The Mission: Faculty of Health and Sport Sciences, University of Tsukuba Our Ten Missions toward Society

As members of Faculty of Health and Sport Sciences the University of Tsukuba, we will fulfill the following missions to solve the global issues of the 21st century and promote human happiness, by active contribution in the fields of physical education, sports, and health.

1. Education

Develop leaders eligible of solving issues on site
We will foster leaders who can solve problems at the various sites where physical education, sports, health, and other activities take place. This will be done in an educational system with undergraduate and Master’s Program in cooperation, or within a recurrent education for adults, through practical education such as problem-solving learning and internship.

Take leadership in doctoral studies in the field of physical education, sports and health
We will be the front runner in Japan’s doctoral studies in the field of physical education, sports and health by working to produce researchers and highly specialized professionals with deep expertise and comprehension, or interdisciplinary abilities with a global perspective.

The contribution of sports and physical education to the development of human resources
The abundant practice of sports and physical education fosters a healthy body, rich heart, and strong spirit. It contributes to “globally oriented human resources endowed with intelligence, human nature, and robustness that are applicable to the world stage” as put forth in the Tsukuba Standards.

2. Research

Internationally convey research findings on Japan’s unique physical culture, martial arts, and sports
In light of the humanities and social research regarding the values and ethics of sports, we will conduct research on the characteristics of Japan’s unique physical culture, martial arts, and sports, and encourage global transmission of our research findings.

Promote practical research in a wide range of fields which contributes to the actual education
Based on fundamental research and theoretical study of physical education, sports, and health, we will promote practical research in a wide range of fields contributing to the actual education.

An interdisciplinary research base on leading-edge health and sport sciences
We will promote research on leading-edge health and sport sciences as an interdisciplinary study to fulfill our mission to guide the national policy on “promoting the health and physical fitness of the Japanese people.”

3. Competitive Sports

A high-performance reinforcement base with research, practice, and education as the three pillars
Research on improving competitive sports performance and instruction based on the research results, and coach education—with these three elements functioning as one, the high-performance reinforcement base will contribute to improving Japan’s competitiveness in the sports events.

4. Social Contribution

Regional health promotion system for solving national health issue
In addition to providing people of the world with advanced health support measures that make use of the research results in sports medicine, we will create a health promotion system in collaboration with medical institutions and the local community.

Comprehensively return “Knowledge” and “Technique” to the society
While making active social contributions from an academic perspective by managing scientific societies, we will also return comprehensive research results on physical education, sports, and health science to the local community; thereby support education according to life stage, lifelong sports, and improvement in competitive performance.

Strengthen our function as a hub for industry, government, and academia collaboration
For the above nine missions, the Faculty of Health and Sport Sciences University of Tsukuba will become a hub for forming industry, government, and academia collaboration, and continuously present innovative ideas to achieve more fulfilling results.
The Faculty of Health and Sports Sciences seeks to contribute to the development of scientific culture through comprehensive promotion of basic and applied research in a wide range of academic fields from the natural sciences to the humanities and social sciences as they concern physical education and sports movements while monitoring results in other fields. The Faculty also seeks to respond to modern societal demands. University of Tsukuba has offered Olympics studies classes as an academic course since 2003. Instructors include not only university faculty members, but also an IOC vice president, a JOC president, an IOC Sport and Environment Commission member, a sports photographer, NHK personnel, and Olympians who were invited to give lectures from their unique perspectives on the cultural diversity of the Olympics and future issues concerning the Olympic movement. The total number of persons who have taken Olympics studies classes over the past three years exceeds 1,000. Dr. Jacques Rogge, IOC president and a promoter of the Olympic movement, recognized Tsukuba University as an extremely enthusiastic site for research on and promotion of the Olympic movement. In an “Olympic no Bokyo” (Olympic Studies) class held in 2003, he conveyed this message to the students and later continued to support the class. In recognition of his contributions, University of Tsukuba presented Mr. Rogge an honorary doctorate in October 2006.

In 2002, The Promotion of Health and Sport Scientific Research program was selected as a Twenty-First Century Center of Excellence (COE) Program on a joint application by the Physical Education Science Department and the Sports Medicine Department. The Centre for Olympic Research and Education has been established in 2010 approving by IOC. This five-year program focuses on three research projects: (1) development of sports and activity programs that support the invigoration of lifestyles based on the physical capability characteristics of persons from young children to seniors; (2) development of programs to enhance human health and sports medicine research to establish tailor-made activity-based treatments; and (3) creation of training methods to enhance the competitive abilities of leading athletes and development of athletic rehabilitation. Through these activities, the program seeks to create a global research center that can address both basic and applied issues.

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SPEC : Sport Performance and Clinic Lab. 11
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/ HISTORY
The University of Tsukuba was established in October, 1973, when the Tokyo University of Education, its predecessor, was relocated. With the good tradition and characteristics of the predecessor, the creation of University of Tsukuba brought about the first major university reform in Japan to meet a demand from inside and outside the universities. Since its foundation, the principles of the University of Tsukuba, namely “New Systems for Education and Research,” “New University Government,” and “Open University,” have attracted attention from various people, and have played a leading role in university reforms.

/ EDUCATIONAL SYSTEM

// Undergraduate Courses
The University of Tsukuba further developed its unique features and reformed its undergraduate school system to achieve a better quality of education. The University has 7 composite schools: the School of Humanities and Culture, School of Social and International Studies, School of Human Sciences, School of Life and Environmental Sciences, School of Sciences and Engineering, School of Informatics, and School of Medicine and Medical Sciences, each of which include colleges of similar disciplines. In addition to these composite schools the School of Health and Physical Education and the School of Art and Design in which students are required to acquire special abilities and qualifications, exist independently.

