VISIÓN ELECTRÓNICA

A Context Vision

Sports organizations and quality self-diagnostic tool

Organizaciones deportivas y herramienta de autodiagnóstico en calidad

Rafael Bautista-Cano ¹, Carlos Alberto Flórez-Moreno ²

Cite this article as: R. Bautista-Cano and C. A. Flórez-Moreno, "Sports organizations and quality self-diagnostic tool", *Visión electrónica, algo más que un estado sólido*, vol. 13, no. 2, july-december 2019.

Abstract: The competitive map in sports organizations are few studies conducted. This paper attempts to clarify, through the implementation of a technological tool of self structured based on universal principles of quality management introduced in ISO 9000: 2000, the competitiveness of this type of sports institutions, modeled on those who have specialized in futsal facilities synthetic pitches, which are not only sports boom, but social cultural dynamics of the current Bogota society. Thus, with reference to the product futsal, the proposal to observe economic competitiveness in the areas of strategic planning, production and operations, accounting and finance, quality assurance, environmental management, marketing, human resource starts and systems information, synthetic sports facilities that exist in the city and what

_

¹ BSc. In Physical Education, Universidad Pedagógica Nacional, Colombia. Current position: Universidad Distrital Francisco José de Caldas, Facultad de Medio Ambiente y Recursos Naturales, Proyecto Curricular de Administración Deportiva. E-mail: rabacano@yahoo.com ORCID: https://orcid.org/0000-0002-4690-1803

² BSc. In Physical Education, Universidad Pedagógica Nacional, Colombia. Current position: Universidad Distrital Francisco José de Caldas, Facultad de Medio Ambiente y Recursos Naturales, Proyecto Curricular de Administración Deportiva. E-mail: caflorez@yahoo.com ORCID: https://orcid.org/0000-0002-6695-5665

Fecha de recepción: 11 de mayo de 2019

Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

are the contributions that these likewise have are to improve productivity and be at the forefront

of sports organizations sector.

Keywords: Administrative management, ASTEC tool technology, Competitive map, Futsal /

synthetic courts, Sports organizations.

Resumen: El mapa competitivo en las organizaciones deportivas son estudios pocos

realizados. Este documento intenta esclarecer, a través de la implementación de una

herramienta tecnológica de autodiagnóstico estructurada con base en principios universales

de la gestión de calidad, presentados en la norma ISO 9000:2000, la competitividad de este

tipo de instituciones deportivas, tomando como modelo aquellas que se han especializado en

el Futbol Sala con instalaciones de canchas sintéticas, las cuales son un auge no solo

deportivo, sino social de la dinámica cultural de la actual sociedad bogotana.

Es así que tomando como referencia el producto Futbol Sala, se inicia la propuesta de observar

la competitividad económica en las áreas de planeamiento estratégico, producción y

operaciones, contabilidad y finanzas, aseguramiento de calidad, gestión ambiental,

comercialización, recurso humano, y sistemas de información, de los espacios deportivos

sintéticos que existen en la ciudad y cuáles son los aportes que estos así mismo tienen, para

mejorar su productividad y estar a la vanguardia del sector de las organizaciones deportivas.

Palabras clave: Gestión administrativa, Herramienta tecnológica ASTEC, Mapa competitivo,

Fútbol sala / canchas sintéticas, Organizaciones deportivas.



Fecha de recepción: 11 de mayo de 2019

Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

1. Introduction

For studies in sports organizations has been considered important for purposes of certainty and

reliability relying on a technological tool generated more ambitious studies on this subject and

has been validated by the International Labour Organization - O.I.T.

If we know that productivity "allows the company to increase the value added by optimizing the

combination of available resources. Its growth contributes to the prosperity of nations, it makes

companies more competitive in the global market, thus contributing to the improvement quality

of life" [1], we had the task of identifying organizations synthetic futsal courts as business can

be a much momentum.

Identifying organizations in their administrative processes such as strategic planning,

production, operations, accounting, finance, quality assurance, environmental management,

information systems, marketing and human factor, determining the competitive map and how it

can be your market success. Thus sport and recreation does not escape from the modern

trends of expansion and competitiveness of their organizations where there is accelerated to

achieve globality be in service technology in their products.

