

## EVALUATING THE BIOMOTOR ABILITIES AND SKILL ABILITIES OF FOURTH-YEAR FOOTBALL STUDENTS

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### Abstract

The study was conducted on (385) students representing the fourth academic stage of morning and evening studies at the college of physical education and sports sciences / al-mustansiriya university for the academic year (2023-2024) with the aim of setting evaluation standards for the bio-motor abilities and skill abilities of students in football. To achieve this goal, the researchers took the necessary measures regarding the validity and integrity of the tests concerned with the aptitudes and abilities involved in the research. Their validity and the scientific components on which they were built were confirmed. Thus, setting standard formulas according to which students are evaluated physically, motorically, and skillfully. The researchers came up with some of its results and conclusions, including: devising a scientific formula to evaluate the student's physical, motor, and skill condition. On the basis of which he evaluates the subject of football

**Keywords:** (biomotor capabilities, abilities, standard, model, profile)

### Introduction

One of the axioms of the current era is scientific and technical progress, which includes all areas of life in all its branches. Perhaps the educational - sports - field is one of them. The last verses like this came out of nowhere, but rather came as a result of the use of many objective tools in the means of measurement and evaluation. Especially tests related to bio-motor abilities, mental abilities, and others. ((tests and measurement are important tools aimed at consolidating programmed work, and they are also important in evaluating various aspects of the general life of the individual - the human being - and aspects related to his activity that he practices in particular)). (ali, a., suleiman, h., & jabbar, 2019) and (mondil&shukr, 2023) since the reality of study in the faculties of physical education and sports sciences requires that students belonging to them during the four years of study be studied in theoretical references for some sciences. Specialized educational and sports scientific studies, (sami, f., & mohameed, 2016), as well as the applied aspects of many sports, (raed, h., & laith, 2022), including the game of football. Therefore, here it is required to conduct periodic examinations and physical, motor, mental, skill, and other tests (qasimhilal, m., & adnanamin, 2021) for the students of this educational institution,

in order to determine their true levels and the extent of their development, or to estimate their strengths and weaknesses in any of these abilities or capabilities. Capacity . (hussein, 2019) this can only be done by using the evaluation process. The truth is that the process of evaluating, developing, and performing students in football falls on the responsibility of whoever is in charge of teaching students in this college, (mohameed, o., &mohameed, 2017), so it is also up to them to evaluate biomotor capabilities and skill capabilities of students by building the grades and standard levels concerned with them. (sabhan, h., &thamer, 2018) thus, the level the student achieves in these abilities or capabilities will be the deciding factor in passing or not passing this important academic subject in the life of a student in the college of physical education and sports sciences. (yaseen&alrawi, 2021) )) from all of this, the importance of this study will be evident in the attempt to establish correct scientific foundations and standards for evaluating the students of the college of physical education and sports sciences - the fourth stage, by submitting them to well-known and precise tests.

### **Research Problem**

The problem of this study does not stem from the fact that the prevailing evaluation methods in most colleges of physical education and sports sciences are carried out through the abstract view of the football academic subject teacher, as to the skillful performance by the student of some of the basic skills of this game, without paying attention to the skills he possesses biomotor abilities or some other skill abilities, which must be measured among all students and then evaluated objectively in light of the standards emanating from their own abilities and not others.

### **Research Objectives: The Research Aims To: Identify**

- Students' results in testing bio-motor abilities and skill abilities related to football.
- The evaluation model in the bio-motor capabilities and skill abilities of football players.
- The standard level of any of the tested students in all the biomotor abilities and skill abilities investigated in football.

### **Research Areas**

**The Human Field: It Is Determined By Fourth-Year Students In The College Of Physical Education And Science**

**Sports At Al-Mustansiriya University.**

**Time Range:- 10/1/2023 Until 12/31/2023**

Spatial area: football arenas and fields at al-mustansiriya university for the academic year (2023/2024)research methodology: we may not be bringing anything new if we say that the methods used in conducting research also differ according to the nature of the problem to be addressed, in order to achieve those goals. Therefore, choosing the appropriate method to solve the research problem is one of the important steps on which the success of the research depends.