// Graduate Courses
The University of Tsukuba offers both master’s and doctoral degree programs for education and research guidance. The two-year master’s degree programs aim at producing professionals with academic and technical expertise and offer re-education opportunities for the general public. They are not divided into the usual specialized fields and adopt an interdisciplinary education system. The doctoral degree programs train students to become independent researchers capable of conducting original research with the aim of training highly specialized professionals. In addition, there are evening graduate courses for working professionals in Otsuka, Tokyo: Counseling and Rehabilitation Science course and Sports and Health Promotion course and Doctoral Program (for the last three years) in Business Sciences Studies.

/ RESEARCH SYSTEM
Other than its educational organizations, the University of Tsukuba has also established research institutes, special project research groups and research centers. The research institutes have been established according to fields of research. This grouping is not based on special fields of a narrow spectrum, but on intimately related areas where communication is possible on the specialist level. Faculty members belong to one of these institutes where they conduct individual studies in accordance with their specialties, and teach in the undergraduate and graduate schools.

// AREA, STAFF and STUDENTS

<table>
<thead>
<tr>
<th>Campus Area</th>
<th>2,465,247m², 4 km North to South, 1 km West to East.</th>
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<td>President 1, Vice Presidents 9</td>
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<tr>
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<td>Assistant Professors 284</td>
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<td>Research Associates 304, Others and Administrative staff</td>
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<tr>
<td>Students</td>
<td>Total(Male / Female)</td>
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<td></td>
<td>Undergraduates 9778( 5948 / 3830 )</td>
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<td>Graduates 6632( 4364 / 2268 )</td>
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School of Health and Physical Education and Faculty of Health and Sport Sciences

/ HISTORY
Both the School of Health and Physical Education and the Faculty of Health and Sport Sciences at the University of Tsukuba originate from the National School of Gymnastics founded in 1878, which is the oldest institute in Japan for gymnastics and physical education. The institute was combined with Tokyo Normal School in 1885. In 1902, Normal School was reorganized as the Tokyo Higher Normal School. The faculty of Physical Education was instituted in 1915. In 1924, the National Institute of Health and Physical Education was founded in Tokyo and in 1941 it was reorganized as the Tokyo College of Physical Education. After World War II, the Faculty of Health and Physical Education was established within the Tokyo University of Education in 1949.

This was the result of the amalgamation of the Tokyo Higher Normal School, the Tokyo University of Literature and Science, the Tokyo College of Physical Education and the Tokyo College of Agricultural Education. In 1960, the Institute of Sport Sciences was created as an addition to the Faculty. With the establishment of the University of Tsukuba in 1973, a new system of health, physical education and sport sciences was developed on the base consolidated by the reorganization of the former Faculty and the Institute, as well as by the recruitment of new faculty staff members.

/ RESEARCH SYSTEM
Health and Sport Sciences consists of three fields; Physical Education and Sport Studies, Health and Human Performance Studies, and Coaching Studies. Physical Education and Sport Studies includes fields such as sport culture, sport management and politics, and sport pedagogy and psychology. Health and Human Performance Studies contains fields such as fundamental and practical researches on exercise and sport and health promotion. Coaching Studies contains fundamental methodology of sports as well as methodology of specific sports including outdoor education and dance. Research in all areas covers a wide range of topics including fundamental as well as practical research.

The Faculty of Health and Sport Sciences has more than 100 full-time research staff members consisting of professors, associate professors and assistant professors as well as contracted research associates and assistants. The Faculty also accepts foreign teachers and researchers. The staff are responsible for teaching undergraduate and graduate students, and also for carrying out various research projects. These projects are conducted in conjunction with researchers from inside and outside the institute. This puts the institute at the center of the development of physical education, health and sport sciences in Japan.

Advanced Research Initiative for Human High Performance was established in July, 2015

The Faculty of Health and Sport Sciences also publishes two research journals every year, Bulletin of Faculty of Health and Sport Sciences and Bulletin of Sport and Physical Education Center of University of Tsukuba.
ANNUAL PUBLICATIONS

Bulletin of Faculty of Health and Sport Sciences, University of Tsukuba (since 1978)
Bulletin of Sport and Physical Education Center, University of Tsukuba (since 1979)
Bulletin of Sport Methodology, University of Tsukuba (since 1984 to 1999)

Professor Sawao KATO

7 gold medals which Professor Sawao KATO won at the Olympic Games (Mexico 1968 and Munich 1972 Olympic)

Professor Sawao KATO has been commended to “THE ATHLETES OF THE CENTURY.”
This commendation ceremony was held in Budapest, Hungary on June 26, 1999 as part of the 75th anniversary of AIJS (International Sport Journalist Association).

Principal of Tokyo Higher Normal School
Kano Jigoro (1860-1938)

Research System

Faculty of Health and Sport Sciences

Advanced Research Initiative for Human High Performance

Education System

Undergraduate Course
School of Health and Physical Education

Graduate School of Comprehensive Human Science

Master’s Program in Health and Sport Sciences
- Health and Sport Sciences
- Sport and Health Promotion
- International Development and Peace through Sport

Doctoral Programs
- Physical Education, Health and Sport Sciences
- Coaching Science
- Sports Medicine
- Human Care Sciences
- Advanced Physical Education and Sports for Higher Education

Sports and Physical Education Center
Education System

/ Undergraduate Program (four years)
School of Health and Physical Education seeks to educate students to be professional leaders with basic and comprehensive knowledge and practical skills in health and physical education.