When we stop to inquire about the level of competitiveness of a sports organization from the

point of structural, organizational, academic, social, infrastructure and / or scientific knowledge;

we learn that little is known, but there is a detailed study of its components, which help to

understand the dynamics and development of a new sport that strongly in the socio-economic

and commercial context of the city.

Fecha de recepción: 11 de mayo de 2019

Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

From the administrative field they have been developed that allow few research papers [2]

present alternative solutions for the development of sport especially in the administration of

sports facilities that are competitive, approached from the efficiency and effectiveness of their

competitiveness.

The elements that constitute the research problem are the different parts that this presented

the phenomenon or disgruntled and which they are determined. In this case we refer punctually:

Strategic Planning, Production and Operations, Accounting and Finance, Quality Assurance,

Environmental Management, Marketing, Human Resource and Information Systems.

2. Contextual Elements.

In the process of training that is acquired it is essential to address issues related to

administrative processes so that from an objective look is important to research issues to

identify possible problems in sports management, in this embodiment as is futsal in Bogota, we

wanted to contribute to the administrative strengthening competitiveness sport specifically

presented in the fields of synthetic grass.

Birth of a sport, the case of futsal in Bogota [3], should be subject to a comprehensive and clear

diagnosis, which can accurately determine the current status of its constituent elements, in

order to start with evidence programs or development proposals, allowing an assertively impact

on social need and commercial development as an organization.

Events and championships taking place, are given under poor technical standards (who?

responsible managers) in most cases, only we can have knowledge of quality in the processes

Fecha de recepción: 11 de mayo de 2019

Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

performed by the compensation funds, universities and any other body that sport. What we can

do to develop a sport like futsal is investigating its social [4] impact and inter alia its leader part,

in case the competitive map of each organization.

Whereas a sports institution functions as a system through which the parties interact as a whole

integrated organization, sports facilities minimally synthetic courts must have an administrative

order to achieve growth and project them as a company.

From the field of research, we can determine whether sporting organizations operating in the

city of Bogota, really are competitive or not, that is the result that we show in this study.

Counting and implement a certified technological tool to diagnose and determine the level of

competitiveness of enterprises futsal "synthetic courts," where you can measure the map

competitive (strategic planning, production, operations, accounting, finance, quality assurance

environmental management, information systems, marketing and human factor), that works for

every organization and themselves look inward as they are facing the market is the objective

of the study.

It is for this that the following research question is asked, What is the competitive map of sports

organizations Futsal "synthetic courts" in the city of Bogota, in terms of administration, position

and competitive level, compared to economic development of a new line of business, applying

ASTEC, as self-diagnostic tool?; and raised among others, research targets as identified

through the self-diagnostic tool ASTEC - technical assistance for quality and competitiveness,

the competitive map of organizations / or sports companies Futsal "synthetic courts", as

Fecha de recepción: 11 de mayo de 2019

Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

administrative management, and competitive position, compared to the economic development

of a new line of business in Bogota.

In addition, targets specific implementation as consulting preliminary references geographic

location (neighborhoods, social stratum) on the map of the city of Bogota, which show precise

data on the amount of the scenarios willing to practice futsal proposed synthetic ground.

Recognizing the competitive map elements present in the practice of the different approaches

applied to sports organizations synthetic futsal court. As also to evaluate and competitive areas

of sports organizations futsal likewise to establish the competitive level of the companies futsal

scenarios synthetic courts Bogota.

3. Development of the Topic

Professor Garelli, Director of Project IMD World Competitiveness refers to the concept of

creating value to clarify where this originates. Garelli says that in any industrialized society,

value creation begins with individuals (artisans, farmers, lawyers, etc.) and in companies where

goods and services are produced. Then the state itself, not directly involved in this process,

although it may participate with capital in many of these companies. However, the state is a

key factor in determining the level and quality of life of a nation because it establishes the rules

that define the framework for the creation of wealth actor. Consequently, says Garelli, wealth

creation can be defined as "the engine that helps improve the standard of living".

A Mexican study argues that "The Competitiveness is individually generated (the

microeconomic, industrial or enterprise level) and not based on aggregate or macroeconomic



Preparación de Artículos revista VISIÓN ELECTRÓNICA: algo más que un estado sólido

Fecha de envío: 29 de abril de 2019

Fecha de recepción: 11 de mayo de 2019 Fecha de aceptación: 18 de mayo de 2019

A Context Vision

levels, as generally tend to think". According to the above, the competitive drive is the company

and not the state or the nation [5]. Likewise, microeconomics texts show that competition tends

to reduce corporate profits up, even to zero. The reason given to us microeconomics is that

when a business is very profitable, the desire to make money are so attractive that other

entrepreneurs will want to compete in this market to enjoy your winnings [6].