In view of this, the researchers chose the descriptive method in its survey and standard method, as it suits the nature of the problem to be solved. (altoohafi, sajjad, &abdullahfalah, 2023)the research community: the research community was determined by the students of the fourth stage in the college of physical education and sports sciences at al-mustansiriya university for the academic year (2023/2024), who numbered (392) students, and (7) students were accommodated,

due to the absence of some of them, those who were malingerers, and those who did not want to take the test. Thus, the total number of actual testers became (385) students, who represent the sample of technicians used in setting the standards.

### Tools and Devices Used In Research

- Research tools: they consisted of all data methods, such as tests, questionnaires, and observation.
- Tools and devices used
- Soccer balls (number)
- Nizamifootball stadium
- Legal objectives
- Levels and cones

### Field research procedures

(determine the biomotor capabilities and abilities of student football players)

In order to determine the bio-motor capabilities and skill capabilities of student football players, they prepared a questionnaire to poll the opinions of experts and specialists in sports measurement, evaluation and training, especially those who are interested in football. Their number reached (12) experts and specialists. After collecting the questionnaires, transcribing their data, and then processing them statistically by choosing (k2) for good matching, it was found that (5) skill tests, (abdulzahraa, s. ..., &farhan, 2022) and (6) bio-motor tests were accepted out of (12) tests. This is to achieve calculated measurements higher than the value of (ka2) of (3.84) at a bayonet level of (1) and a significance level of (0.05) for good deeds only. Table (1) shows its details

Table (1) shows the number of people who approved tests for bio-motor abilities and football skill abilities

So that the researchers can

the decision	Calculated value 2Ca	Validity				the test	Adjective
		%	Does not fit	%	Repair		
Nominate	12	%zero	zero	%100	12	Scoring	Skills
Nominate	8,33	%8,3	1	%91.7	11	Rolling	
Nominate	8,33	%8,3	1	%91.7	11	Putting out	
Nominate	12	%zero	zero	%100	12	the control	
Nominate	5,33	%16,7	2	%83.3	10	Handling	
Nominate	8,33	%8,3	1	%91.7	11	m30Run	Biokinetic capabilities
Nominate	5,33	%16,7	2	%83.3	10	Leaping forward	
Nominate	12	%zero	zero	%100	12	Shuttle jogging	
Nominate	8,33	%8,3	1	%91.7	11	Move in circles	

Not filtered	3	%25	3	%75	9	for )Paro (agility	
Nominate	12	%zero	zero	%100	12	Bend the torso -forward down	
Nominate	5,33	%16,7	2	%83.3	10	Partridge with fast force	

From the table above, we can deduce the candidate bio-motor abilities, which are (transitional speed, leg muscle strength, agility, balance, flexibility, strength characterized by speed), and that the skill abilities are determined by (scoring, rolling, putting down, control, handling)

### **Ability Experience**

So that researchers can achieve valid and reliable results. They have to follow contexts

The procedure is correct and sound. Among these contexts is conducting a reconnaissance experiment on a sample drawn from the research community at random, amounting to (40) students. The aim of this procedure was:

- Applying the tests nominated for application in their initial form, in order to identify the accompanying obstacles and potential difficulties that may arise from implementation in the main experiment.
- Ensure that students are able to understand and comprehend the methods of implementing the tests nominated for application, as well as their suitability for them in terms of difficulty and scientific components.
- Ensure the validity of the tests nominated for implementation, as well as the devices and tools used.
- The number of tests that can be administered during one test day, indicating the methods of recording their results in order to save time and effort.
- Identifying, preparing and training the auxiliary work team to implement and produce the nominated test

### **For Application**

To fully ensure the safety and validity of these indicators. They became the recommended tests when measuring all the biomotor abilities and skill abilities possessed by members of the research sample in football ready for final application.

### **Basic experience**

In order to achieve the aim and objective of the research, the researchers conducted the main experiment on members of the research sample of fourth-year students in the college of physical education and sports sciences. They numbered (385) students during a period exceeding (5) weeks, starting on

2023/11/ ad. Tests valid for implementation were applied using scientific and systematic methods and methods, with the association of members of the auxiliary work team, and on the playgrounds of al-mustansiriyauniversity. Once the results were collected, they were transcribed into specific tables. However, these results remain a meaningful sample unless they are treated statistically, in order to assist in the interpretation process. Table (2) shows the observation of these results.