/ First and Second Year (Freshman and Sophomore)
Students are required to experience various sports and to learn basic theories and practices. Students undergo training concerning analysis of their own issues regarding athletics practices based on scientific data. Students use their academic results to design their own study plans and training regimens and create programs and take measures to resolve their own issues.

/ Third and Fourth Years (Junior and Senior)
Students choose an area of study for the completion of their graduation theses.

A. Physical Education and Sport Studies
Students study physical education and sports mainly by using cultural and social science approaches. The scope of the Physical Education and Sport Studies includes philosophy of PE and sport, history of PE and sport, budo, sociology of sport, management of PE and sport, psychology of PE, sport pedagogy, and adapted PE.

B. Health and Human Performance Studies
Students study sports and exercises mainly by using natural science approaches. The scope of the Health and Human Performance Studies includes applied anatomy, human physiology, exercise physiology, sport nutrition, biomechanics, human performance, test and measurement, sports medicine, environmental health, and health education.

C. Coaching Studies
Students study various approaches for investigating sports, characteristics of each sport, and practice and instruction methods.
/ Master’s Programme in Sport and Olympic Studies

An international centre of excellence to develop global sport professionals for the Tokyo Olympic and Paralympic Games in 2020, as well as for the future world of sport. This programme is a part of the “Sport for Tomorrow” project funded by the Japanese government. It can accept 15 overseas students with full scholarships and 5 Japanese who are expected to be leaders of the international sporting world. Participants are taught comprehensive knowledge and management skills in English. Five fields are developed over the course of study: Olympic and Paralympic Education; Sport Management; Sport Science and Medicine; Sport for Development and Peace; Teaching, Coaching and Japanese Culture.

The aim of this programme is to develop the next generation of leaders in the sporting world as follows:

- Professionals with practical skills who are able to apply their academic knowledge to actual professional situations. The Olympic and Paralympic Education we teach is based on the thoughts of Jigoro KANO and preeminent sport scholars, in cooperation with NOC, NPC, NFs, ADA, OCOG, governmental agencies, private companies etc.
- Leaders who can disperse and promote Japanese culture through the Tokyo Olympic and Paralympic Games in 2020.

See more details at the web site: http://tkjids.taiiku.tsukuba.ac.jp/en/

/ Joint Master’s program in International Development and Peace through Sport

This program aims to educate students who will contribute to solving social issues through sport as a tool for development and peace. The University of Tsukuba and the National Institute of Fitness and Sports in Kanoya are collaborating with the Japan Sport Council to provide an innovative academic program in English which allows students to develop practical competence in international development and peace through sport. Students learn in five fields: International development and peace; Education and youth development; Gender, race and ethnicity; Health and environment; Aged and adapted sport.

The main focus will be on fostering graduates who can:

- Assume responsibility for international development and peace through sport in Japan and overseas.
- Work actively within international organizations with special knowledge concerning the Olympic and Paralympic movement, promote international peace, friendship and the education of young people, and know the historical development of the movement.
- Understand the various systems and practical implementation of physical education in Japan, and can provide support to foreign nations.
- Individual programs are adapted to the strengths and concerns of each student, with specially prescribed curricula, and tailor-made study formats.

See more details at the web site: http://tkjids.taiiku.tsukuba.ac.jp/en/
/ Doctoral Programs
The Doctoral Program in Physical Education, Health and Sport Sciences is designed to further advance the physical, biological, and social studies of physical fitness, sports, and sports culture, based on humanities, social science, and natural science as nurturing students' research skills and opportunities to acquire a wide range of knowledge required for autonomous research activities in health and sports sciences fields. The program includes the following six research fields such as 1) Physical Education and sport culture, 2) Sport management and policy, 3) Physical education and sport education, 4) Exercise life sciences, 5) Health and human performance sciences, 6) Exercise and sport coaching science. Under the newly revised classification of these areas, designed to respond to the rapidly diversifying research fields, specific advanced research programs will be conducted based on unique methods.

The Doctoral Program in Coaching Sciences was established to cultivate human resources higher than the existing professionals in sports and martial arts. The program aims at training students to become doctors with assured executive ability and advanced research ability. After completion of this program they are expected to work successfully in supervising research and involving in higher education at a physical education or sport-related college. This program consists of General Theories and Separate Theories. The former is subdivided into Principles of Coaching, Theory of Training and Theory of Human Movement. The latter is subdivided into Theory of Individual Sports, Theory of Ball Games and Theory of Budo.

The Doctoral Program in Sports Medicine consists of four study fields (basic sports medicine, sports medicine for respective life stages, sports medicine for high performance, and sports medicine for health and diseases) that are provided in concert by instructors specializing in physical training science, medicine, and psychosomatic medicine. We train high-level professionals, such as sports doctors. For the purpose of achieving better health management, an improvement in sporting conditions, and the prevention of and rehabilitation from sports injuries, doctors engaged in the prevention of lifestyle-related diseases, kinesitherapy, etc., and kinesitherapists focusing on preventive medicine.

The Doctoral Program in Human Care Science aims to integrate the theories and methods of such people-helping disciplines as education, welfare, nursing, medicine, and psychology, into human care science. The program consists of education for decency, developmental clinical psychology, clinical psychology, livelihood support science, gerontological nursing and caring, health sociology and stress management, social psychiatry and mental health, medical science and welfare, health services research, as well as health care policy and management.

