.1% have a medium status, 11.1% have a poor status and 35.2 % have a very poor status. Also 8.7% of Azad Universities of Kerman province have the best status in relation to all of the public equipments of outdoor sport places and comparison with standards and 12.3 % have good status, 12.3% have a medium status, 24.6% have a poor status and 42.0% have a very poor status. 22.1% of Azad Universities of Kerman province have the best status in relation to all of the public equipments of indoor sport places and comparison with standards and 20.3% have good status, 15.2% have a medium status, 14.9% have a poor status and 27.5% have a very poor status. According to the results of this study in relation to public equipments of the outdoor sport places

A) Azad universities of Kerman province all have a poor status in fields of the construction and place of the construction expect Azad University of Kerman that has a good status. As a suggestion, Officials and Managers of sport places of universities should solve this problem.

B) Azad universities of Kerman province all have a poor and very poor score in inputs and outputs expect Azad University of Zarand that has a medium score. As a suggestion, Officials should solve this problem.

C) Azad universities of Kerman province all have a poor and very poor score in fields of toilets, Showers and changing rooms expect Azad University of Bardsir that has a medium score. As a suggestion, Officials should consider to solve these problems during the construction specially.

D) Azad universities of Kerman province all have a poor and very poor score in fields of the first aids. As a suggestion, Officials should do the necessary actions to equip sport places of universities and the necessary equipments are the first aids room, Ambulances and medical assistant.

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