Moreover, and taking into account the proposed background, is reviewed in five years of soccer

in Colombia, there have been seven seminars update, National character and within these three

international, where there were presented quantitative data with respect to the requirements, it

has only been released a research study that was the case of the Argentine professor Germán

Andrin [7].

In 2006, there was published in the city of Medellin in Antioquia University, the study of

biomechanics aspect of the Kick in futsal [8], apart from these two studies, which have already

been published, and which is carrying out the group high Achievements of the National School

of Sport in "Features futsal in Colombia" regarding research topics, it has not been more

developed scientific processes and less identification of administrative approaches in

managements practices futsal sports centers any kind, or on the level of competitiveness of

these enterprises at the national and local levels. Le it is unprecedented, and therefore useful,

necessary and innovative in the research, academic and administrative development of sport.

Due to the efforts that the Colombian Football Federation has given the Futsal, to develop it,

comes the commercial initiative to design and build sports facilities for companies wishing that

this modality is positioned in sport is so begins a development in scenario building for the sport,

Fecha de recepción: 11 de mayo de 2019

Fecha de aceptación: 11 de mayo de 2019 Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

with regulations giving the international body FIFA for the use of artificial synthetic turf fields

construction starts and born organizations that administer these sports facilities. And so

breakneck race begins to position itself in the middle doing activities in their areas seeking a

better alternative service.

4. Methodological Framework

The research by the information handled is quantitative descriptive and transversal character,

where systematically and numerically define the sporting venues of synthetic pitch, its

management, administrative practices, level and competitive position of sports organizations,

identifying the competitive map for the development of futsal.

The research is empirical - analytical, where the competitive level organizations synthetic courts

futsal in Bogota, the population of executives, managers, committees and / or charge, what will

be studied based on analysis detailing the causes and possible opportunities for improvement.

According to the object of study and the degree of depth it is an applied and exploratory

research, since it only covers the administrative population, practices and synthetic futsal

courts; with everything inherent in this in the city, where there had been studies above, however

the investigation was organized according to the management and control of variables of

experimental and sectional character as it was intended to study the behavior of these variables

in the environment and how they interrelate in a given time.

The units of analysis are determined by the Competitive Management, where management

processes, competitive position, which distinguishes the current state against the market

VISIÓN ELECTRÓNICA

A Context Vision

requirements and the competitive level, where the horizon qualifying performance is determined

is identified in the socioeconomic environment.

Here are the fundamental elements relating to the development of related research, Table 1:

Table 1. Key elements for the development and analysis of research

Variables	Competitive Map
Universe	Futsal as a sport
Population Size	Futsal existing fields in Bogotá
Sample	Data of sports organizations synthetic futsal field, conducting specific
Selection	events and sports activities will be taken
Collection Site	Sports venues where there Futsal synthetic courts
Collection	Tables collection and / or application software as a tool, competitive map,
Instruments	position and competitive level of the organization for administrators.

Source: own.

With regard to methodological procedure, it determined the Preliminary Phase, which contains:

- Recognition, training, development and / or adaptation of the instrument.
- Elaboration of List of Control.

Followed by phase and data collection procedure, where consultations, visits and interviews information about the location of sites where functions are held companies futsal synthetic pitch city, where:

• To be determined with the Chamber of Commerce data sports venues in the city, the site where they are located.



Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

• Define synthetic pitches sites to be visited by stage, called by telephone and should be

arranged for a first approach, which will investigate the probability, relevance, permits

and authorizations in terms of time and availability for application software.

Defined strategically sports organizations, we will approach the directors of each sporting

stage to officially make the announcement.

• making videos and / or pictures for file record equipment, workgroup and scenarios futsal

will be made, for it will use a video camera (format miniDVD and / or v8 format) and / or

digital camera and tracking table to take direct data

• Meeting room in the university system for the implementation of the instrument, with

administrators or managers of sports centers to investigate and define on administrative

practices, characteristics and general data.

Application of instrument (direct survey): As a final alternative should not find the

possibility of bringing together delegates is a space, gathering information directly be

solved in an interview administrator.