The Doctoral Program in School Education Sciences aims to prepare students for academic careers with professional skills for conducting research connected with educational activities in schools. The program is designed to meet the need for dealing with complicated and turbulent problems in school education and for conducting practical research in education. The program is divided into School Curriculum and Instruction, and Education in School Subjects. The program of Education in School Subjects consists of Social Studies Education, Language Education, Mathematics Education, Science Education, Physical Education, and School Health.

/ Sports and Physical Education Center
The Center offers such services as organization of classes for required sports and physical education, giving aid to extra curricular sports activities, providing for the community service of physical fitness and sports, administration of sports facilities.
Special Research Facilities

/ Environment Control System
The environment control system consists of a main room and a sub-room; it is a low pressure simulator which can reduce the level of air pressure to a third of the normal air pressure, equivalent to an altitude of approximately 8000m, and controls air temperature ranging from 4 °C to 40°C. A motor-driven treadmill is installed in the main room. Since its establishment in 1978, extensive researches on environment and physical work capacity have been conducted. In addition, the system has been used for the training of athletes’ aerobic working capacity at normoxia and hypoxia and Alpinists’ acclimatization to high altitude for the prevention of mountain sickness.

/ Swimming Flume
The swimming flume is a vertical type circulating water channel with an open water-surface as a swimming section. There are observation windows in the front, rear, and bottom. Water flow is generated by an axial impeller. Flow speed is continuously adjustable by an impeller speed controller. Major features of this flume are uniformity of water flow distribution in the swimming section by a surface regulator, and suction of bubbles surrounding the swimmer by a vacuum pump. Studies using the flume have included physiology of swimming involving measurements of maximal oxygen uptake, cardiac output and EMG, biomechanics of swimming analyzing form using the observation windows on the bottom and the side walls, and measurement of drag and lift of swimmers.

/ Wind Tunnel Testing Laboratory
This is a low-velocity and low-turbulent circular tunnel type (Gettigen type) wind tunnel; the size of measurement section is 1.5 m (height) x 1.5 m (width). As its maximum flow velocity is 55 m/s and turbulence intensity is less than 0.1%, it exerts the world’s top level performance as the wind tunnel for sports. It has been used for R&D of many sports products and technologies such as sports balls, ski jumping, competition bicycles and low-air-resistance sports wears. It has also contributed to the Japan Olympic representative. As relevant measurement systems, the facility owns the weighting scale, the force platform, the 3D motion capture system and the PIV measurement system which enable to research sports fluid dynamics and engineering multilaterally.
International Exchange Program

/ Exchange of Teaching Staff and Researchers
Modern higher education has become increasingly international in character. The faculty of Health and Sport Sciences places strong emphasis on the international exchange in order to enhance the quality of research and education related to health and sports. Since 1975 the faculty has invited many scholars and coaches from foreign countries as part-time or full-time faculty members. There are various types of exchange programs which are financially supported by the Ministry of Education, Culture, Sports, Science and Technology and other foundations.

// Academic Exchange Agreement and Student Exchange
The faculty has established student exchange and/or academic exchange agreements with
University of Queensland (Australia)
University of Otago (New Zealand)
Universitat Leipzig (Germany)
Eötvös Loránd University (Hungary)
The Dharma Gate Buddhist College (Hungary)
kyunghee University (Korea)
University of Incheon (Korea)
National Taiwan Normal University (Taiwan)
Chulalongkorn University (Thailand)
Manav Rachna International University (India)
Bedfordshire University (UK)
Kent State University (USA)
University of Sao Paulo (Brazil)
Loughborough University (UK)
Srinakharinwirot University (Thailand)
Brock University (Canada)
Russian State University (Russia)
University of Physical Education (Hungary)
Seoul National University (Korea)
University of Muenster (Germany)

In addition to the exchange students from our partner universities, we accept many international students from various countries. In the fiscal year 2015-2016, a total of 131 foreign students study in our degree programs at graduate school.

/ Extension Program
The University of Tsukuba strives to open the university to society at large through professional in-service and community service programs.

// Professional In-Service Program
A variety of programs are offered to physical education teachers, athletic coaches, school administrators, and community recreation leaders for learning the advanced theory and practice of health, physical education, and recreation throughout the nation. Approximately 250 teachers and leaders participate in 10 programs each year.

// Community Service Programs
The faculty of Health and sport sciences is also very active in offering diverse sporting activities to the local community. A total of 800 people participate each year in such sporting activities as golf, baseball, soccer, rugby, tennis, swimming, volleyball, badminton, Kendo and Kyudo (Japanese archery).

/ Extracurricular Sport Activities
The University of Tsukuba has placed special emphasis on the importance of extra-curricular sporting activities, which aim to enhance the physical, mental, and social well-being of students throughout their university life. A variety of sports and recreational activities are offered to the students through intercollegiate athletics and intramural activities, which are sponsored by the Division of Extracurricular Sport Activities at the Sports and Physical Education Center.

// Intercollegiate Athletics
Students can now choose from among 40 intercollegiate athletic teams and 15 interest groups. Approximately half of the students enroll in one of these teams or groups. The University of Tsukuba has not only become respected across the country for the size of the program, but also for its quality and overall success.

The intercollegiate athletic program makes unique contributions by producing many distinguished athletes at the Olympic Games, World Athletic Championships, and All-Japan Championships.

Such teams as badminton, basketball, gymnastics, Judo, Kendo, Kyudo, soccer, swimming, handball, tennis, track and field, rugby and volleyball usually participate in national tournaments and are regularly ranked in the nation's top five.

