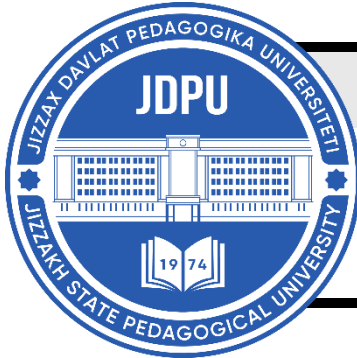


**MENTAL ENLIGHTENMENT SCIENTIFIC –
METHODOLOGICAL JOURNAL****MENTAL ENLIGHTENMENT SCIENTIFIC –
METHODOLOGICAL JOURNAL**<http://mentaljournal-jspu.uz/index.php/mesmj/index>**TECHNOLOGIES FOR IMPROVING THE QUALITY OF PHYSICAL
TRAINING OF YOUNG JUDOKA GIRLS DURING TRAINING*****Iroda Bakhtiyarovna Matmuratova****Lecturer**Jizzakh State Pedagogical University**Jizzakh, Uzbekistan***ABOUT ARTICLE****Key words:** Technologies, physical training, young judoka girls, improving quality, training.**Received:** 01.05.24**Accepted:** 03.05.24**Published:** 05.05.24**Abstract:** Physical training is a critical component of a young judoka girl's development. To improve their performance, they need to have a proper training regime that combines various exercises and techniques. Technology has advanced significantly over the years, and it can be used to improve the quality of physical training. In this article, we will explore various technologies that can be used to improve the quality of physical training for young judoka girls.**INTRODUCTION**

Physical training is essential for young judoka girls for several reasons. Firstly, it helps to improve their physical fitness, strength, and agility, which are essential for performing various techniques and movements required in judo. Secondly, it helps to prevent injuries, as a well-conditioned body is less prone to injuries. Finally, physical training also helps to develop mental toughness, focus, and discipline, which are critical traits needed in judo. Judo is a sport that requires a combination of physical and mental strength. It is a martial art that originated in Japan, which emphasizes the use of grappling techniques to subdue the opponent. Judo has been recognized as an Olympic sport since 1964 and is now one of the most popular combat sports in the world. It is a sport that is popular among both males and females, and as such, young judoka girls have become increasingly interested in the sport. However, to improve the quality of physical training of young judoka girls during training, there is a need for the integration of technology. Technologies for Improving the Quality of Physical Training of Young Judoka Girls During Training.

Wearable Technology

Wearable technology is a type of technology that can be worn on the body as accessories, clothing, or even implants. It has become increasingly popular in recent years and has the potential to revolutionize the way sports are played and trained for. The use of wearable technology can help young judoka girls monitor their physical activity, including their heart rate, body temperature, and other biometrics. This can be useful in ensuring that the young athletes are training at the right intensity, which can improve their performance and prevent injuries. One of the wearable technologies that can be used in judo training is the smartwatch. Smartwatches have sensors that can track the wearer's movements, including steps taken, distance traveled, and calories burned. They can also measure heart rate, which is important in monitoring the intensity of the training. Additionally, some smartwatches can measure the wearer's sleep quality, which can be helpful in ensuring that the young athletes are getting adequate rest. Another wearable technology that can be used in judo training is the fitness tracker. Fitness trackers can monitor the wearer's physical activity, including steps taken, distance traveled, and calories burned. They can also monitor heart rate and sleep quality. Fitness trackers can be worn as a wristband or clip-on device and are relatively inexpensive, making them accessible to most young athletes.

Biomechanical Analysis

Biomechanical analysis is the study of the mechanical laws relating to the movement or structure of living organisms. It is used in sports to analyze the movements of athletes and to identify areas that require improvement. In judo, biomechanical analysis can be used to analyze the techniques used by young athletes and to identify areas that require improvement. One of the technologies that can be used in biomechanical analysis is motion capture. Motion capture is a process that involves recording the movement of an object or person and then using that data to create a computer-generated animation. In sports, motion capture can be used to analyze the movements of athletes, including their posture, footwork, and timing. This can help young judoka girls improve their techniques and prevent injuries. Another technology that can be used in biomechanical analysis is force plate analysis. Force plate analysis involves the use of a special plate that records the forces applied to it. In sports, force plate analysis can be used to analyze the forces applied during training or competition.