Later stage is information processing, where it articulates:

Review: Taking samples, all information will be reviewed to complement the missing

elements and validate the amount of information collected.

• Tabulations: We will use the qualifier Competitiveness "we help systematize information

for later analysis software.

Preparación de Artículos revista VISIÓN ELECTRÓNICA: algo más que un estado sólido Fecha de envío: 29 de abril de 2019 Fecha de recepción: 11 de mayo de 2019

Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

• Systematization of information: Information that will offer the software on radar graphs,

charts and summary tables for analysis.

Elaboration of results and analysis of information, where it is: Finally, a new phase called

projects:

• First the overall results will be analyzed in the table map competitiveness of each of the

organizations surveyed.

• Second the results will be classified by stage and variable indicators of each are

analyzed.

• Third, the results of each variable, for each indicator correlated with each scenario.

5. Results

• The study was consolidated in a sample of 45% of organizations, selecting the highest

percentage of the fields that are unique and have a private or special handling.

Leaving aside the particular entities, increasing the level of competitiveness was evident,

from 85% to 88% efficiency, that in the case of the amount of diagnostic companies.

We found that the competitive map of sports organizations futsal in the city of Bogotá,

he presented a pretty good performance in general terms, where important results are

referenced in areas such as management accounting and finance these institutions and

consistent fortunately with the generalized concept of context and that is very good

business are synthetic courts, say, which fortunately had a hypothesis that is

corroborated and that the same study serves to formally establish and why not determine

Fecha de recepción: 11 de mayo de 2019 Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

which institutions Futsal in synthetic pitch is a great business plan and investment in the

midst of this difficult economic situation.

• Studying the 16 of the 43 companies that currently exist futsal in Bogota, which visited

23 wherein 7 are not paid any collaboration.

Entering the analysis of organizations (16), which corresponds to 53% of the population

(which we consider a representative sample) considering that the particular

organizations are a total of 23 and which surveyed 16 (65%), and which they lent their

great collaboration to the elaboration of this study.

It can be considered that: the competitive map of sports organizations synthetic futsal

court of the city they score 85% valuation depending on the software used qualifier

competitiveness of sports organizations. the area that represents better grade with a

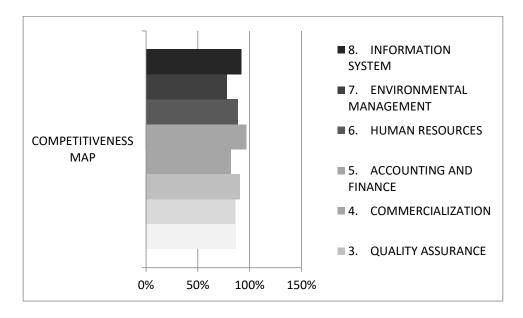
rating higher than 90% was accounting and finance, followed in a second row of three

(3) areas as human resources, information systems and quality assurance with a value

greater than 80%, Figure 1.

Figure 1. Competitive Map for areas of sports organizations Futsal





Source: own.

- Leaving a secondary screed to strategic planning and operations with average values
 close to 80% and an important indicator of the area of environmental management and
 marketing with greater than 70% in its assessment, which could be considered
 acceptable values improvement.
- The competitive level organizations synthetic field presents some average values higher than 83% which means a good organization and competitive level of the company against the market. They are important values where most significant difference is found in the state 1 and 4, which are not formal organizations, Table 2.



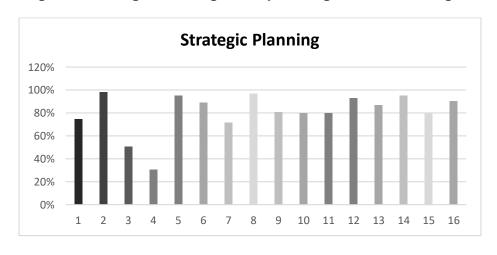
Table 2. Level of Competitiveness of sports organizations futsal in Bogota

CODES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Average
Level of competitiveness of the company	72 %	95 %	54 %	41 %	95 %	86 %	75 %	95 %	86 %	82 %	86 %	92 %	94 %	88 %	92 %	90 %	83%

Source: own.

• Strategic Planning: The result indicator of shows five (5) points below the average in the planning process, and only three (3) points in implementation of the strategy and where it is clearly one of the elements of the area to get better, Figure 2.