// Intramurals
Intramurals offers a broad program of sporting activities both on competitive and an informal basis for men and women. A special event called “Sports Days” is held twice a year. All university classes are suspended for Sports Days in the Spring and Autumn in order to permit all students to participate.
SPEC : Sport Performance and Clinic Lab.
http://www.taiiku.tsukuba.ac.jp/spec/
The SPEC is composed of three zones.

/ Experimental Zone

The 1st floor is called the “Experimental Zone”, where we investigate performance of athletes from a biomechanical perspective and educate coaches in knowledge and skills of biomechanics and coaching.

The central arena is wide enough to analyze almost any kind of motion of sports biomechanically (with VICON for 3-D motion analysis, force plates for measurement of ground reaction forces, high speed cameras, electromyography, and so on).

In the motion analysis room, we analyze videotaped performance by a high speed camera, and compute a high advanced calculation.
In the image processing room, we edit a videotape to make an imaging document for coaching and teaching.
This zone also has a climbing wall.

/ Counseling and Common Zone

The 3rd floor is called the “Counseling and Common Zone,” where we help athletes to cope with mental problem and to improve their performance. Athletes can receive mental training, counseling, sand play therapy, and so on. We foster counselors with knowledge and technique of sport psychology or exercise nutrition. Laboratories for special research projects in the field of sport science are also on this floor.
Rehabilitation and Training Zone

The 2nd floor is called the “Rehabilitation and training Zone”, where we support athletes in recovery from injuries or improvement of performance. It is important for athletes to make a rapid and safe recovery from injury. Doctors and athletic trainers work in cooperation and support successful rehabilitation. We also educate athletic Trainer’s knowledge and technique about sport medicine and physiology.
### Faculty of Health and Sport Sciences

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<thead>
<tr>
<th>Research Area / Field</th>
<th>Professor</th>
<th>Associate Professor</th>
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<th>Junior Assistant Professor</th>
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<td>J.Ohishi</td>
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<p>| <strong>/ Health &amp; Human Performance Studies</strong> | | | | |
| Health Education               | Y.Nozu          | S.Hashimoto         | C.Kataoka           |                           |
| Environmental Health           | K.Mizukami      |                     |                     |                           |
|                                 | F.Takeda        |                     |                     |                           |
|                                 | S.Kuno          |                     |                     |                           |
|                                 |                  |                     |                     |                           |
| Sport Physiology               | T.Nishiyasu     |                     |                     |                           |
|                                 | T.Takemasa      |                     |                     |                           |
| Sport Biochemistry             | H.Soya          |                     | M.Okamoto           | T.Matsui                  |
|                                 | H.Ohmori        |                     |                     |                           |
| Sport Nutrition                | K.Tokuyama      |                     | N.Omi               |                           |
| Sport Biomechanics             | N.Fujii         |                     | S.Koike             |                           |
| Applied Anatomy                | T.Kizuka        |                     | K.Adachi            |                           |
| Physical Fitness               | Y.Nabekura      |                     | S.Ono               |                           |
|                                 |                 |                     | Y.Enomoto           |                           |
| Health and Physical Fitness for Active Living | K.Tanaka      |                     | T.Okura             | T.Tsujimoto               |
|                                 | T.Nishijima     |                     |                     |                           |
|                                 | S.Maeda         |                     |                     |                           |
| Measurement and Evaluation of Sport | K.Watanabe     |                     |                     |                           |
|                                 | A.Shibata       |                     |                     |                           |
| Sport Medicine for Wellness    | N.Mukai         |                     |                     |                           |
|                                 | M.Takemura      |                     |                     |                           |
| Sport Medicine for Motor System| S.Miyakawa      |                     | T.Fukuda            |                           |
|                                 | H.Shibaki       |                     | Y.Warashina         |                           |
| Total                         | 19              | 11                  | 5                   | 4                         |</p>
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<td>Y.Watanabe</td>
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<td>Coaching in Sports Gymnastics</td>
<td>M.Ogata</td>
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<td>S.Tsubakimoto</td>
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<td>M.Homma</td>
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<td>H.Takagi</td>
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<td>Coaching in Volleyball</td>
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<td>Y.Nakanishi</td>
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<td>Coaching in Basketball</td>
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<td>Coaching in Rugby</td>
<td>Y.Yamada</td>
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<td>M.Suita</td>
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<td>Coaching in Racket &amp; Bat Sports</td>
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<td>Coaching in Judo</td>
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<td>K.Koda</td>
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<td>K.Masuchi</td>
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<td>Coaching in Kendo</td>
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<td>Coaching in Kyudo</td>
<td>H.Imura</td>
<td>T.Nabeyama</td>
<td>A.Kralik</td>
<td>M.Sakatani</td>
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<td>Outdoor Pursuits and Education</td>
<td>A.Sakamoto</td>
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<td>49</td>
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## Staff

