


Faculty of Health and Sport Sciences *2016*

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 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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University Information <http://www.tsukuba.ac.jp>

/ 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

Campus Area	2,465,247m ² , 4 km North to South, 1 km West to East.	
Staff	President 1, Vice Presidents 9	
	Professors 642, Associate Professors 557	
	Assistant Professors 284	
	Research Associates 304, Others and Administrative staff	
Students	Total (Male / Female)	
	Undergraduates	9778 (5948 / 3830)
	Graduates	6632 (4364 / 2268)

-As of May 1, 2013-



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. and 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 A.I.P.S. (International Sport Journalist Association).



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

Research System

Faculty of Health and Sport Sciences

Physical Education and Sport Studies

Health and Human Performance Studies

Coaching Studies

Advanced Research Initiative for Human High Performance

Human Energy and Health Section

Competitive Sports Section

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

in details. The scope of the Coaching Studies includes theory of coaching, movement theory of sport, general gymnastics, athletic gymnastics, track and field, swimming, dance, outdoor education, basketball, volleyball, handball, soccer, rugby, racket-bat sports (baseball, table tennis, badminton, and tennis), judo, kendo, and kyudo.

/ Master's Program (2 years)

The Master's Program in Health and Sport Sciences aim to train specialized professionals able to handle and solve various sports, physical education, and health problems in the light of the development of science and technology. The program offers students following courses and research fields. The students enroll in one of the following courses; and one of the research fields. Sport Culture, Management and Politics, Health and Sport Education, Health and Fitness, Athletic Conditioning, and Sport Coaching.

Research fields include Philosophy of PE and Sport, History of PE and Sport Anthropology, Sport Sociology, Theory of Budo, Management of PE and Sport, Sport Policy, Sport Industry, Sport Pedagogy, Theory of Adapted PE and Sports, Sport Psychology, Health Education, Environmental Health, Sport Physiology, Sport Biochemistry, Sport Nutrition, Physical Fitness, Health and Fitness for Active Living, Measurement and Evaluation of Sport, Sport Medicine for Wellness, Sport Medicine for Motor System, Sport Biomechanics, Applied Anatomy, General Theory of Coaching and Training, Theory of Movement, Coaching in Gymnastics, Coaching in Sports Gymnastics, Coaching in Track & Field, Coaching in Swimming, Coaching in Volleyball, Coaching in Basketball, Coaching in Handball, Coaching in Soccer, Coaching in Football, Coaching in Rugby, Coaching in Racket and Bat Sports, Coaching in Judo, Coaching in Kendo, Coaching in Kyudo, Outdoor Pursuits and Education, and Coaching in Dance Studies.

Mater's program in Sport and Health Promotion aims for cultivation of advanced experts who can promote sport and health in a community or organization, with the basic philosophy multiplier effects concerning sport and health.

This program consists of two courses and each course contains two fields. Sport Promotion course contains two fields, Sport Promotion and Sport Management. In Sport Promotion, we consider philosophy, goal, content, issue and process of sport promotion. In Sport Management, we consider management of sports organization, sport club and top sport. Health Promotion course has two fields, Health Promotion and Health Management. In Health Promotion, we consider policy issues, and a design of social planning and community systems for health. In Health Management, we consider stress management as health behavior, and study how we can develop nature, method and systemization of health counseling and mental health that adapt to various life styles and life stages.

The Master's program in Education has 2 majors: School Leadership and Secondary Education. The Secondary Education major includes Health and Physical Education course. In the course, theoretical and practical instructions are offered for training prospective HPE teachers playing leading roles in secondary education.

/ 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:

- Persons with high managerial and leadership skills with creativity and innovation for the international sporting stage (IOC, IPC, IFs, WADA, UN, UNOSDP, International NGOs etc).
- 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://tias.tsukuba.ac.jp/>

/ 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.

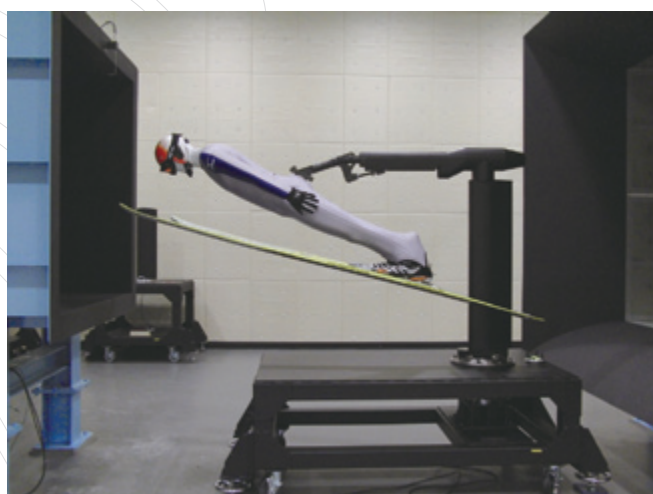
/ Swimming Flume

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 (Gettlingen 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 Leiptiz (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

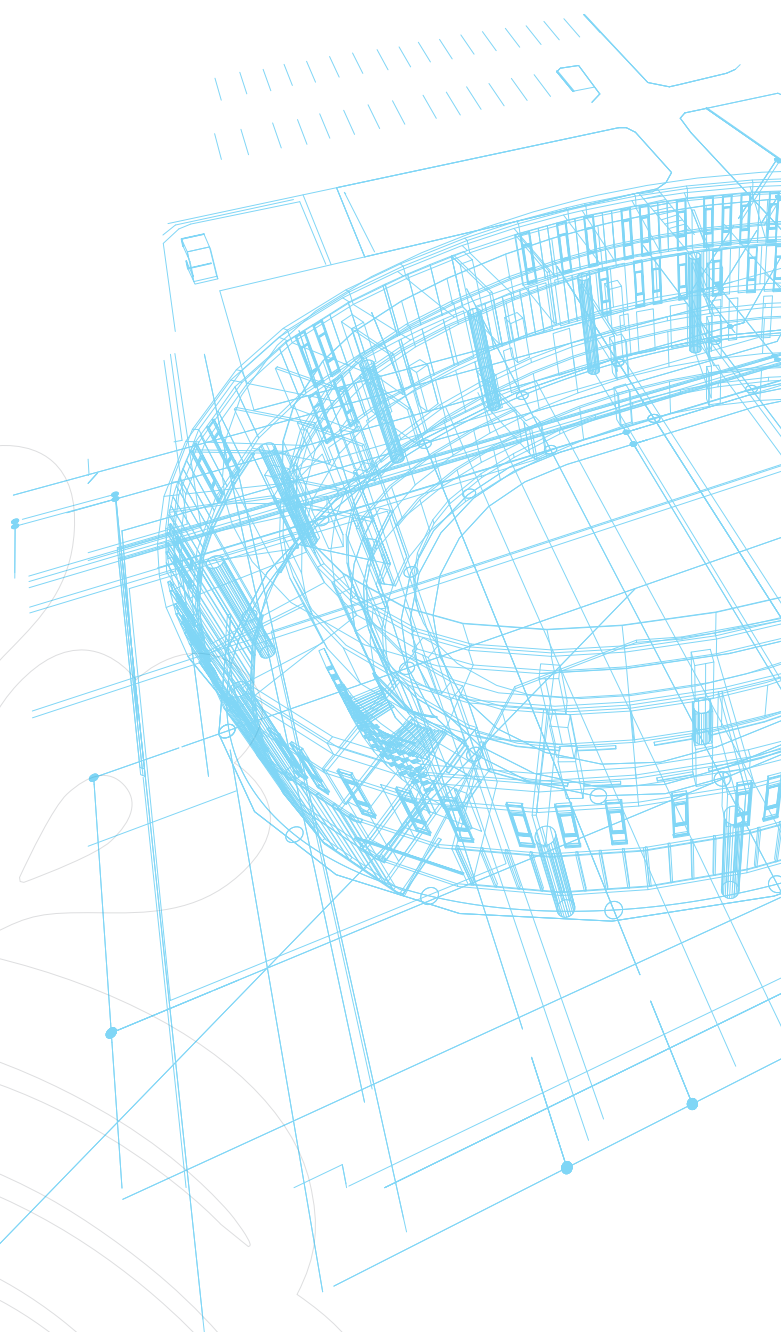
The 1st floor is called the "Experimental Zone", where we investigate performance of athletes from a biomechanical perspective and educate coaches in knowledge and skills of biomechanics and coaching.

