



Research Article

ISSN : 0975-7384  
CODEN(USA) : JCPRC5

## The innovation of college sports professional tennis teaching under the theory of multiple intelligences

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### ABSTRACT

*From the perspective of multiple intelligences theory innovation in college sports, professional tennis teaching should at least include teaching philosophy, teaching objectives, teaching content, teaching methods, teaching evaluation of five parts. The changing of the concept of teaching should pay attention to teaching democracy, personalized, and diversified teaching in order to promote all-round development of students. Also, the teaching should aim at cultivating the students' basic knowledge and basic skills, and promote students' health, the pursuit of practicality, sustainability. All of these will meet the target which based on the needs of expansion body, multiple intelligences in training objectives, the tennis teaching process, in order to prepare for the part, basic part and the end part of the contents. In all, these will promote the overall development of students and combine with the multiple intelligence theory, and apply the intelligence into the tennis teaching method.*

**Key words:** the theory of multiple intelligences, tennis teaching, innovative research

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### INTRODUCTION

**Foreign research of Multiple Intelligences.** In the Reconstruction of multiple intelligences, Howard Gardiner elaborated: "over the past several centuries, especially in western society, the image of an ideal person is accepted by people more and more. It is a wise man (intelligent person) decides the standard due to changes in ceaseless development. In the traditional school, smart and capable man masters the classical language and math, especially geometry. In the business world, smart and capable man can foresee the opportunity and have the courage to take risks and good at establishing organization [1-4]; also, they can keep the balance of payments. At the beginning of twentieth Century, smart and capable is sent to remote areas of a country, which can effectively accomplish the mission. For many people, the idea remains vital to today [5-7]."

Thomas Armstrong, in his elements of intelligent in the classroom said that to carry out the student-centered teaching: "the application of multiple intelligences theory was carried to the teaching practice in class in order to elaborate the multiple intelligence education idea. The idea of constructing has put into practice. A large number of cases and a summary, presentation skills, strategies, methods and resources always come from the first school experience. Dr Armstrong teaches different grades of primary and secondary schools, teachers of different subjects provide useful help, inspiration, and teaching innovation, which guide them multiple intelligence to curriculum development and curriculum design, teaching evaluation, special education, awareness training, education policy. Among this, each field of occupation development maximizes the potential of students, development, and education value."

**Domestic research review.** Zhong Zhixian, in the article of Multi intelligent theory and educational technology, the author firstly introduces the connotation of multiple intelligence theory of Multiple Intelligence School. The future outlook is to regard the individual as the center of the school" as the direction of development. This paper finally expounds the effect of educational technology in multiple intelligence in Education: (1) there is relationship

between educational technology and multiple intelligence; (2) educational technology can be used as a multiple intelligence development platform; (3) to provide multiple intelligences development or activity based on rich learning design ; (4) to promote the development advantage of students intelligence by integrating; (5) as a variety of learning tools and evaluation tools, include performance tools, information access tool, the creation of scenarios tools, communication or communication tools, cognitive tools and evaluation tools.

Guan Shenghao, in his article of innovative teaching philosophy, the author thinks the idea is formed after a long time of practice and rational thinking to make the school sports to develop in depth, starting from the transformation of thoughts and ideas and the innovation of sports teaching should start from eight aspects: (1) the teaching goal must grasped by the element type to multi type; (2) PE teaching contents change from competitive to health; (3) the sports teaching organization change from the rigid type into the active type; (3) sports teaching methods change from closed to open; (5) changing sports teaching mode change single to diversity; (6) changing sports teaching curriculum from a simple model to comprehensive; (7) changing sports teaching evaluation system to the system; (8) the changing role of teachers by the time to the future.