**Faculty of Health and Sport Sciences**  
**School of Health and Physical Education**

### Joint Doctoral Program in Advanced Physical Education and Sports for Higher Education

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Main Works</th>
</tr>
</thead>
</table>
| **ARAMIYAKI Ai**                     | Assistant Professor, B.P.E., M.P.E. | 1. Development of e-learning lesson reflection system for Physical Education Teacher Education; Teacher’s behavior and children’s motivation in physical education  
KANEMOTO Fumihiro  
1. Assistant Professor, B.A., M.A., M.Sc., Ph.D.  
2. A History of Sport Policy in Post War United Kingdom  
KIKU Koichi  
1. Professor, B.E., M.E., Ph. D.  
2. Historical sociology of modern sport, political sociology of sport promotion.  
Topics of Sport Policy in Japan, Seibun-Do, 2011.  
KIKUSHO Yoichi  
1. Associate Professor, B.E., M.E., Ph.D.  
LEE Chanwoo  
1. Assistant Professor, B.E, M.P.E, Ph.D.  
MIKI Hiromi  
1. Associate Professor, B.E, M.P.E, Ph.D.  
2. Interpersonal perception in physical education and sport  
Career planning program for physical education major students at the University of Tsukuba: effects of a program of encouraging to move into action for their future job. Bull. Inst. Health & Sport Sci., Univ. of Tsukuba, 33: 47-58, 2010.  
MITABE Isamu  
1. Associate Professor  
2. Teacher Education, Lesson Study in Physical Education  
MIYAZAKI Akiyo  
1. Associate Professor  
2. Learning of Motor Skills in PE Classes, Olympic Education  
3. Possibility of improvement in running and overhead throwing abilities of high school students through regular physical education classes-The importance of fundamental movements practice for appropriate motor pattern-Journal of Physical Education, Health and Sport Sciences, 28 (2) : 11-23, 2009  
MURAKAMI Yusuke
1. Junior Assistant Professor
2. Approaches to Motor Skill Intervention in Children with Developmental Disorders

NAGAKOMI Shiro
1. Professor, B.P.E., M.P.E., Ph.D.
2. Clinical studies for mind and body in sport & physical education

NAKAZAWA Makoto
1. Associate Professor, B.P.E., M.P.E.
2. Marketing strategy in professional sports organizations

NARUSE Kazuya
1. Assistant Professor
2. Theory and execution of lifelong sport, Sport policy of local government

OHISHI Junko
1. Associate Professor, B.P.E., M.P.E., Ph.D.
2. History of Japanese martial arts (Budo), Diffusion and acceptance of Japanese martial arts

OKADE Yoshinori
1. Professor, M.P.E.
2. Curriculum theory in Physical Education

RAKWAL Randeep
1. Professor, Ph.D.
2. Emergency medicine; low-level gamma radiation and health using model systems; omics technology
3. PACAP38 and brain stroke using omics; grass/rice as a human model; genomics, proteomics and metabolomics

SAGA Hitoshi
1. Associate Professor, B.P.E., M.P.E.
2. Study on Leisure, Olympic Movement, Sport Marketing

SAITO Kenji
1. Professor, B.P.E., M.P.E., Ph.D.
2. Sport Law, Sport Policy, Sport Administration

SAITO Mayumi
1. Associate Professor, B.P.E., M.P.E.
2. Methodology of Adapted P.E. & Adapted Sports

SAKAI Toshinobu
1. Professor, B.P.E., M.P.E., Ph.D.
2. Japanese mentality as seen in its concept of swords, History of budo

SAKAI Yoshiro
1. Professor, M.A., Ph.D.
2. Self regulation training for health promotion and high performance

SANADA Hisashi
1. Professor, B.P.E., M.P.E., Ph.D.
2. History and Anthropology of the Olympic Games

SAWAE Yukinori
1. Associate Professor, B.P.E., M.P.E., Ph.D.
2. Supports of Movement Development for Children with Developmental Disorders

SHIMIZU Norihiro
1. Professor, B.P.E., M.P.E.
2. Management system for school physical education and community sports
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Other Information</th>
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</table>
| SHIMIZU Satoshi      | Professor, B.P.E., M.E., Ph.D. | 1. Body culture studies: Cultural and political studies on body movement  
| TAKAHASHI Yoshio     | Associate Professor, B.E., M.E. | 1. Business Administration of sport organization  
| YAMAGUCHI Taku       | Assistant Professor, B.P.E., M.P.S. | 1. Theoretical and practical study of humanitarian and social development through sport  
| YANAGISAWA Kazuo    | Professor, B.P.E., M.E. | 1. Community sport promotion, Sport association and social network  
3. Main Works (Publication & performance up to 2)

**ADACHI Kazutaka**
1. Associate Professor, Dr. Sci.
2. Morphology and function of the musculoskeletal system, Aging of walking, Kinesiological measurement by using ‘Kinect’

**AKAZAWA Nobuhiko**
1. Assistant Professor, Ph.D.
2. Sport Medicine

**ENOMOTO Yasushi**
1. Associate Professor
2. Endurance Performance and Energetics

**FIUJI Norihisa**
1. Professor, B.Eng., M.Eng., Ph.D.
2. Analysis and computer simulation in sport biomechanics

**FUKUDA Takashi**
1. Assistant Professor
2. Mechanism of a traumatic brain concussion in American football

**HONDA Yasushi**
1. Professor, B.H.S., M.D., M.P.H., Dr. P.H., Ph.D.
2. Environmental Epidemiology, Epidemiologic Methods

**KATAOKA Chie**
1. Assistant Professor, B.P.E., M.P.E., M.Ed., Ph.D.
2. School Health Education; Preventive Education of Youth Risk Behavior

**KIZUKA Tomohiro**
1. Professor, B.P.E., M.P.E., Ph.D.
2. Test and evaluation of physical performance and sports ability

**KOIKE Sekiya**
1. Associate Professor, B.Eng., M.Eng., Ph.D(Eng)
2. Sports Engineering, Sports Biomechanics

**KUBO Daisuke**
1. Junior Assistant Professor, Ph.D.
2. Anthropological studies of human brain anatomy

**KUNO Shinya**
1. Professor, B.P.E., M.P.E., M.D.
2. Aging and muscle characteristics, Health Policy

**MAEDA Seiji**
1. Professor, Ph.D.
2. Sports Medicine

**HASHIMOTO Sayuri**
1. Associate Professor, Ph.D.
2. Research of health exercise behavior and health counseling

**KATAOKA Chie**
1. Assistant Professor, B.P.E., M.P.E., M.Ed., Ph.D.
2. School Health Education; Preventive Education of Youth Risk Behavior