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

Research Area / Field	Professor	Associate Professor	Assistant Professor	Junior Assistant Professor
/ Physical Education & Sport Studies				
Philosophy of PE and Sport	R.Rakwal	K.Fukasawa		A.Aramaki
History of PE and Sports	H.Sanada		T.Yamaguchi C.Lee	
Sport Sociology	K.Kiku S.Shimizu			
Theory of Martial Sports (Budo)	T.Sakai	J.Ohishi		
Management of PE and Sport	K.Yanagisawa N.Shimizu			
Administration and Finance of PE and Sport	K.Saito		K.Naruse F.Kaneko	
Leisure and Sport Industry		M.Nakazawa H.Saga Y.Takahashi		
Sport Pedagogy	Y.Okade	H.Miki E.Hasegawa A.Miyazaki		
Special Physical Education		I.Mitabe M.Saito Y.Sawae		Y.Murakami
Psychology of PE and Sport	S.Nakagomi Y.Sakairi		M.Kokubu	
Total	11	11	5	2

/ Health & Human Performance Studies

Health Education	Y.Nozu K.Mizukami F.Takeda S.Kuno	S.Hashimoto	C.Kataoka	
Environmental Health	Y.Honda K.Tagami			
Sport Physiology	T.Nishiyasu T.Takemasa			T.Takabayashi
Sport Biochemistry	H.Soya H.Ohmori		M.Okamoto T.Matsui	
Sport Nutrition	K.Tokuyama	N.Omi		
Sport Biomechanics	N.Fujii	S.Koike K.Adachi		D.Kubo
Applied Anatomy		S.Ono		
Physical Fitness	T.Kizuka Y.Nabekura	Y.Enomoto		
Health and Physical Fitness for Active Living	K.Tanaka	T.Okura		T.Tsujimoto
Measurement and Evaluation of Sport	T.Nishijima			
Sport Medicine for Wellness	S.Maeda	K.Watanabe A.Shibata	N.Akazawa	
Sport Medicine for Motor System	S.Miyakawa H.Shiraki	N.Mukai M.Takemura	T.Fukuda	Y.Warashina
Total	19	11	5	4

Research Area / Field	Professor	Associate Professor	Assistant Professor	Junior Assistant Professor
/ Coaching Studies				
General Theory of Coaching and Training	K.Zushi A.Kiuchi	T.Matsumoto T.Kawai S.Tanikawa T.Nakamura		
Theory of Movement	A.Sano		S.Motoya	
Coaching in Gymnastics	K.Hasegawa		T.Saito	
Coaching in Sports Gymnastics	Y.Watanabe	M.Kanaya	K.Kigoshi	M.Nakano
Coaching in Track & Field	M.Ogata	K.Ohyama Byun	Y.Sengoku	
Coaching in Swimming	S.Tsubakimoto M.Homma H.Takagi			
Coaching in Volleyball		Y.Nakanishi	N.Akiyama	A.Orikasa
Coaching in Basketball	T.Otaka H.Uchiyama H.Aida	K.Yoshida		
Coaching in Handball			E.Yamada H.Fujimoto N.R.Janos M.Koido T.Shimasaki T.Nara M.Suita S.Ando	
Coaching in Soccer	T.Asai	M.Nakayama		Y.Tabei
Coaching in Rugby	A.Nakagawa	T.Furukawa		
Coaching in Racket & Bat Sports	Y.Yamada	D.Mitsuhashi T.Kawamura		T.Kanahori
Coaching in Judo	K.Komata	H.Okada K.Yamaguchi K.Masuchi T.Nabeyama Y.Arita		T.Ono
Coaching in Kendo	K.Koda			
Coaching in Kyudo				A.Kralik
Outdoor Pursuits and Education	H.Imura A.Sakamoto		H.Watanabe	M.Sakatani
Dance Studies		M.Hirayama Y.Terayama		K.Park
Total	19	19	14	8
Overall Total	49	41	24	14

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

Master's Program in Health and Sport Sciences
Master's Program in Sport and Health Promotion
Joint Master's Program in International Development and Peace through Sport
Doctoral Program in Physical Education, Health and Sport Sciences
Doctoral Program in Coaching Science
Doctoral Program in Sports Medicine
Joint Doctoral Program in Advanced Physical Education and Sports for Higher Education
Sports and Physical Education Center
Advanced Research Initiative for Human High Performance

Chair NAKAGAWA Akira
Provost SANADA Hisashi
Associate Provost SANO Atsushi
Associate Provost KIZUKA Tomohiro
Chair UCHIYAMA Haruki
Chair MIZUKAMI Katsuyoshi
Chair SHIMIZU Satoshi
Chair NISHIYASU Takeshi
Chair AIDA Hiroshi
Chair TOKUYAMA Kumpei
Chair TAKAGI Hideki
Director YAMADA Yukio
Director SOYA Hideaki

// Area / Field 1

Physical Education and Sport Studies

Name

1. Title, Degree

2. Research Theme

3. Main Works (Publication & performance up to 2)

ARAMAKI Ai

1. Junior Assistant Professor, B.P.E., M.P.E.
2. Philosophy of Sport, Olympic Studies
3. The Olympic Legacy: Focusing on Candidature Files and Related Materials for the Games of the XXX Olympiad in 2012, Japan J. Phys. Educ. Hlth. Sport Sci. 58(1), 1-17, 2013.

FUKASAWA Koyo

1. Associate Professor
2. Semantic generation and expanding experience in sport, Publicness and solidarity in sport, Integrity of sport
3. Koyo Fukasawa (2014) The Background and Condition for Respect in Athletics from the Viewpoints of Kant's Notions. Sport Studies, 25: 9-26.
Koyo Fukasawa (2014) The Potentiality of Empathy with Others in Competitive Sport: A Suggestion from Nishida's 'Pure Experience' and 'I' and 'Thou'. International Journal of Sport and Health Science, 12: 47-52.

HASEGAWA Etsushi

1. Associate Professor, M.P.E., M.E.
2. Development of e-learning lesson reflection system for Physical Education Teacher Education; Teacher's behavior and childrens' motivation in physical education
3. Effects of viewing exemplar physical education classes on a PETE program. Bulletin of Institute of Health and Sport Sciences, the University of Tsukuba 33 : 25-34, 2010.
Theory of teaching method in English-speaking countries. In Japanese Society of Sport Education(eds), Present of pedagogy of physical education. Tokyo: Sobunkikaku, pp75-90, 2011.

KANEKO Fumihiko

1. Assistant Professor, B.A., M.A., M.Sc., Ph.D.
2. A History of Sport Policy in Post War United Kingdom
3. Ozaki, M. and Kaneko, F.: A History of Post-war Sport Policy in Japan and the United Kingdom. Hitotsubashi Journal of Social Studies, 43(2): 81-102, 2011.

KIKU Koichi

1. Professor, B.E., M.E., Ph. D.
2. Historical sociology of modern sport, political sociology of sport promotion.
3. The Contemporary Sport Studied to Jigoro Kano, Mineruva-Shobo, 2014.
Handbook of Sport Culture, Mineruva-Shobo, 2012.
Topics of Sport Policy in Japan, Seibun-Do, 2011.
The Japanese baseball spirit and professional ideology. Japan, Sport and Society: Tradition and change in a globalizing world. In Joseph Maguire and Masayoshi Nakayama (eds), Routledge, pp. 35-54, 2006.

KOKUBU Masahiro

1. Assistant Professor, B.S., M.S., Ph.D.
2. Human motor control and learning in sport and physical education, Human visuomotor system, Eye-hand coordination, Experimental psychology
3. The order of gaze shifts affects spatial and temporal aspects of discrete bimanual pointing movements. Experimental Brain Research 198(4), 501-511, 2009.
Interference effects between saccadic and key-press reaction times of volleyball players and nonathletes. Perceptual and Motor Skills 103(3), 709-716, 2006.