### MULTIPLE INTELLIGENCES

**Some contents of the theory of Multiple Intelligences.** In 1983, Gardiner expounds the theory of Multiple Intelligences to people in his book the structure of intelligence. This theory has broken the original definitions of IQ and launched a challenge to traditional intelligence test. In his works, he used a large number of facts prove that a person's success does not necessarily depend on the individual single IQ. Gardiner also pointed out that the IQ test scores of individuals is not good, but it doesn't mean that his ability in music or painting is not strong, also cannot explain that he has low intelligence, because Gardiner thinks that intelligent of a person is diverse in addition to speech, a verbal intelligence and logical mathematical intelligence, the two most basic intelligence. They also has at least six other kinds of intelligence, as is shown in Table 1.

Table 1.the main content of multiple Intelligences

Multiple Intelligences	Definition	Features	Type of activities	The suit profession
Language	Have a skilled language ability	Like read, listen, talk, write something	Answer questions, read something fast	Poet Writer Lawyer
Logic	Have a skilled logic ability	Like reason, calculate	Collect information , data, reason something	Lawyer, Mathematician Engineer
Visual-space	Have a skilled ability to recognize shape and color	Like to use their own imagination	Use signs and some other multi-media	Painter Pilot Sculptor
Music	Have a skilled ability to recognize the tune and some musical thing	Like to sing and play some instrument	To play and practice, do something under some music	Musician Singer Composer
Physic	Have a skilled ability to balance one's body	Like to do some sports	Grasp some physical ability and sense	Athletics Dancer Physician
interpersonal	Have a skilled ability to talk with stranger	Like to interact with friends or some strangers	Cooperate with others	Teacher Manager Politician

### MAIN FEATURES OF MULTIPLE INTELLIGENCES

**Individual Intelligence.** According to the theory of multiple intelligences, everyone has eight different intelligent and each intelligence is in each person and absolutely is not exist in isolation, but to different degrees in different ways, they combined in a piece. Combined with the intelligence of each individual, they mutually have the difference and it is the difference that makes each individual has different characteristics at the same time. Even with a similar smart, each individual body performance have differences, there is no specific good or bad also, so it is difficult to have a an appropriate evaluation criteria to evaluate individual IQ, success. Therefore, in the process of teaching, we should treat every student equally, not to evaluate a student according to a single criteria to evaluate good or bad. In the teaching reform, multiple intelligences theory should take into consideration in essence in order to cultivate talents of different.

**The environment influence individual's intelligence development.** From the theory of multiple intelligences, the environment quality is very important effect for the individual development. No matter it is the natural environment, social environment and educational environment, they can form the aspects of the development of the individual and restrict to varying degrees in different environments. Although the students have eight kinds of intelligent, the

manifestation of these eight kinds of intelligent definitely will have different degrees of difference. In the teaching mode of the traditional in China, most of the education only attaches importance to the development of the student's speech, which is a linguistic intelligence and logical mathematical intelligence. To the other aspect, it is just as collateral, but with the development of society, its intelligence is gradually recognized by people, they believe that with the constant change of the social environment, natural environment, education environment will produce good to promote individual intelligence.

**Intelligent emphasizes on the development of individual.** From the analysis of Gardiner's theory of multiple intelligences, modern pluralistic society has outstanding talent, required not only by language and mathematical logic ability as the core; Modern society began to pay attention to the ability to solve practical problems. The reform direction of modern education is not only with the cultivation of linguistic ability and mathematical logic ability, but also to individual attention to students in order to cultivate to have to solve practical problems and create excellent students effective product ability oriented.

### PRESENT SITUATION OF PROFESSIONAL TENNIS TEACHING IN HENAN PROVINCE UNIVERSITY

The teaching goal of professional tennis sports in Henan Province. The teaching goal is the starting point and the foothold of teaching is the implementation of teaching aids to navigation. The teaching goal should at least include the following content: cultivating students' rich, healthy personality; the breakthrough and rich experience system, realize the transformation from knowledge to wisdom; complete picture help students construct knowledge, promote the comprehensive development of intelligence; improve student's hierarchy of needs.