Table (2) it shows the statistical estimates of the research variables achieved by the sample and their distributions

The nature of the sample distribution	Flatness	nest	to	A	Sh	Estimates of statistical variables
equinoctial	2,97	0.029	0,91	0,56	4,81	m30Run
equinoctial	0,23	0,020	0,52	0,401	1,91	Leaping forward
equinoctial	0,400-	0,39	0,37	0,78	8,67	Shuttle jogging
equinoctial	0.164-	0,040	0.402-	0.79	7,88	Move in circles
equinoctial	0.988	0.089	0.174	1,76	7,80	-Bend the torso forward down
equinoctial	1,66	0.056	0.86-	1,11	10,99	Partridge with fast force
equinoctial	1,18-	0.092	0.415	1,81	2,00	Scoring
equinoctial	2,36	0.057	0,99	1,12	8,64	Rolling
equinoctial	0,46-	0.035	0.85-	0,68	1,45	Putting out
equinoctial	3-	0,62	0,55	12,08	42,17	the control
equinoctial	0,40-	0.024	0.78-	0,47	1,68	Handling

(\*)the assistant work team consists of messrs

### **The statistical methods and methods used**

So that researchers can interpret the students' test results, which represent their biomotor abilities and football skill abilities. It must be analyzed and processed using a set of statistical means and methods. Such as:-

- Arithmetic mean
- Standard deviation
- Torsion coefficient
- Standard error
- Coefficient of flatness
- Ca2 test

### **Research Results**

After the results that students achieved in all tests related to bio-motor abilities and skill abilities related to football became available to researchers, (nazar, t., &aladdin, 2018) and

(ahmedamerabulhussein, 2020), it was necessary to put them in place and only describe them. In interpreting these results and the fact, there may be difficulty in this matter, especially when dealing with the raw scores of any of the tests included in the research. (mondher, h. A., &khalaf, 2023) therefore, in order for researchers to be able to know what the achievement is and its nature, and to evaluate the condition of the student testers, (kadhim, m. J., shihab, g. M., &zaqair, 2021), a sound scientific approach must be followed. In this way, appropriate statistical methods are used to analyze such results and discuss them after presenting them according to the type of ability or ability investigated. In order to complete the process of applying scientific conditions to evaluate the sample members' achievement in each of the variables investigated, the following measures were taken:

- A. Establishing standards for the tests conducted on students and for all variables investigated.
- B. Determine the standard levels achieved by students in the tests used.
- C. Building the general evaluative model for all variables investigated.

### **Setting standards and determining standard levels**

It is a matter of course that we obtain raw grades for any of the tests that the tested students take. But these grades cannot help us in the process of interpretation and clarifying the meaning of each grade achieved. In order to evaluate the student's condition regarding any of the tests for which he was assigned, we must resort to using a method to convert the obtained grades into meaningful and significant grades (kzar&kadhim, 2020), which will help us achieve the requirements of the evaluation process. To know the standard score for any laboratory student (kadhim, 2012), we apply the following equation: (3)

$$x \text{ (raw score)} - u \text{ (arithmetic mean(} \\ r) \text{ standard score} = ($$

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5 + 1 ×  $\frac{x - u}{r}$  | on the distribution of these scores moderately. To achieve the levels researchers needed, they were able to indicate (6) levels, which are, respectively:

The sixth level and grade (3 or less), the fifth level and grade (4), the fourth level and grade (5), the third level and grade (6), the second level and grade (7), and the first level and grade (8) and to translate what we mentioned above. The test results directorates were divided into (6) levels to translate the results extracted from the tests concerned with the investigated variables and convert them into standard values 0 (objective) to evaluate students' performance. Table (3) shows this.

The minimum and the maximum	Score ranges and standard levels						measuring unit	Researched variables
	the first 8	the second 7	the third 6	the fourth 5	4V	3Sixth		
6.6 – 4.2	6,6	6,2	5,8	5,4		4,6	The second and its parts	m30Run
– 1,19		2,69	2,39	2,09	1,79	1,49	meter and The its parts	Leaping forward
10.37 – 7.38	10,38	9,88	9,38	8,88	8,38	7,88	The second and its parts	Shuttle jogging
9.30 - 6.20	9,32	8,80	8,28	7,76	7,24	6,72	The second and its parts	Move in circles
		10,66	9,33		6,66	5,33	centimeter	Bend the torso down -forward
12.80 – 7.90	12,82		11,18	10,36	9,54	8,72	The second and its parts	Partridge with fast force
		4,15	3,32	2,49	1,66	0,83	Class	Scoring
10.33 – 5.08	10,26	9,38	8,50	7,62	6,74	5,96	Class	Rolling
		1,66	1,33		0,66	0,33	Class	Putting out
67 – 25	67	60		46	39	32	Class	the control
		1,84	1,67	1,50	1,34	1,17	Class	Handling