LEE Chanwoo

1. Assistant Professor, B.E, M.P.E, Ph.D.
2. History of Martial Arts and military sciences in pre-modern society. History of sport and physical education in Asia. Traditional sport and amusement.
3. The Korean Traditional Equestrian Feats that is handed down to Fujinomori Shrine in Japan. The Korean Journal of Physical Education, 53(4):17-27, 2014
Modern History of Sports & Physical Education. Douwashoin, 2013

MIKI Hiromi

1. Associate Professor, B.P.E., M.E., Ph.D.
2. Interpersonal perception in physical education and sport
3. Career planning program for physical education major students at the University of Tsukuba: effects of a program of encouraging students to set a direction for future job. Bull. Inst. Health and Sport Sci., University of Tsukuba 31:109-129, 2008.
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
3. Making lesson plan based on new standards. Tanaka, Tsutsui, Shirahata, K. (eds.) Gyosei. pp.140-151, 2011
Guideline for making standards and developing and improving assessment tool in physical education in elementary school. National Educational Institute for Policy Research. Kyouiku Shuppan. pp.65-70, 2011

MIYAZAKI Akiyo

1. Associate Professor
2. Learning of Motor Skills in PE Classes, Olympic Education
3. Possibility of improvement in running and overhand 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
A study on the Olympic Education in high-school regular classes-conducted with corporation of the university and attached high-school-. Bull. Inst. Health and Sport sci., Univ. Tsukuba 35:91-101, 2012

MURAKAMI Yusuke

1. Junior Assistant Professor
2. Approaches to Motor Skill Intervention in Children with Developmental Disorders
3. Efficiency of jumping movement in long rope skipping in children with autism spectrum disorders. *Japanese Journal of Adapted Sport Science*, 12(1):13-21, 2014.
Developmental levels of jumping movement in long rope skipping for children with developmental disorders. *Japan Journal of Physical Education, Health and Sport Sciences*, 56 : 507-522, 2011.

NAKAGOMI Shiro

1. Professor, B.P.E., M.P.E., Ph.D.
2. Clinical studies for mind and body in sport & physical education
3. Clinical Sport Psychology: Mental support for athletes. Dowashoin, Tokyo, 2013
Clinical Landscape Montage Technique. Seishinshobo, Tokyo, 2013

NAKAZAWA Makoto

1. Associate Professor, B.P.E., M.P.E.
2. Marketing strategy in professional sports organization
3. Team identification and postdisaster social well-being: The mediating role of social support. *Group Dynamics: Theory, Research, and Practice*, 19(1), 31-44.
Conceptualization and measurement of fan engagement: Empirical evidence from a professional sport context. *Journal of Sport Management*, 28: 399-417.

NARUSE Kazuya

1. Assistant Professor
2. Theory and execution of lifelong sport, Sport policy of local government
3. A study on the concept and philosophy of lifelong sports in Japan. *Journal of Policy for Physical Education and Sport* 21(1), 11-19, 2012. A transition of the budget for sports promotion about Japan after World War II. *Ibaraki Journal of Health and Sport Sciences* 27, 79-85, 2010

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
3. The study about a symbol of Geum " 劔 " in the books of Korean martial arts in the Choson Yi dynasty, *Research Journal of Budo*, 44-2, 65-81, 2011
The process of the acceptance of the characteristics of Japanese swords in Ji-Xiao-Xin-Shu " 紀效新書 ": Through a comparison between two editions of Ji-Xiao-Xin-Shu, *Research Journal of Budo*, 45-2, 87-107, 2012

OKADE Yoshinori

1. Professor, M.P.E.
2. Curriculum theory in Physical Education
3. Myrian Nunomura, Yoshinori Okade and Paulo Carrara; How much artistic gymnastics coach know about their gymnasts' motivation. *Science of Gymnastic Journal*. 4(2):27-37. 2012
Dorothee Alfermann, Guido Geisler, Yoshinori Okade: Goal orientation, evaluative fear, and perceived coach behavior among competitive youth swimmers in Germany and Japan. *Psychology of Sport and Exercise*. 14(3): 307_315. 2013

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
3. 2016 Tokyo Olympics legacy: Contribution to improve the quality and reputation of leisure and recreation, *J. of Leisure and Recreation Studies*, 60: 73-74, 2008
How can future editions of the Youth Olympic Games have the greatest impact on youth? *International Olympic Academy 11th International Session Proceedings*: 19-21, 2011.

SAITO Kenji

1. Professor, B.P.E., M.E., Ph.D.
2. Sport Law, Sport Policy, Sport Administration
3. Sport Policy, Seibundou, 2011.
Enactment of the Basic Act on Sport and issue in the future, *Japan Sports Law Association*, No.19, pp.6-34. 2012

SAITO Mayumi

1. Associate Professor, B.P.E, M.P.E.
2. Methodology of Adapted P.E. & Adapted Sports
3. Relationship between physical activity and motor performance in the Deaf school children. *Bull. Facul. Health & Sci., Univ. of Tsukuba* 36, 69-75. 2013.
Motor performance and visual functions of Japanese individuals with hearing impairment. *Japanese Journal of Adapted Sport Science*, 9 (1), 3-14. 2011.

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*
3. A Bilingual Guide to the History of Kendo. *Ski journal* : Tokyo. 2010.
Touken no Rekishi to Shisou (The History and Ideals of the Sword), *Nippon Budokan*: Tokyo. 2011.

SAKAIRI Yosuke

1. Professor, M.A., Ph.D.
2. Self regulation training for health promotion and high performance
3. Asian meditation and health. *The Oxford handbook of health psychology* (Friedman, H.S. Ed.), Oxford University Press, pp.848-859, 2011.
Development of the Two-dimensional Mood Scale for self-monitoring and self-regulation of momentary mood states. *Japanese Psychological Research*, 55(4), 1-12, 2013.

SANADA Hisashi

1. Professor, B.P.E., M.P.E., Ph.D.
2. History and Anthropology of the Olympic Games
3. Concept of the Intermediate Olympic Games at 1906: Continuity with the Past Olympics. *International Journal of Sport & Health Science*. 8: 7-14, 2010
Artistic Competitions at Greek Olympic Games in the 19th Century. *International Journal of Sport & Health Science*. 7: 23-30, 2009.

SAWAE Yukinori

1. Associate Professor, B.P.E., M.P.E., Ph.D.
2. Supports of Movement Development for Children with Developmental Disorders
3. The Educational Program to Promote Interest in Adapted Physical Activities for Students Majoring in Physical Education, *Japanese Journal of Adapted Sport Science*, 9(1), 35-45, 2011.
The Motor Regulation of a Child with Autistic Spectrum Disorders through the Interpersonal Movement Learning, *Proceedings: The 15th Symposium of Japanese Society for Adapted Physical Education and Exercise*, 2011.

SHIMIZU Norihiro

1. Professor, B.P.E., M.P.E.
2. Management system for school physical education and community sports
3. The ethnography of physical education teachers' beliefs. *Jpn. J. Management for Phys. Edu. and Sports*, 24, 25-46. 2010.
Methodological subjects on discipline of business management for physical education and sports. *Jpn. J. Management for Phys. Edu. and Sports*, 21, 3-14. 2007.

Staff^(2/5)

SHIMIZU Satoshi

1. Professor, B.P.E., M.E., Ph.D.
2. Body culture studies: Cultural and political studies on body movement
3. Shimizu S.: Tokyo - Bidding for the Olympics and the Discrepancies of Nationalism. The International Journal of The History of Sport, 31-6:601-617, Routledge, 2014.
Shimizu S.: The Significance of Koshien Baseball in Postwar Okinawa: A Representation of "Okinawa". The International Journal of The History of Sport, 29-17:2421-2434, Routledge, 2012.

TAKAHASHI Yoshio

1. Associate Professor, B.E., M.E.
2. Business Administration of sport organization
3. Nadeshiko: International migration of Japanese women in world soccer. Women, Soccer and Transnational Migration, Routledge, 102-116, 2014.
Moving with the bat and the ball: the migration of Japanese baseball labour, 1912-2009. Sport And Migration Borders, boundaries and crossings, Routledge, 46-55, 2011.

YAMAGUCHI Taku

1. Assistant Professor, B.P.E., M.P.S.
2. Theoretical and practical study of humanitarian and social development through sport
3. Researching and teaching the policy and concept of international development/ assistance through sport and activities of sport for development and peace: Education policy in Cambodia: fundamental proposals for diffusion of physical education. Japan J. Phys. Educ. Hlth. Sport Sci. 57: 297-313, 2012

YANAGISAWA Kazuo

1. Professor, B.P.E., M.E.
2. Community sport promotion, Sport association and social network
3. Relationship between the history of community life and the legitimacy of establishing a 'comprehensive community sports club'. Japanese Journal of Management for Physical Education and Sports, 23(1), 33-47. 2009.
Management and legacy of the 2002 FIFA World Cup Korea/Japan™. 2013 KAHPERD International Sport Science Congress. 355-358. 2013.