Figure 2. Strategic Planning Area sports organizations in Bogotá



Source: own.

 Production and Operations: As above Planning Area is the area of production and operations a variable to improve as it is below four (4) Average points below average,



but remains in a line of good grade. We find that the lowest state is five (5) points and is the ability of the process, as opposed to the higher than three (3) points is above average with values above 88% and refers to the location and infrastructure. Particularly in the entities we found that the lowest value is found in the provision, which says they have stage but have not provided equally in implementation and maintenance mater.

So, the same constant where public entity lose assessment (40%) and a large margin to the particular organizations (82%) is maintained, Figure 3.

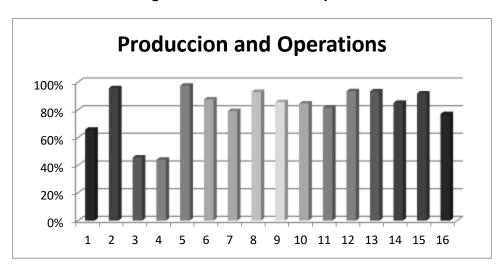


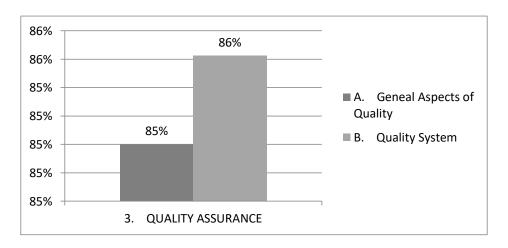
Figure 3. Production and operations

Source: own.

 Quality assurance: The variables that are above average and where it reaches values up to 100%, and with a minimum of 43% public and 76% in private. They have an even behavior between the two indicators of both the overall appearance of quality, such as quality system, Figure 4.



Figure 4. Quality assurance of sports organizations futsal in Cali



Source: own.

Marketing: These values stand up to analysis for the first part where you talk about marketing at local or national level, but not in the second where export issues and where in most cases respondents placed data on touch an average 4 for purposes not change in the final result. We found in some private entities to 100% valuation and minimal data for the particular 71% and 38% for the public. With special data analysis very similar average in the three structures marketing and sales, and distribution services. The coincidence between the two is the homogeneous behavior of the three indicators versus variable area for both cases, Figure 5.



82%
81%
81%
80%
80%
80%
NATIONAL MARKETING

Figure 5. Internal Market marketing of sports organizations futsal Bogotá

Source: own

 Values: Being the best management area observed in the 8 components referred to the study, finding values from 100% and minimum 60% in particular. Back to maintain a continuous homogeneous behavior among the three indicators to assess the area. On average are seven (7) points above average and which gives a very favorable performance against other variables, Figure 6.



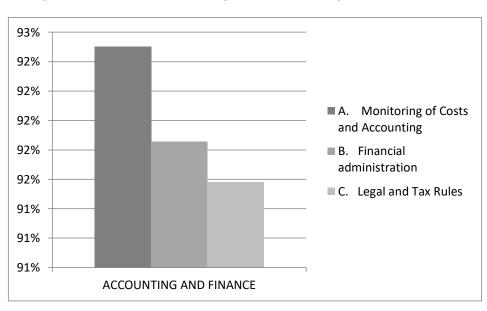


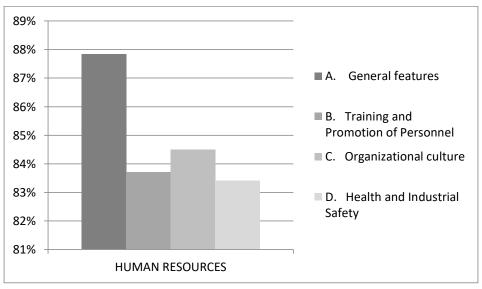
Figure 6. Graphic accounting and finance organizations Futsal

Source: own.

• Human Resources: It includes four indicators remain very close to the average and expressed containing an indicator with a superlative level to 88% corresponding to the general aspects of human resource management, Figure 7.