### General Calendar Model

What is presented in table (3) is the first step in the evaluation process, as it is the basic reference for setting the appropriate (standard) grades for the levels that the student obtains in any of the tests he takes. (jawad, m., &jabbarshinen, 2016) for the purpose of evaluating him and giving him the indicators that he has achieved according to the levels referred to, it is necessary to resort to obtaining the model method (personal profile) to indicate such levels as any of the sample members. This method has many advantages that allow researchers and coaches to be able to know the actual reality of what individuals (students, players) give, as it gives a clear graphical form for all measured variables, collectively and in one form, which facilitates the current evaluation process. (3)

### And The Truth

The idea of developing a model for every game or sporting event has clearly demonstrated its increasing positive value in selecting...talented people and in setting training requirements. (4) from this, the researchers can explain how to use this method in the process of evaluating the bio-motor abilities and football skill abilities enjoyed by fourth-year university students at the

college of physical education and sports sciences / al-mustansiriya university. We will take a form of the model.

achieved levels						Standard score achieved	Abilities and capabilities
the first	the second	the third	the fourth	Fifth	VI		
×						8	m30Run
	×					7	Leaping forward
		×				6	Shuttle jogging
			×			5	Move in circles
	×					7	-Bend the torso forward down
		×				6	Partridge with fast force
	×					7	Scoring
						4	Rolling
					×	3	Putting out
					×	2	the control
			×			5	Handling

Figure (1) it explains the evaluation of student (s)'s condition according to the standard levels he has achieved in each aptitude and ability. What we notice from figure (1) is that student (s) has achieved levels in which the standard values are shown for each pyrokinetic ability and skill ability to which he was subjected in the form of a test. (ahmedfadhilfarhanmohammedjawadkadhim, 2016) which is considered upon its performance and completion. This was done through the content of table (3) indicating the levels achieved. Analyzing this student's achievement, we find that he is distinguished by the following:

1. He has a high speed compared to his peers. When tested, it achieved the standard level (very good), which represents the first level.
2. His superiority in some of the pyrokinetic abilities and skill abilities. Especially in his ability (jumping, flexibility) and ability (scoring), as he achieved what is good (the second level)
3. As for his abilities (agility and quick strength), he achieved an average level (third)
4. He has a decline in the levels of skills and balance, (moayed, a., moayed, g., & jawad, 2019)(fadel&kadem, 2021), especially the skills (rolling, suppression, control), as he only



achieved weak and very weak levels in them. . Which requires the football teacher to pay attention to the process of improving and developing these skills of the student and raising their levels in order to achieve success in this subject in the upcoming exams.

Thus, the researchers have achieved the research objectives required to be achieved to solve the research problem. Concerned with adopting an objective evaluation formula for football students.

## **Conclusions And Recommendations**

### **Conclusions**

1. The results resulted in the nomination of bio-motor abilities (transitional speed, leg muscle strength, agility, balance, flexibility, strength characterized by speed) as well as skill abilities. (scoring, rolling, suppression, control, handling), even if they differ in setting up the nomination.
2. The research sample of students was characterized by a moderate prevalence in all tests related to bio-motor abilities and skill abilities in football, which it was subjected to.
3. A standard formula was developed to evaluate the results of students in the tests that were achieved through the use of the model method (personal profile) to evaluate the biomotor abilities and skill abilities of students in football.
4. It has become possible to evaluate the student's football condition in light of the standard levels he achieves when testing his bio-motor abilities and skill abilities.

### **Recommendations**

1. Adopting the tests extracted from this study in the process of evaluating students at the senior level in football.
2. Use the evaluation form (personal profile) to diagnose any student's condition in football.
3. Use the standards and levels concerned with the grades of student testers during any of the periodic or final tests when conducting the biomotor or skill evaluation process in football.
4. The research results can be used to evaluate the success or failure grades in the football subject for any of the tested students.

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