// Area / Field 2

Health and Human Performance Studies

Name

1. Title, Degree

2. Research Theme

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'
3. Development of Calibration Method for Motion Analysing System using Kinect(TM) and its Application to Measure Walking Parameters, Bull. Facul. Health & Sport Sci. Univ. of Tsukuba 36, 85-92, 2013.

AKAZAWA Nobuhiko

1. Assistant Professor, Ph.D
2. Sport Medicine
3. Influence of aerobic exercise training on post-exercise response of aortic pulse pressure and augmentation pressure in postmenopausal women. Front Physiol. (in press). Aerobic exercise training decreases plasma asymmetric dimethylarginine concentrations with increase in arterial compliance in postmenopausal women. Am J Hypertens, 27: 415-421, 2014.

ENOMOTO Yasushi

1. Associate Professor
2. Endurance Performance and Energetics
3. Enomoto Y, Suzuki Y, Yokozawa T, Okada, H: Running economy and gastrocnemius muscle length during running for Kenyan and Japanese elite distance runners. In: Vilas-Boas, JP et. al (eds), Biomechanics in Sports 29, Portuguese Journal of Sport Sciences, 11 (Suppl. 2), 483-485. 2011.
Enomoto, Y., Kadono, H., Suzuki, Y., Chiba, T., Koyama, K.: Biomechanical analysis of the medalists in the 10,000 metres at the 2007 World Championships in Athletics. New Studies in Athletics. 23 (3), 61-66. 2008

FUJII Norihisa

1. Professor, B.Eng., M.Eng., Ph.D.
2. Analysis and computer simulation in sport biomechanics
3. Comparison of support leg kinetics between side-step and cross-step cutting techniques. Sports Biomechanics, 13, 144-153, 2014.
Mechanical energy flow of the racquet holding arm in the tennis serve, focusing on the energy form. Japan J. Phys. Educ. Hlth. Sport Sci. 60, 177-195, 2015

FUKUDA Takashi

1. Assistant Professor
2. Mechanism of a traumatic brain concussion in American football
3. Epidemiology of collegiate American football injuries-longitudinal injury surveillance for 10 years, 1999 through 2008-. Football Science. 9:70-78, 2012
Effect on the running ability of players with/without American football equipment with a focus on muscle strength. Journal of Japanese society of clinical sports medicine. Vol.21, No.3, 678-686, 2013

HASHIMOTO Sayuri

1. Associate Professor, Ph.D.
2. Research of health exercise behavior and health counseling
3. Learning Structured Association Technique, kanekoshobo, 103-107, 141-145, 167-240, 2007.
The Effect of Adolescents' Image of Parents on Children's Self-Image and Mental Health, Child and Adolescent Mental Health, Vol.16 Issue4: 186-192, 2011.

HONDA Yasushi

1. Professor, B.H.S., M.D., M.P.H., Dr. P.H., Ph.D.
2. Environmental Epidemiology, Epidemiologic Methods
3. Gasparini A, Guo Y, Hashizume M, Lavigne E, Zanobetti A, Schwartz J, Tobias A, Tong S, Rocklöv J, Forsberg B, Leone M, De Sario M, Bell ML, Guo YL, Wu CF, Kan H, Yi SM, de Sousa Zanotti Stagliorio Coelho M, Saldiva PH, Honda Y, Kim H, Armstrong B. Mortality risk attributable to high and low ambient temperature: A multi-country study. The Lancet 2015 Jul 25;386(9991):369-75.
Heat-related mortality. In: Kovats et al. eds., Quantitative risk assessment of the effects of climate change on selected causes of death, 2030s and 2050s, World Health Organization, 2014.

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
3. Relationships Between Prevalence of Youth Risk Behaviors and Sleep Duration among Japanese High School Students. Jpn J Public Health., 61: 535-544, 2014.
Relationships between Youth Risk Behaviors and Norm-Consciousness and Resilience among Japanese High School Students. O. J. Prev. Med., 2: 306-311, 2012.

KIZUKA Tomohiro

1. Professor, B.P.E., M.P.E., Ph.D.
2. Test and evaluation of physical performance and sports ability
3. Gender effect on accuracy of Lifecorder EX during walking and running, Human Performance Measurement, 9, 9-17. 2012.
Improvement of new gyro-sensor and accelerometer device used for walking and running, International Journal of Sports and Health Science, 8, 95-104, 2010.

KOIKE Sekiya

1. Associate Professor, B.Eng., M.Eng., Ph.D(Eng)
2. Sports Engineering, Sports Biomechanics
3. (1). Sekiya KOIKE and Yuhei HARADA: Dynamic Contribution Analysis of Tennis-serve-motion in Consideration of Torque Generating Mode, Procedia Engineering, Vol.72, 97-102, 2014.
(2). Sekiya KOIKE and Tomohiro HASHIGUCHI: Dynamic Contribution Analysis of Badminton-smash-motion with Consideration of Racket Shaft Deformation (A Model Consisted of Racket-side Upper Limb and a Racket), Procedia Engineering, Vol.72, 496-501, 2014.

KUBO Daisuke

1. Junior Assistant Professor, Ph.D.
2. Anthropological studies of human brain anatomy
3. Kubo D, Kono RT, Kaifu Y. Brain size of Homo floresiensis and its evolutionary implications. Proceedings of the Royal Society B, 280: 20130338, 2013. DOI:10.1098/rspb.2013.0338. Kubo D, Kono RT, Suwa G. Endocranial proportions and postorbital morphology of the Minatogawa I and IV Late Pleistocene Homo sapiens crania from Okinawa Island, Japan. Anthropological Science, 120: 179-194, 2012. DOI:10.1537/ase.110804.

KUNO Shinya

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

MAEDA Seiji

1. Professor, Ph.D.
2. Sports Medicine
3. The influence of central arterial compliance on cerebrovascular hemodynamics: insights from endurance training intervention. J Appl Physiol. 119: 445-451, 2015.
Aerobic exercise training increases plasma Klotho levels and reduces arterial stiffness in postmenopausal women. Am J Physiol Heart Circ Physiol. 305: H348-H355, 2014.

Staff^(3/5)

MATSUI, Takashi

1. Ph.D.
2. The role of brain glycogen in exercise-enhanced human performance (endurance capacity and cognitive function)
3. Matsui et al.: Brain glycogen decreases during intense exercise without hypoglycemia: The possible involvement of serotonin. *Neurochem Res*, 40: 1333-1340, 2015
Matsui et al.: Brain glycogen supercompensation following exhaustive exercise. *J Physiol*, 590: 607-616, 2012 (J Physiol- Early Investigator Prize)

MIYAKAWA Shunpei

1. Professor, M.D., Ph.D.
2. Sports Medicine and Athletic Rehabilitation, Preventative Medicine and Biomechanics for Sports Injuries
3. Gender Differences of lower extremity kinematics during single leg landing: Issei Ogasawara, Yutaka Miyana, Hitoshi Shiraki, Naoki Mukai, Masahiro Takemura, Takashi Yasojima, Shumpei Miyakawa. *Tairyoku Kagaku*, 55: 403-411, 2006.
EXTREMITY MUSCLES DURING ISOKINETIC TESTING OF THE SHOULDER JOINT: Park Siyoung, Miyakawa Shumpei, Shiraki Hitoshi, *Tairyoku Kagaku*, 57: 101-110, 2008.

MIZUKAMI Katsuyoshi

1. Professor, MD, Ph.D
2. Stress management, Mental health, Geriatric psychology, prevention of dementia
3. Long-term mild-intensity exercise regimen preserves prefrontal cortical volume against aging. *Int J Geriatr Psychiatry*, 30(7):686-694, 2015
Influences of pneumonia complication on the prognosis in patients with autopsy confirmed Alzheimer's disease, dementia with Lewy bodies, and vascular dementia. *Psychogeriatrics* 2015 (in press).

MUKAI Naoki

1. Associate Professor, MD., Ph.D
2. Sport medicine (Orthopedics)
3. Chan of cortical bone after ovariectomy at beagles. *J. Jpn. Soc. Bone Morphom.*, 8:159-163, 1998.
The change of bone metabolism markers associated with long-distance running. *Jpn. J. Phys. Fitness Sports Med.*, 48, 179-186. 1999.