Video Analysis

Video analysis is a technique used to analyze video recordings of training sessions or competitions to identify areas of improvement. This technique can be used to identify flaws in technique, movement, and posture, which can then be corrected through targeted training.

For example, a video analysis of a young judoka girl's training session can be used to identify flaws in her technique, such as improper foot placement or inadequate hip rotation. These flaws can then be corrected through targeted training exercises, which can improve her overall performance.

Strength and conditioning equipment

Strength and conditioning equipment, such as weightlifting equipment and resistance bands, can be used to improve the strength and conditioning of young judoka girls. These exercises can help to improve their power and endurance, which are essential for performing various techniques and movements required in judo. For example, resistance band exercises can be used to improve the strength and endurance of the muscles used in throwing techniques, such as the legs and core. Similarly, weightlifting exercises can be used to improve the power and explosiveness of the muscles used in striking techniques.

Virtual Reality

Virtual reality (VR) is a technology that has been gaining popularity in various industries, including sports. VR involves creating a simulated environment that can be interacted with using specialized equipment such as headsets or gloves. In sports, VR can be used to simulate game situations or provide a more immersive training experience. In judo, VR can be used to simulate sparring sessions or to provide a more realistic training experience for young judoka girls. By using VR, athletes can practice their technique in a safe and controlled environment without the risk of injury. This can be particularly useful for young athletes who may be hesitant to try certain techniques in a real sparring session. One of the advantages of VR is that it can provide a more immersive experience than traditional training methods. This can help athletes to better retain information and develop their skills more quickly. VR can also be used to provide a more engaging and enjoyable training experience, which can help to keep young athletes motivated.

Performance Tracking

Software Performance tracking software is another technology that can be used to improve the quality of physical training for young judoka girls. These programs allow coaches to track various metrics related to physical performance, such as strength, power, and speed. They can also be used to monitor progress over time and identify areas for improvement. One of the most popular performance tracking software programs is CoachMePlus. This software allows coaches to track various metrics related to physical performance, such as strength, power, and speed. In conclusion, technology has undoubtedly improved the quality of physical training for young judoka girls in recent years. With the advent of advanced tracking technologies, coaches can now better monitor their

athletes' progress and identify areas that need improvement. Additionally, video analysis and online resources have made training more accessible and customizable, allowing young judoka girls to tailor their workouts to their individual needs and preferences. The physical training of young judoka girls is crucial in developing their overall physical abilities, skill, and expertise in judo. In recent years, technology has played a significant role in improving the quality of physical training for young judoka girls. Several technological tools and equipment have been developed to help trainers and coaches create personalized training programs and monitor the progress of their athletes. From wearable technology to video analysis software, technology has brought about significant advancements in the field of sports training. One of the most significant benefits of technology in sports training is its ability to provide precise data on athletes' performance. Wearable technology such as smartwatches, fitness trackers, and heart rate monitors can be used to measure various physiological parameters such as heart rate, blood pressure, and oxygen saturation. This data can then be used to create personalized training programs that are tailored to each athlete's unique needs, abilities, and goals. Another significant benefit of technology in sports training is its ability to provide real-time feedback to athletes during training. Video analysis software and motion capture technology can be used to record and analyze athletes' movements and techniques. This data can then be used to provide immediate feedback to athletes, helping them correct their technique and improve their performance. In addition to providing feedback during training, technology can also be used to analyze an athlete's performance after training. Data analysis software can be used to track an athlete's progress over time, identify areas for improvement, and help trainers and coaches create targeted training programs to address these areas.

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