Figure 7. The human resource of sports organizations



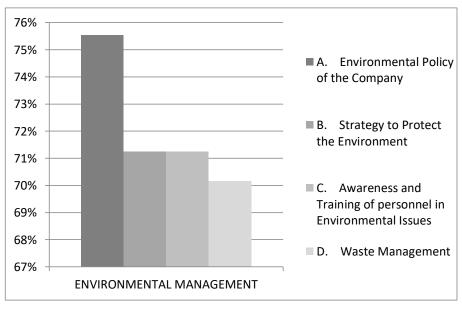
Source: own.

 Environmental Management: In consideration of other variables this area represents the opportunity to more noticeable improvement with averages rates below the average of



nearly fifteen (15) points, where with repeated public administration has few values in management, protection, strategy, awareness and environmental stewardship. Found values from 100% to a minimum of 62% (pa) in environmental policy, 100% (max.) 48% min (pa) in training, environmental strategy and waste management. In this particular area there is much. Figure 8.

Figure 8. Area Environmental management of sports organizations futsal Bogotá

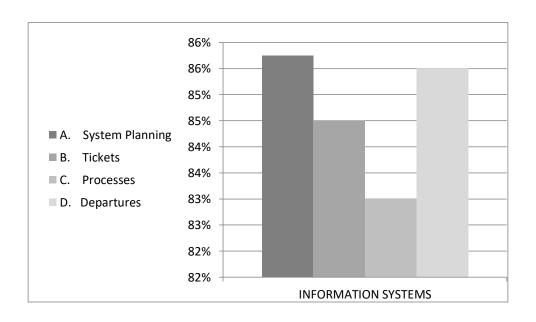


Source: own



 Procedure Information: This particular aspect represents the average behavior of rating valuation applied, behaving in an average 85% of its indicators, which demonstrate the good work they perform systematization in the monitoring and control of activities.
 Maximum values of 100% to a minimum of 76%, Figure 9.

Figure 9. Information Systems sports organizations futsal



Fecha de recepción: 11 de mayo de 2019 Fecha de aceptación: 18 de mayo de 2019

A Context Vision

VISIÓN ELECTRÓNICA

Source: own

6. Conclusions

Competitive map of sports organizations futsal Bogota, where amount to a total of 43

organizations are a good (85%) rating according to the instrument (software) applied

and which is valid for the BIC (Inter-American Bank of Commerce).

The competitiveness of sports organizations in Bogota, which have management system.

if the particular represent (88%) very high percentage of your score.

• We found a total of 23 tennis sites synthetic character (administration) particular.

• In areas that make up the competitive map of the organizations the area of

environmental management and marketing is to find the deficiencies in grade of 70%.

The areas of Accounting and Finance and the area of information systems have the best

qualification standards where figures reach 90% positive rating.

The areas of good grade but which are of a small monitoring are quality assurance along

with human resource that despite having an average close to the average (83%) may be

susceptible to improvement.

References

[1] B. Sander, "Educación, administración y calidad de vida", Editorial Santillana BS AS,

1990, pp. 187.



Fecha de recepción: 11 de mayo de 2019 Fecha de aceptación: 18 de mayo de 2019

A Context Vision

- [2] S. Villamarin Menza, "Administración de las organizaciones de educación física, recreación y deporte", Santander de Quilichao, Colombia: Alcaldía de Santander de Quilichao, 2004, pp. 48.
- [3] D. F. Morales Carvajal, "Review of Indoor Soccer. History and Background of the World Wide Room Soccer", Santa Fe de Bogotá, 2006, pp. 32.
- [4] G. Morales González, "Beneficios sociales de la práctica del Fútbol sala en la Universidad de las Ciencias Informáticas", 2003. [Online]. Available at: http://www.ilustrados.com/tema/5942/Beneficios-sociales-practica-Futbol-sala-Universidad.html
- [5] S. Quiroz Cuenca, "Competitiveness in the Mexican Company", Mexican Institute of Finance Executives, Mexico, 1995.
- [6] J. Hirshleifer and D. Hirshleifer, "Price theory and applications", Pearson Education, Sixth Edition, 2000, pp. 205.
- [7] G. García, "Caracterización de los esfuerzos en el fútbol sala basado en el estudio cinemático y fisiológico de la competición", *Revista digital Buenos Aires*, year 10, no. 77, 2004.
- [8] J. C. López Soto, "Análisis Biomecánico de la pierna en el pateo de fútbol sala", 2006. [Online]. Available at: http://viref.udea.edu.co/contenido/pdf/024-BiomPateoFutsala.pdf