Teachers in the teaching process should pay attention to the main goal of teaching tactics, and have ability to practice and guidance ability, competent in tennis teaching. Through the questionnaire survey, as shown in Fig1, for tennis teaching objectives, most teachers pay attention and accounted for 50%, technical and tactical proficiency accounted for 37%, with practice and guidance ability accounted for 10%. We can see that most of teachers in Colleges and universities in Henan province can play tennis teaching target and the training is focused too much on the tennis teaching ability, while for others the ability of attention is not enough.

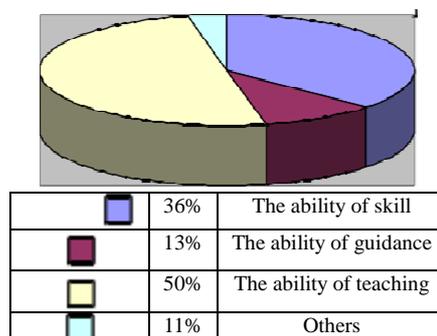


Fig 1. Teacher's attention to the teaching objectives

### THE INNOVATION OF PROFESSIONAL TENNIS TEACHING

**Changing of the teaching idea in sports professional tennis.** "Concept", in the "Chinese Dictionary", the explanation is "the concept of reason". In "the new modern Chinese Dictionary", the explanation is "idea".

To summarize the concept of Mu Ivan had many concepts, the "idea" of understanding can be summarized as follows: (1) "concept" is a philosophical concept a metaphysical, belongs to the category of the spirit, the unity of opposites is the material world; (2) "concept" is also included in a rational way since it is intuitive, rational knowledge summary; (3) "concept" self is dialectics, which is always in a process of dialectical development, therefore "is the eternal creation, eternal life and eternal spirit". "Concept" can be generally understood as a kind of spiritual power, state or is abstract thinking.

Wang Jisheng teacher think: education idea is the people's pursuit of the ideal of education, which is based on the law of education. Scientific concept of education is a kind of "have farsightedness", and it can reflect the essence and time characteristics of education, scientific specified in advance We can think that the education idea should be one of the basic categories of which belongs to the field of philosophy of education, which is the subject of education in the teaching practice of education subjective and rational knowledge.

**Expansion of the teaching objectives of college professional tennis.** The teaching goal is the starting point of teaching. It points out the direction for practice teaching specific. The teaching goal is to describe learning results

and end behavior on students, that the change or to the students at the end of teaching knowledge and skills. In the teaching activities, the teaching direction can aim for students and teachers to continue to inspire, thus, teachers and students can achieve the goal.

**The increase contents of professional tennis teaching in Colleges and universities.** "Teaching" is a vague concept in many teachers mind, which seems to be no need to define. But the content of teaching and textbook on the block are prone to confusion.

Teaching content generally refers to the curriculum content according to a certain teaching principle into all kinds of knowledge in the textbook; curriculum content is the interdisciplinary knowledge according to certain principle to achieve the teaching goal chosen; the teaching content is in accordance with the teaching materials and curriculum content, which combined with the actual situation of students and teaching, imparting knowledge to students.

Current sports teaching tennis most still use the traditional teaching mode, the lack of characteristics of the times. With the development of science and economy, society has gradually emerged, internationalization, informationization of value diversification, which has prompted the social changes of the demand for talents. In addition, the teaching content is not comprehensive, single function phenomenon universal existence. Therefore, the main content of this paper is to adjust and increase the tennis teaching, to promote students' all-round development.

### CONCLUSION

The multiple intelligence theory is the requirement of educational innovation in sports professional tennis teaching, which has many functions. They can effectively improve the comprehensive quality of tennis professional learning.

The theory of Multiple Intelligences Perspective has a comprehensive development of university sports professional tennis teaching and multiple intelligences and actively cultivates students in the philosophy of education. The process of innovation should reflect the democratization of teaching, individuation and diversification.

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