NABEKURA Yoshiharu

1. Professor, B.P.E., Ph.D.
2. Exercise physiology, Energy metabolism of exercise, Marathon
3. Effect of stroke rate on energy expenditure during rowing. *J. Phys. Educ. Hlth. Sport Sci.*, 59, 263-274, 2014
Changes in Aerobic and Anaerobic Energy Supply during 800-m Running. *Res. Quart. For Athletics*, 91, 14-22, 2012

NISHIJIMA Takahiko

1. Professor, Ph.D, MS, BPE,
2. Statistics and Data science for Sport Performance and Motor Ability.
3. Relationships between secular change in physical fitness and exercise and sports activities in Japanese youth. *International Journal of Sport and Health Service*, 1(1), 110-118. 2003.
Secular change of physical and motor ability in Japanese youth in 1964-97. *International Journal of Sport and Health Science*, 1(1), 164-170. 2003.

NISHIYASU Takeshi

1. Professor, B.Eng., M.E., Ph.D.
2. Exercise Physiology and Environmental Physiology
3. Modulation of the control of muscle sympathetic nerve activity during incremental leg cycling. *Journal of Physiology*, 586(11): 2753-66. 2008.
Comparison of hyperthermic hyperpnea elicited during rest and submaximal, moderate intensity exercise. *Journal of Applied Physiology*, 104(4): 998-1005. 2008.

NOZU Yuji

1. Professor, B.P.E., Ph.D.
2. Youth risk behavior, Development of health education programs
3. Relative Influence of Self-Esteem and Norm-Consciousness on Prevalence of Youth Risk Behavior among Japanese High School Students *School Health*, 6:6-11, 2010.
Nationwide survey of students' health learning and guardians' expectations for school health education classes in Japan. *Jpn. J. School Health*, 49: 280-295, 2007.

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
3. Effect of taurine supplementation on the alterations in amino acid content in skeletal muscle with exercise in rat. *J. Sports Sci. Med.*, 10 : 306-314, 2011
Low-frequency isometric training, 1-day of training every 2 weeks, increases muscle strength in untrained subjects. *Adv. Exerc. Sports Physiol.*, 16:-5, 2010.

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. *Proc Natl Acad Sci USA*, 109: 13100-13105, 2012.
Reduction in paracrine Wnt3 factors during aging causes impaired adult neurogenesis. *FASEB J*, 10: 3570-3582, 2011.

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
3. Ground reaction force in sit-to-stand movement reflects lower limb muscle strength and power in community-dwelling older adults. *International Journal of Gerontology* 9:111-118, 2015.
Physical fitness, physical activity, exercise training and cognitive function in older adults. *J Phys Fitness Sports Med* 2: 275-286, 2013.

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
3. Modulation of bone mass and turnover in growing rats by voluntary weight-bearing exercise and glucose supplementation. *J. Nutr. Sci. Vitaminol.*, 44:409-421. 1998.
Influence of food restriction combined with voluntary running on bone morphology and strength in male rats. *Calcif. tissu. Int*, 2013
The Effect of Different Amounts of Calcium Intake on Bone Metabolism and Arterial Calcification in Ovariectomized Rats. *J Nutr Sci Vitaminol*, 59:29-36, 2013.

ONO Seiji

1. Associate Professor, B.P.E., M.P.E., Ph.D.
2. Visual oculomotor systems and motor control
3. The effects of smooth pursuit adaptation on the gain of visuomotor transmission in monkeys. *Frontiers in System Neuroscience* 119, 1-11, 2013. Role of MSTd extraretinal signals in smooth pursuit adaptation. *Cerebral Cortex* 22(5), 1139-1147, 2012

SHIBATA Ai

1. Associate Professor, Ph.D.
2. Health Promotion, Health and Behavioral Epidemiology, Applied Exercise Science
3. Identifying prevalence, determinants, and effective intervention strategies of physical activity and sedentary behavior among middle-aged and older adults
Developing effective programs and disseminative strategies for long-term care prevention (e.g. exercise programs for improving physical function and musculoskeletal disorders)

SHIRAKI Hitoshi

1. Professor, B.P.E., M.P.E.
2. Sports medicine (Athletic training, Athletic rehabilitation)
3. Emg analysis of upper extremity muscles during isokinetic testing of the shoulder joint. *Jpn. J. Phys. Fitness Sports Med.* 57: 101-110, 2008.
Frontal-plane knee displacement index as a screening tool for risk of anterior cruciate ligament injury. *Jpn. J. Phys. Fitness Sports Med.* 57: 553-562, 2008.

SOYA Hideaki

1. Professor, B.E., M.P.E., Ph.D.
2. Beneficial exercise effects on brain and physical fitness and their common mechanism
3. Brain glycogen decreases during prolonged exercise. *J Physiol* 589:3383-3393, 2011.
Neuronal activity drives localized blood-brain-barrier transport of serum insulin-like growth factor-I into the CNS. *Neuron*, 67: 834-846, 2011.

TAGAMI Kazumi

1. Professor, B.P.E., Ph.D.
2. Health problems during sports and the prevention
3. Koutarou Suzuki, and Kazumi Tagami (2005) Voluntary wheel-running exercise enhances antigen-specific antibody producing splenic B cell response and prolongs IgG half-life in the blood. *European Journal of Applied Physiology* 94(5-6) 514-519, 2005.
Kazumi Tagami, Izumi Nagata, Keisuke Sueki (2014) Estimated environmental radionuclide transfer and deposition into outdoor swimming pools. *Journal of Environmental Radioactivity* 136: 30-35.

TAKABAYASHI Toshiyuki

1. Junior Assistant Professor
2. Exercise physiology

TAKEDA Fumi

1. Professor, B.A., M.P.H., Ph.D.
2. Health and psychosocial environment, Occupational health
3. How Possibly Do Leisure and Social Activities Impact Mental Health of Middle-Aged Adults in Japan?: An Evidence from a National Longitudinal Survey. *PLOS ONE*, 10(10), e0139777, 2015.

TAKEMASA Tohru

1. Professor, Ph.D., D. Med. Sci.
2. Exercise physiology of skeletal muscle
3. Shin Fujimaki, Ryo Hidaka, Makoto Asashima, Tohru Takemasa, Tomoko Kuwabara: Wnt protein-mediated satellite cell conversion in adult and aged mice following voluntary wheel running. *J Biol Chem.*, 289: 7399-7412, 2014.
Takaaki Abe, Yu Kitaoka, Dale Kikuchi, Kohei Takeda, Osamu Numata, and Tohru Takemasa: High-intensity interval training-induced metabolic adaptation coupled with an increase in Hif-1 α and glycolytic protein expression. *Journal of Applied Physiology*, 2015 Oct 1:jap.00499.2015. doi: 10.1152/jap.00499.2015. [Epub ahead of print]

TAKEMURA Masahiro

1. Associate Professor, B.P.E., M. Phty (sports).
2. Sports physiotherapy, Sports injury prevention, Video analysis of sports injury
3. Association of ground hardness with injuries in rugby union. *Br. J. Sports Med.*, 41: 582-587, 2007.
Injury characteristics in Japanese collegiate rugby union through one season. *Football Science*, 6: 39-46, 2009

TANAKA Kiyoji

1. Professor, B.A., M.A., M.S., Ph.D.
2. Health science for successful aging, Weight reduction for obesity
3. Target value of intra-abdominal fat area for improving coronary heart disease risk factors. *Obesity Research* 12: 695-703, 2004. Health benefits associated with exercise habituation in older Japanese men. *Aging Clinical and Experimental Research* 16: 53-59, 2004.

TOKUYAMA Kumpei

1. Professor, B.P.E., M.P.E., Ph.D.
2. Nutrition and Metabolism of Exercise
3. Effect of exercise performed before or after breakfast on 24h fat oxidation. *Metabolism*. 62:793-800, 2013.
Algorithm for transient response of whole body indirect calorimeter: deconvolution with a regularization parameter. *J Appl Physiol* 106: 640-650, 2009.

TSUJIMOTO Takehiko

1. Junior Assistant Professor

WARASHINA Yuki

1. Junior Assistant Professor, B.P.E., M.P.E.
2. Conditioning and injury prevention in badminton
3. Descriptive epidemiology of shoulder pain in Japanese badminton players. *Journal of RESEARCH IN EXERCISE EPIDEMIOLOGY* 17(1): 29-36, 2015. 03

WATANABE Koichi

1. Associate Professor, M.D.
2. Sport internal medicine
3. The utility of the condition check sheets during altitude training and the difference of the physical condition by experience. *The journal of Japanese Society of Clinical Sports Medicine* 19(1), 20-28, 2011.