**KIZUKA Tomohiro**
1. Professor, B.P.E., M.P.E., Ph.D.
2. Test and evaluation of physical performance and sports ability

**KOIKE Sekiya**
1. Associate Professor, B.Eng., M.Eng., Ph.D(Eng)
2. Sports Engineering, Sports Biomechanics

**KUNO Shinya**
1. Professor, B.P.E., M.P.E., M.D.
2. Aging and muscle characteristics, Health Policy

**MAEDA Seiji**
1. Professor, Ph.D.
2. Sports Medicine

**KUNO Shinya**
1. Professor, B.P.E., M.P.E., M.D.
2. Aging and muscle characteristics, Health Policy

**MAEDA Seiji**
1. Professor, Ph.D.
2. Sports Medicine
MATSUI, Takashi
1. Ph.D.
2. The role of brain glycogen in exercise-enhanced human performance (endurance capacity and cognitive function)

MIYAKAWA Shunpei
1. Professor, M.D., Ph.D.

MIZUKAMI Katsuyoshi
1. Professor, MD, Ph.D.
2. Stress management, Mental health, Geriatric psychology, prevention of dementia

MUKAI Naoki
1. Associate Professor, MD, Ph.D.
2. Sport medicine (Orthopedics)

NABEKURA Yoshiharu
1. Professor, B.P.E., Ph.D.
2. Exercise physiology, Energy metabolism of exercise, Marathon

NISHIJIMA Takahiko
1. Professor, Ph.D, MS, BPE,
2. Statistics and Data science for Sport Performance and Motor Ability

NISHISHIGE Takeshi
1. Professor, B.Eng., M.E., Ph.D.
2. Exercise Physiology and Environmental Physiology

NOZU Yuji
1. Professor, B.P.E., Ph.D.
2. Youth risk behavior, Development of health education programs

OHMORI Hajime
1. Professor, B.A., M.P.E., Ph.D.
2. Effects of exercise on the physiological and metabolic functions of the brain, muscle and other peripheral tissues

OKAMOTO Masahiro
1. Assistant Professor, Ph.D
2. Exercise-induced beneficial effects on brain, especially, learning and memory related hippocampal neurogenesis and function.
3. Mild exercise increases dihydrotestosterone in hippocampus providing evidence for androgenic mediation of neurogenesis.

OKURA Tomohiro
1. Associate Professor, B.P.E., M.P.E., Ph.D.
2. Development of health-care programs for active and successful aging in older people, Measurement and evaluation of health-related physical fitness in middle-aged and older adults

OMI Naomi
1. Associate Professor, Ph.D, National Registered Dietitian
2. Nutrition assessments and nutritional support for athletes, Effect of exercise (physical activity) and nutrient intakes (dietary habits) on bone metabolism, Prevention of osteoporosis, Nutritional education for young people

ONO Seiji
1. Associate Professor, B.P.E., M.P.E., Ph.D.
2. Visual oculomotor systems and motor control
AIDA Hiroshi
1. Professor
2. Methodology of Team Sports handball

AKIYAMA Nakaba
1. Assistant Professor
2. Coaching Methodology in volleyball

ANDO Shintaro
1. Assistant Professor, B.P.E., M.P.E.
2. Theory of table tennis

ARITA Yuki
1. Associate Professor, B.P.E., M.P.E.
2. Coaching of kendo

ASAI Takeshi
1. Professor, B.P.E., M.P.E., Ph.D.
2. Sports Coaching, Sciences and Technology.

FUJIMOTO Hajime
1. Assistant Professor
2. Methodology of Team Sports handball Development of off-ense and defense group tactic

FURUKAWA Takuo
1. Associate Professor, B.P.E., M.P.E.
2. Theory and strategy of rugby coaching, Theory and methodology of sport training

HASEGAWA Kyonao
1. Professor B.P.E., M.P.E.
2. Coaching of gymnastics for all

HIRAYAMA Motoko
1. Associate Professor, B.P.E., M.P.E.
2. Methodology of Dance

HOMMA Miwako
1. Professor, B.P.E., M.P.E., Ph.D.
2. Coaching and training in synchronized swimming

IMURA Hitoshi
1. Professor, M.P.E.
2. Effect of outdoor pursuits

KANAHORI Tetsuya
1. Junior Assistant Professor, Ph. D.
2. Theory and methodology of baseball coaching

KANAYA Mariko
1. Professor, B.P.E., M.P.E., Ph.D.
2. Technique in gymnastics

KAWAMURA Takashi
1. Associate Professor, B.P.E., M.P.E.
2. Theory of Sports Coaching, Theory of Sports Intelligence

KAWABATA Yuki
1. Associate Professor, B.P.E., M.P.E.
KIGOSHI Kyonobu
1.Assistant Professor
2.Methodology of Individual Sports / Track & Field
3.Study in Athletics (Track & Field)

KIUCHI Atsushi
1.Professor, Ph.D.
2.Practical education-research of physical education and sport in college

KODA Kunihide
1.Professor, B.P.E.
2.System and construction of technique in kendo

KOIDO Masaaki
1.Assistant Professor
2.Theory and methodology of soccer coaching

KOMATA Koji
1.Professor, B.P.E., M.P.E.
2.Method of judo coaching

KRALIK Andrea
1.Junior Assistant Professor
2.The self motivation, effects on the performance among kyudo practicing university students

MASUCHI Katsuyuki
1.Associate Professor, B.P.E., M.P.E.

