

was analyzed by Particle Swarm Optimization (PSO) single algorithm and evaluated. The evaluation contents of mental health level are anxiety and depression, and the evaluation index is the improvement rate. The score range is 0-50. The higher the score, the more serious the mental health problem. In order to ensure the authenticity and reliability of the research results, the average value of the two psychological problems of all subjects was taken as the final result. After the test, the study completed the data analysis through the latest statistical analysis software of PEMS.

**Results:** Table 1 refers to the improvement rate of students in the observation group in this experimental cycle. With the increase of the implementation time of the new financial teaching reform mode, students' psychological problems have been greatly relieved, but the degree of anxiety relief in the observation group is more obvious. This shows that the financial reform teaching model can greatly improve the anxiety of college students in the learning process.

**Table 1.** Improvement rate of students in the observation group in this experimental cycle

Index	Before	After 1month	After 3 months	After 6 months
Anxious	87.0	70.0	52.0	31.0
Depressed	86.0	74.0	68.0	57.0
Average	86.5	72.0	60.0	44.0

**Conclusions:** The teaching mode of financial reform in colleges and universities has an ideal effect on alleviating college students' psychological anxiety. It can significantly reduce students' learning anxiety and improve students' ability to deal with and solve uncertain problems. The research can apply the proposed teaching mode of financial reform in colleges and universities to the teaching work in other colleges and universities, so as to reduce the anxiety of students of related majors, and promote the improvement of students' professional knowledge, skills and mental health.

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## RESEARCH ON THE INFLUENCE OF IDEOLOGICAL AND POLITICAL CONSTRUCTION OF SPORTS DANCE COURSE ON COLLEGE STUDENTS' MENTAL HEALTH UNDER THE MIXED TEACHING MODE

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**Background:** Mental health is a very broad concept, which shows a very good state of internal and external regulation at the macro level. It involves not only the stability of the internal environment, but also the dynamic adaptability of the external environment. For people with different life cycles, mental health standards have certain heterogeneity, but this difference is quite different. As a seemingly relaxed group, college students are actually under great pressure. As more and more college students drop out of school due to psychological problems, even abnormal or malignant events such as suicide and murder are reported in newspapers from time to time. The psychological problems of college students can generally be divided into two categories: one is the general growth psychological problems, which generally have psychological barriers but are not serious, and are the main psychological problems of college students; Second, there are different degrees of psychological barriers. Students' psychological problems in the process of growth involve environmental changes and psychological adaptation, psychological problems caused by improper learning psychological adjustment, psychological and behavioral deviations caused by relatively unreasonable ability of emotion control, self-cognition and self-evaluation, as well as personality development and will quality training in interpersonal communication, love and sexual psychology.

With the increase of students' psychological problems, college physical education curriculum needs to be reformed in the new era. The characteristics of the online and offline mixed teaching mode are as follows: the transformation of teachers' roles and the difference in the division of labor in classroom teaching. The meaning of ideological and political education of sports dance course is as follows. College sports courses need to form a coordination effect with ideological and political peers, and build a new pattern of educating people in the whole course, the whole process and the whole staff. Its essence is to cultivate people by virtue, organically combine education and talent cultivation, pay attention to the learning and inheritance of traditional culture, and shape and influence students' values, outlooks on life and the world, and guide students to form positive cultural, historical, national and national outlooks, and then cultivate

comprehensive talents of morality, intelligence, physique, art and labor for the society. The main points of the construction of sports dance ideological and political course combined with the online and offline mixed teaching mode are as follows: strengthen the subject consciousness of physical education teachers and improve their initiative. Constantly improve the ideological and political quality of physical education teachers. Physical education teachers should actively look for appropriate ways to implement ideological and political education.

**Objective:** In order to analyze the influence of Ideological and political construction of sports dance course on college students' mental health under the mixed teaching mode, and to contribute to the improvement of students' mental health.

**Subjects and methods:** 100 college students were randomly divided into blank group and observation group. The blank group adopted the education mode of ordinary sports dance course, and the observation group adopted the ideological and political construction of sports dance course under the mixed teaching mode. The experimental period was 6 months. After the experiment, the statistical data were analyzed by BMDP data analysis software. The mental health status of college students passed the Symptom Checklist 90 (SCL-90), which includes 90 items and 10 sub scales, of which 10 sub scales are not used for statistics. The 9 factors were divided into somatization, obsessive-compulsive disorder, interpersonal sensitivity, depression, anxiety, hostility, terror, paranoia and psychosis. The maximum score of each item in each sub scale is 4 points. The higher the self-evaluation of each item, the more serious the symptoms. The subjects' self-evaluation of each item is equal to or greater than 3 points, which is used as the standard to judge the degree of moderate or above.

**Results:** Table 1 refers to the mitigation effect of ideological and political construction path of sports dance course on college students' mental health under the mixed teaching mode. Somatization, obsessive-compulsive disorder, interpersonal sensitivity, depression, anxiety, hostility, phobia, paranoia and psychosis were the nine quantitative factors. With the increase of time cycle, the anxiety symptoms gradually relieved. Therefore, the educational model proposed in this study can alleviate the mental health problems of college students.

**Table 1.** The alleviating effect of ideological and political construction path of sports dance course on college students' mental health under the mixed teaching mode

Mental health indicators	After 1 month	After 2 months	After 3 months
Somatization	3	2	1
Obsession	3	3	2
Interpersonal sensitivity	2	2	1
Depressed	3	2	2
Anxious	2	2	1
Hostile	3	3	2
Terror	2	2	1
Paranoid	3	2	2
Psychotic	3	2	1

**Conclusions:** Under the multiple pressures of study, life, emotion and employment, the mental health problems of college students are imminent. The bloody facts constantly remind people from all walks of life to pay attention to the mental health of college students. The mental health of college students has gradually become the focus of social attention. The educational model proposed in this study can alleviate the mental health problems of college students and help them improve their mental health.

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## ARTIFICIAL INTELLIGENCE BASED FACE IMAGE RECOGNITION RESEARCH ON THE IMPACT OF CAMPUS SECURITY SYSTEM DESIGN ON AUDIENCE PSYCHOLOGY

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**Background:** Audience refers to the receivers of information dissemination, involving movie audiences,