Staff^(4/5)

// Area / Field 3 Coaching Studies

Name

1. Title, Degree

2. Research Theme

3. Main Works (Publication & performance up to 2)

AIDA Hiroshi

1. Professor
2. Methodology of Team Sports handball
3. Individual offense and defense tactics at the goal: a qualitative study based on the narratives of goalkeepers and shooters who excelled at the international level. Japan J. Phys. Educ. Hlth. Sport Sci. 53: 61-74, 2008.

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
3. A biomechanical study on movement of forehand top spin stroke in table tennis. International Journal of Table Tennis Sciences, 3, 172-173, 1995.
A study on tactics of doubles matches in table tennis. Bull. Sport Methodol., Univ. of Tsukuba, 13, 1-8, 1997.

ARITA Yuji

1. Associate Professor, B.P.E., M.P.E.
2. Coaching of kendo
3. The Creation of 'Budo' (the Way of Force) and 'Kendo' (the Way of the Sword): The Transition from 'Gekken' (Geki-ken) and 'Kenjutsu' to 'Kendo' Regarding the Lecture Records of Hiromichi Nishikubo. Ibaraki Journal of Health and Sport Science, 27, 1-23, 2010.
A Practical Deliberation on the Application of Fumikomi After Learning Okuri-Ashi for Kendo Beginners. Res. J. Budo, 44(3), 107-119, 2012.

ASAI Takeshi

1. Professor, B.P.E., M.P.E., Ph.D.
2. Sports Coaching, Sciences and Technology.
3. Flow structure of knuckling effect in footballs, Journal of Fluids and Structures, 27, 727-733, 2011.
Fundamental aerodynamics of a new volleyball, Sports Technology, 3 (4), 235-239, 2012.

FUJIMOTO Hajime

1. Assistant Professor
2. Methodology of Team Sports handball Development of offense and defense group tactic
3. Criteria for offensive power in university women's handball: Longitudinal analysis of 16 years of scores. Research Society of Sports Performance 1:258-216, 2009
Offense training. NTS 2011 Instruction textbook for handball players, Japan Handball Association, 6-16, 2011

FURUKAWA Takuo

1. Associate Professor, B.P.E., M.P.E.
2. Theory and strategy of rugby coaching, Theory and methodology of sports training
3. Game Aspect of Sevens Rugby at World Top-level in Recent Years: Examination through Comparison with Fifteen-a-side Rugby. Football Science, 9, 25-34, 2012.

HASEGAWA Kiyonao

1. Professor B.P.E., M.P.E.
2. Coaching of gymnastics for all
3. Balance board exercise for elderly women aimed at acquisition of fall avoidance capability. Taiikugaku kenkyu (Japan Journal of Physical Education, Health and Sport Sciences). 707-720, 2013.
My view of coaching: Possibility of coaching in non-competitive sports. The Japan Journal of Coaching Studies. 121-126, 2012.

HIRAYAMA Motoko

1. Associate Professor, B.P.E., M.P.E.
2. Methodology of Dance
3. The rite of spring" preformed and directed at The New National Theater, Tokyo November. 2008, and awarded The Ministry of Education, Culture, Sports, Science and Technology's Art Encouragement Prize for New Artists (Host: Ministry of Culture)"Revelation" invited by Boloshoi Theater Ballet for directing and choreography. Mar. 2006.

HOMMA Miwako

1. Professor, B.P.E., M.P.E., Ph.D.
2. Coaching and training in synchronized swimming
3. Simulation Analysis of Lift in Synchronized Swimming. Journal of Aero Aqua Bio-mechanisms_Vol.3 No.1 Special Issue on Fifth International Symposium on Aero Aqua Bio-Mechanisms, 51-56, 2013.
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IMURA Hitoshi

1. Professor, M.P.E.
2. Effect of outdoor pursuits
3. The Origin of Outdoor Education in Japan. Japan Outdoor Education Journal, 10-1: 85-97, 2006.
Historical Background and Meaning "Outdoor Education" and Its First Use in Japan. Japan Outdoor Education Journal 10-1: 99-111, 2006.

KANAHORI Tetsuya

1. Junior Assistant Professor, Ph. D.
2. Theory and methodology of baseball coaching
3. Analysis of objective viewpoint of well-experienced baseball coach in evaluation of hitting motion using kinematics index. Japan Journal of Physical Education, Health and Sport Sciences, 59: 133-147, 2014. Coaching points of baseball hitting from guidance books published in Japan: Focus on the target parts of coaching in movement phase. The Japan journal of Coaching Studies, 25(2): 149-156, 2012.

KANAYA Mariko

1. Associate Professor, B.P.E., M.P.E.
2. Technique in gymnastics
3. Mariko Kanaya: Movement problem in Artistic gymnastics_ focused on "Yurchenko" on Vault -, Waset 2013 (International Conference on physical Education and Sport Science), Paris, France, 2013
Mariko Kanaya: A study on the evaluation methods of the skill acquirement in artistic gymnastics., APCOCS2014 (Asian-Pacific Conference on Coaching Science), Sapporo, Japan, 2014

KAWAI Toshinobu

1. Associate Professor, B.P.E., M.P.E.
2. Theory of Sports Coaching, Theory of Sports Intelligence.
3. The Strategic Intelligence Activities of the Japanese Olympic Committee (JOC) for the 20th Olympic Winter Games, Torino 2006. Japan J. Sport Coaching, 4(2): 82-89, 2006.
Study on the international competitive level of Japanese winter sport: View from the "Medal Share" in the Winter Olympic Games. Bull. Inst. Health & Sport Sci., University of Tsukuba, 29: 5-52, 2006.

KAWAMURA Takashi

1. Associate Professor, B.P.E., M.P.E.
2. Biomechanics of baseball, Baseball coaching comparison of kinematics of upper limb motion in the baseball batting between high and low groups in the bat speed. Japan J. Phys. Educ. Hlth. Sport Sci. 53: 423-438, November, 2008.
3. The control ability of baseball pitchers in games. Bulletin of Sport and Physical Education Center of University of Tsukuba. 26: 15-21, 2004.

KIGOSHI Kiyonobu

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
3. Effects of a behavioral science-based physical education program on the physical activity-related variables of college freshmen: Project FYPE. Japan Journal of Physical Education, Health and Sport Science, 54: 145-159, 2009.

KODA Kunihide

1. Professor, B.P.E.
2. System and construction of technique in kendo
3. Activity Patterns and Athletes' Perception of Use of Left Trapezius Muscles during the Upswing of the Kendo Shomen-Uchi. Research Journal of Budo. 41(3):13-21, 2009.

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
3. The change of Image toward Budo which the students attending Judo classes on the common Physical Education course. Journal of Sport and Physical Education Center University of Tsukuba, 33 : 11-20, 2011.
Textbook of Budo (2012) Seibido

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.
2. A study on improve performance of Judo Player.
3. Isokinetic trunk muscle strenght of male judo athletes: change in auscle contraction force accompanying change in angle velocity Reasearch journal of Budo, 43(1), 19-26, 2010.
An effects of uchikomi as endurance and strenght training in judo, Reasearch journal of Budo, 42(2), 1-9, 2009.

MATSUMOTO Tsuyoshi

1. Associate Professor, B.P.E., M.P.E.
2. Theory of coaching tactics
3. American Football development in Japan. A study of National Football League strategies. International Journal of Sport Management 11: 248-271, 2010.
Characterisitics of flag football playbooks among sixth graders. The Japan Journal of Coaching studies 27(1):117-124, 2013.

MITSUHASHI Daisuke

1. Associate Professor
2. Tennis Coaching studies
3. A study of the characteristics of forehand stroke techniques and tactics in tennis players- Compared at competition level -. Japan Journal of Sport Movement and Behaviour.(25)29-43, 2012.