MATSUMOTO Tsuyoshi
1.Associate Professor, B.P.E., M.P.E.
2.Theory of coaching tactics

MITSUHASHI Daisuke
1.Associate Professor
2.Tennis Coaching studies

MOTOYA Satoshi
1.Assistant Professor, B.P.E., M.P.E.
2.Methodology of gymnastics for All
Present status of gymnastics in Germany -An example of sport and gymnastic school in Kiedaisch- . Japanese Journal of Sport Coaching, 4-1, 52-61. 2005

NABEYAMA Takahiro
1.Associate Professor, B.P.E., M.P.E.
2.Coaching of kendo

NAKAGAWA Akira
1.Professor, M.E. ph. D.
2.Rugby Coaching Studies

NAKAMURA Tsuyoshi
1.Associate Professor

NAKANISHI Yasumi
1.Associate Professor, B.P.E., M.P.E.
2.Coaching methodology in volleyball

NAKANO Misa
1.Junior Assistant Professor,MA (Physical Education)
2.Studies on the training and coaching of athletics

NAKAYAMA Masao
1.Associate Professor, B.P.E., M.P.E., PhD.
2.Coaching Soccer

NARA Takaaki
1.Assistant Professor
2.Research on pitching motion of professional baseball and an amateur baseball player

SAITO Taku
1. Assistant Professor
2. A study on morphological of exercise

SAKAMOTO Akihiro
1. Professor, M.P.E., M. Ed
2. Outdoor education, Outdoor experiential therapy

SAKATANI Mitsuru
1. Junior Assistant Professor, B.P.E., M.P.E.
2.1) Effect of Outdoor Education.2) Effect and safety measures of Sking.

SANO Atsushi
1. Professor, B.P.E., M.P.E., Ph.D
2. Phaenomenologial - morphological theory of sport movement
4. A phaenomenological morphological study about the structure of linguistic expression of sport technique (doctoral dissertation), University of Tsukuba.. 2013.

SENGOKU Yasuo
1. Assistant Professor, Ph.D
2. Training Science in Swimming

SHIMASAKI Tatsuya
1. Assistant Professor
2. Rugby Coaching Studies

SUITA Masashi
1. Assistant Professor, B.P.E., M.P.E.
2. Coaching methodology in badminton

TABE Yusuke
1. Junior Assistant Professor, BSc, M.P.E.
2. Sports Coaching and Psychology
TAKAGI Hideki
1. Professor, B.P.E., M.P.E., Ph.D.
2. Biomechanics and Hydrodynamics of Water Sports

TANIGAWA Satoru
1. Associate Professor, Ph. D.
2. Theory and methodology of sports training

TERAYAMA Yumi
1. Associate Professor, B.P.E., M.P.E.
2. Theory and Practice of Dance, Dance education
3. Teaching and viewpoints on “Improvised Expression” in the study of Bodily Expression and Creative Dance - Focusing on the 4 teachers who have been practitioners -. Research Journal of Japan Association of Physical Education for Women, 27, 21-38, 2011.
Generation process of creative dance in education - Signs of the change from “giving (given)” to “drawing out (drawn out)” class -. Japan Journal of Dance Education, 12, 5-18, 2010.

TSUBAKIMOTO Shozo
1. Professor, B.P.E., M.S.
2. Coaching theory and pedagogy of swimming

UCHIYAMA Haruki
1. Professor, B.P.E., M.E., Ph. D.
2. Philosophy of coaching, Principles of competitive sports, Theory of performance in basketball

WATANABE Hitoshi
1. Assistant Professor, M.P.E.
2. Theory of Outdoor Pursuits and Outdoor Education

WATANABE Yoshio
1. Professor, B.P.E., M.P.E.
2. Seminar in Theory of Artistic Gymnastics (M)
3. Theory of artistic gymnastics

YAMADA Eiko
1. Assistant Professor
2. Handball Coaching / Study proper technical and tactical trainings for various ages in handball

YAMAGUCHI Kaori
1. Associate professor
2. Sport methodology in judo

YOSHIDA Kenji
1. Associate Professor, B.P.E., M.P.E
2. Theory of Basketball Coaching

ZUSHI Koji
1. Professor, Ph. D.
2. Theoretical construction and a methodological development for sports training and the coaching
Campus Map and Location

Tsukuba Campus  http://www.tsukuba.ac.jp/english/access/tsukuba_access.html
Tokyo Campus  http://www.tsukuba.ac.jp/english/access/bunkyo_access.html

/Tsukuba Campas

- National Center for Teacher’s Development
- Public Works Research Institute
- University of Tsukuba
- Tsukuba University of Technology (Hearing Impaired Division)
- Shibasaki
- University of Tsukuba (Chuo-guchi)
- Interchange (Sakura-Tsuchiura)
- Joban Expressway Interchange (Tsuchiura-Kita)
- Joban Expressway Interchange (Yatabe)
- Meteorological Research Institute
- National Institute for Environmental Studies
- Tsukuba Expo Center
- JAXA Tsukuba Space Center
- AIST Tsukuba Headquarters
- Interchange (Sakura-Tsuchiura)
- Interchange (Sakura-Tsuchiura)
- Tsukuba Express Line
- Tsukuba Center (Bus Terminal)
- Nishi Odori
- Gakuen-Higashi Odori
- University of Tsukuba (Chuo-guchi)
- Arakawaoki Interchange
- Shibasaki Interchange (Sakura-Tsuchiura)