MOTOYA Satoshi

1. Assistant Professor, B.P.E., M.P.E.
2. Methodology of gymnastics for All
3. A study on the bounding movement in a seated position on a G-ball: Focusing on electromyographic activities of erector spinae. The Japan Journal of Coaching Sndies, 14(1), 49-56, 2010
Present status of gymnastics in Germany -An example of sport and gymnastic school in Kiedaisch-. Japan Journal of Sport Coaching, 4-1, 52-61. 2005

NABEYAMA Takahiro

1. Associate Professor, B.P.E., M.P.E.
2. Coaching of kendo
3. Research on the Awareness of Martial Arts Culture in Foreign Kendo Practitioners. Research Journal of Physical Arts, 16, 47-55. 2010.
The Change of Image toward Budo which the students attending Judo classes on the common Physical Education course. Journal of Sport and Physical Education Center University of Tsukuba, 33, 11-20. 2011.

NAKAGAWA Akira

1. Professor, M.E. ph. D.
2. Rugby Coaching Studies
3. Attack aspects from ruck in rugby games of world top-level in recent years. The Japan Journal of Coaching Studies, 26, 133-143. 2013.
A review of studies using notational analysis of game performance in rugby union football. The Bulletin of Faculty of Health and Sport Sciences, 34, 1-16. 2011.

NAKAMURA Tsuyoshi

1. Associate Professor
2. Movement Theory of Sports Phenomenological - morphological theory of sport movement
3. Die Lehrmethode zur F_rderung des Herausbekommens des Kniffs, Dimensionen des Bewegungslernens im Turnen, Schriften der Deutschen Vereinigung f_r Sportwissenschaft, Band 242, pp.35-43, 2015
Die Lehrmethode zur F_rderung des Herausbekommens des Kniffs (Vortrag), Deutsche Vereinigung f_r Sportwissenschaft, Jahrestagung der dvs-Kommission Ger_tturnen (Tagungsthema: Dimensionen des Bewegungslernens im Turnen), Stiftung Universit_t Hildesheim, 1.-3. September 2014

NAKANISHI Yasumi

1. Associate Professor, B.P.E., M.P.E.
2. Coaching methodology in volleyball
3. Game analysis on the side out rate in volleyball game (9) - Game structure in men's volleyball -. Bull. Sport Methodol., Univ. of Tsukuba, 15, 63-70. 1999.
A study on the blocking system in volleyball games (1). Bull. Sport Methodol., Univ. of Tsukuba, 16, 43-49. 2000.

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
3. Effects of the different stage of development of players and play area size as a task constraint on soccer pass skills. Japan J. Phys. Educ. Hlth. Sport Sci. 54:343-353, 2009.
The effects of play area size as task constraints on soccer pass skills. Football Science, 5, 1-6, 2008.

NARA Takaaki

1. Assistant Professor
2. Research on pitching motion of professional baseball and an amateur baseball player
3. Takaaki NARA, Takashi KAWAMURA, Kazushi SHIMADA, Naotaka MAMIZUKA. Comparison of pitching mechanics in baseball game between professional pitcher and university pitcher. Bulletin of Sport and Physical Education of University of Tsukuba (33): 1-10, 2011.
Takaaki NARA, Takashi KAWAMURA, Kazushi SHIMADA, Yukinobu SAKAMOTO. On the Effect of Difference in Athletic Environment in Junior-High School Days on the Athletic Competence for University Baseball Players -Comparison between Junior-High School's clubs and hard-ball baseball clubs-. Japan Journal of Sport Coaching 7:12-25, 2009.

Staff^(5/5)

OGATA Mitsugi

1. Professor, M.P.E., Ph.D.
2. Training for athletes
3. Effect of slow movement and stretch-shortening cycle on lower extremity muscle activity and joint moments during squat. *The Journal of Sports Medicine and Physical Fitness*, 47, 1-12. 2007.
Physiological aspects of traditional Japanese Nanba style running. *Journal of Human Movement Studies*, 50, 171-184. 2006.

OHYAMA BYUN, Keigo

1. Associate Professor, B.P.E., M.P.E.
2. Coaching for track and field, EMG based functional anatomy of human movement
3. A biomechanical analysis of the men's shot put at the 2007 World Championships in Athletics. *New Studies in Athletics* 23, 53-62, 2008.
Isometric knee flexion is reinforced in the dorsiflexed ankle position through the function of biarticular gastrocnemius. In *Electrophysiology and Kinesiology*, Monduzzi Editore, Bologna, pp351-355, 2000.

OKADA Hirotaka

1. Associate Professor, B.P.E., M.P.E.
2. Sport methodology in judo
3. Effects of maximal intermittent training under simulated high-altitude hypoxia condition of the aerobic and the anaerobic working capacities in judo players. *Japanese Academy of Budo*, 32(1), 70-81. 1999.
A comparative study of actual situations and consciousness in Japanese and French judo participants. *Japanese Academy of Budo*, 33(1), 31-39. 2000.

ONO Takashi

1. Junior Assistant Professor
2. A study on improve performance of Judo Player.

ORIKASA Ai

1. Junior Assistant Professor
2. Coaching Methodology in volleyball

OTAKA Toshihiro

1. Professor, B.P.E.
2. Theory of basketball coaching
3. Effects of physical training based on the individualization principle for ball game athletes. *Japan Journal of Physical Education, Health and Sport Sciences*, 51 (1), 21-32. 2006.
Focusing on offensive time of the half court offense in basketball. *Bulletin of Sports and Physical Education Center of University of Tsukuba*, 30, 9-22. 2008

PARK Kyungjin

1. Junior Assistant Professor, B.P.E., M.P.E., Ph.D.
2. Physical Education, Dance Education
3. Comparison of the dance-related contents of the Japanese and Korean national curricula and the background of recent revisions to the Japanese 2008 Teaching Guideline and the Korean 2007 Revised Education Course. *Japan J. Phys. Educ. Hlth. Sport Sci.* 58: 151-180, June, 2013
A study on the historical changes of contents about dance in Korean and Japanese national curriculum. *Research Journal of JAPEW*, 27:39-53, March, 2011

Roland Nemes

1. Assistant Professor
2. Foreign language Teaching, Coaching science
3. Roland Nemes: Scoring efficiency development of two Japanese U21 national players, regarding 1:1 with the goalkeeper. *European Handball Federation Master Coach thesis*, 2014

SAITO Taku

1. Assistant Professor
2. A study on morphological of exercise
3. Morphological study on the pushing off technique of Hand-spring forward and salto forward stretched in the Vault of female player. *The Japan Journal of Sport Methodology* 21(2), 147-155. 2008.
Structural-systematic study of Salto sideward tucked, piked or stretched with 1/2 turn in the Floor Exercises. *Japan Journal of Sport Movement and Behaviour*, 24, 17-28. 2011.

SAKAMOTO Akihiro

1. Professor, M.P.E., M. Ed
2. Outdoor education, Outdoor experiential therapy
3. The experience process with female student unwilling to attend school who participated in adventure camping -Focusing "physicality" in adolescence. *Journal of Clinical Studies for Mind and Body*, 15(1), 53-64, 2013.
A case study of the effects of long-term camping therapy on an adolescentshowing destructive aggression at junior high school. *Journal of Clinical Studies for Mind and Body*, 12(1), 29-40, 2010.

SAKATANI Mitsuru

1. Junior Assistant Professor, B.P.E., M.P.E.
2. 1) Effect of Outdoor Education. 2) Effect and safety measures of Skiing.
3. 1) Study about New Awareness of Family Members through ASE for Family. *Bulletin of Biwako Seikei Sport College*, 12:83 - 92, 2015.
2) The Current Status of Safety Measures of Backcountry Ski Tours -Examination in Relation to the Provision of Backcountry Ski Tours-. *Journal of Ski Science*, 11(1):103 - 111, 2014.

SANO Atsushi

1. Professor, B.P.E., M.P.E., Ph.D
2. Phaenomenological - morphological theory of sport movement
3. Zur phaenomenologisch-morphologischen Bewegungsanalytik im Sport in Bezug auf Goethes Morphologie. *Morphologia Heft* 29, 45-62, 2007
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
3. Comparison of the training load during High Intensity Interval Resisted Training programed by different exercise duration, In: Mason B(eds.), *Biomechanics and Medicine in Swimming XII*, Australian Institute of Sports, 328-332, 2014.
Glucose response after a ten-week training in swimming. *International Journal of Sports Medicine*, 32:835-838, 2011.
Effect of computer assisted instruction web site for swimming to children's learning motives and learning strategy. In: JP Vilas-Boas, F Alves, A Marques (eds.), *Biomechanics and Medicine in Swimming X*, Portuguese Journal of Sport Sciences, Suppl 2, 341-343, 2006.

SHIMASAKI Tatsuya

1. Assistant Professor
2. Rugby Coaching Studies
3. Tatsuya S, Go Chiba, Akira N : Attack aspects from ruck in rugby game of world top-level in recent years. *The Japan Journal of Coaching Studies*, 26(2):133-143, 2012

SUITA Masashi

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

TABEI Yusuke

1. Junior Assistant Professor, BSc, M.P.E.
2. Sports Coaching and Psychology
3. Tabei Y., Fletcher D., & Goodger K.: The Relationship Between Organizational Stressors and Athlete Burnout in Soccer Players. *Journal of Clinical Sport Psychology*, 6: 146-165, 2012.

TAKAGI Hideki

1. Professor, B.P.E., M.P.E., Ph.D.
2. Biomechanics and Hydrodynamics of Water Sports
3. Takagi, H., Nakashima, M., Ozaki, T., and Matsuuchi, K.: Unsteady hydrodynamic forces acting on a robotic arm and its flow field: Application to the crawl stroke. *Journal of Biomechanics*, 47, 1401-1408, 2014.
Hideki Takagi, Moromu Nakashima, Takashi Ozaki, Kazuo Matsuuchi: Unsteady hydrodynamic forces acting on a robotic hand and its flow field. *Journal of Biomechanics*, 46 (11): 1825-1832, 2013.

TANIGAWA Satoru

1. Associate Professor, Ph. D.
2. Theory and methodology of sports training
3. A study on training methods for sprint and sprint hurdle performance. *Jpn. J. Studies in Athletics*, 4, 19-24, 2006.
The Characteristics of running and walking movements between sprintskilled-athletes and non-athletes *Japan Journal of Physical Education, Health and Sport Sciences*, 53, 75-85, 2008.

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
3. Tsuyoshi Takeda, Hideki Takagi, Shozo Tsubakimoto : Effect of inclination and position of new swimming starting block's back plate on track-start performance, *Sport Biomechanics*, 11(3):370-381, 2012.
Sengoku Y, Nakamura K, Takeda T, Nabekura Y, Tsubakimoto S.: Glucose response after a ten-week training in swimming, *Int J Sports Med*. 32(11):835-838. 2011.

UCHIYAMA Haruki

1. Professor, B.P.E., M.E., Ph. D.
2. Philosophy of coaching, Principles of competitive sports, Theory of performance in basketball
3. A study of the norm for supporting play by athletes in team sports: focusing on Michael Jordan's "authority." *J. phys. Educ. Hlth. Sport Sci.*, 59: 591-608, 2014.
The essential role of coaches. *J. phys. Educ. Hlth. Sport Sci.*, 58: 677-697, 2013.

WATANABE Hitoshi

1. Assistant Professor, M.P.E.
2. Theory of Outdoor Pursuits and Outdoor Education
3. Physiological and Psychological Effects of the Indoor Rock Climbing as an Adventure Based Program. *Japan Society of Sport Coaching*, 5(1):1-12, 2006
The Study of the Changing Process in Self-Concept of Female High School Students during a School Camping. *Japan Outdoor Education Journal*, 9(1): 55-66, 2005.

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
3. Yamada, E., Aida, H., Fujimoto, H., Nakagawa, A. : Comparison of Game Performance among European National Women's Handball Teams. *International Journal of Sport and Health Science*, 12:1-10, 2014
Yamada, E., Aida, H., Nakagawa, A. : Comparative analysis of training regimens between top European and Japanese women's youth handball team with a focus on shooting. *The Japan Journal of Coaching Studies*, 25(1): 77-90, 2011

YAMADA Yukio

1. Professor, Ph. D.
2. Tennis Coaching studies
3. Research of the core techniques of the volley in tennis by literature search. *Japan Journal of Sport Movement and Behaviour*. 25-41, 2010.
The difference between top ranked players and lower ranked players in the tennis World rankings - analysed from the method of entering tournaments -. *Japan Journal of Sport Movement and Behaviour*. 29-47, 2011.

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
3. A Study on building team offense in basketball. *Jpn. Institute of Health and Sport Science University of Tsukuba*, 33(1):127-149, 2010.

ZUSHI Koji

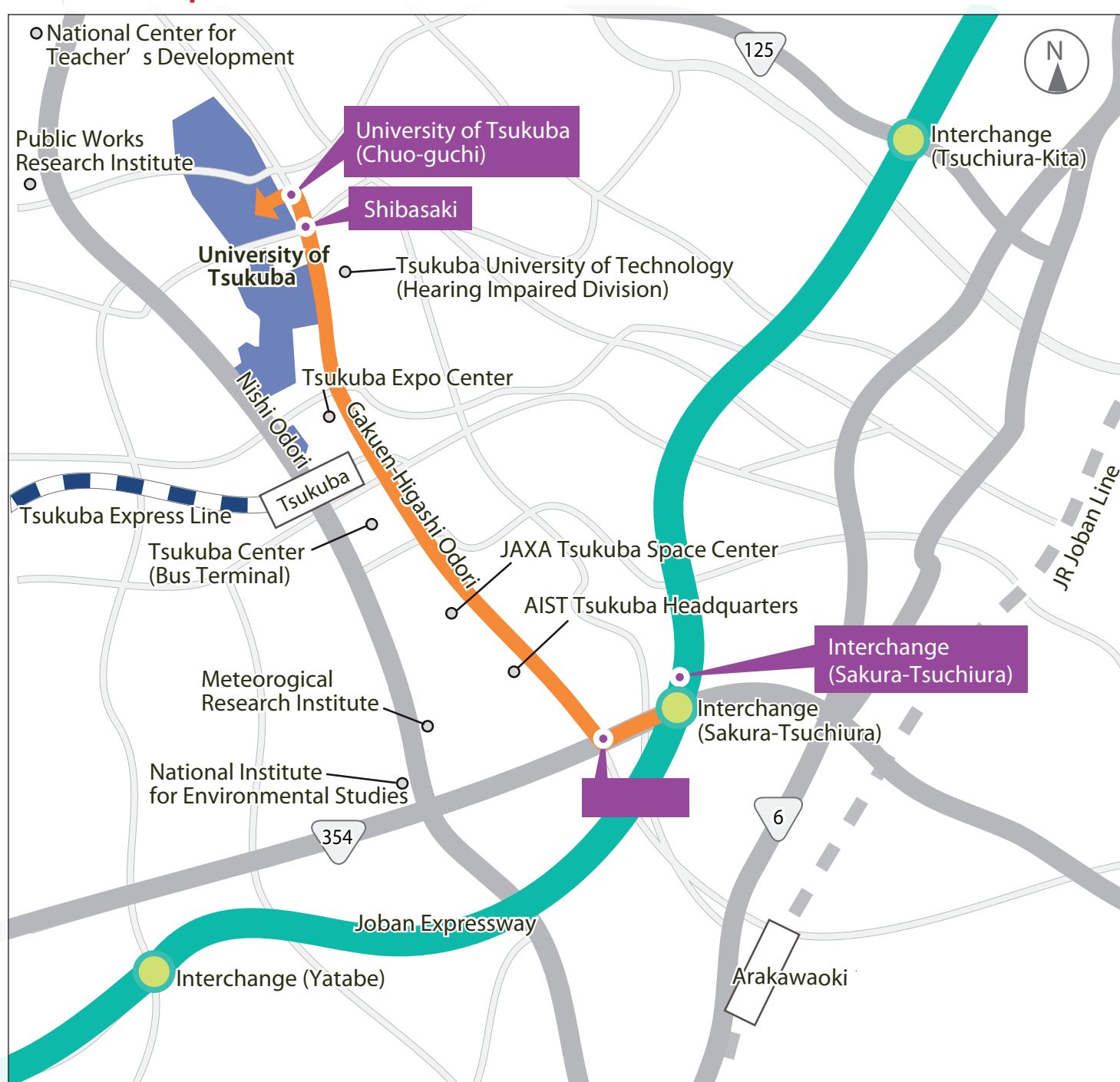
1. Professor, Ph. D.
2. Theoretical construction and a methodological development for sports training and the coaching
3. Determinants of the abilities to jump higher and shorten the contact time in a running one-legged vertical jump in basketball, *Journal of Strength and Conditioning Research*, in press, 2009.
Japan Society of Training Science for Sports and Exercise, 22nd Scientific Congress Award 2009.

Campus Map and Location

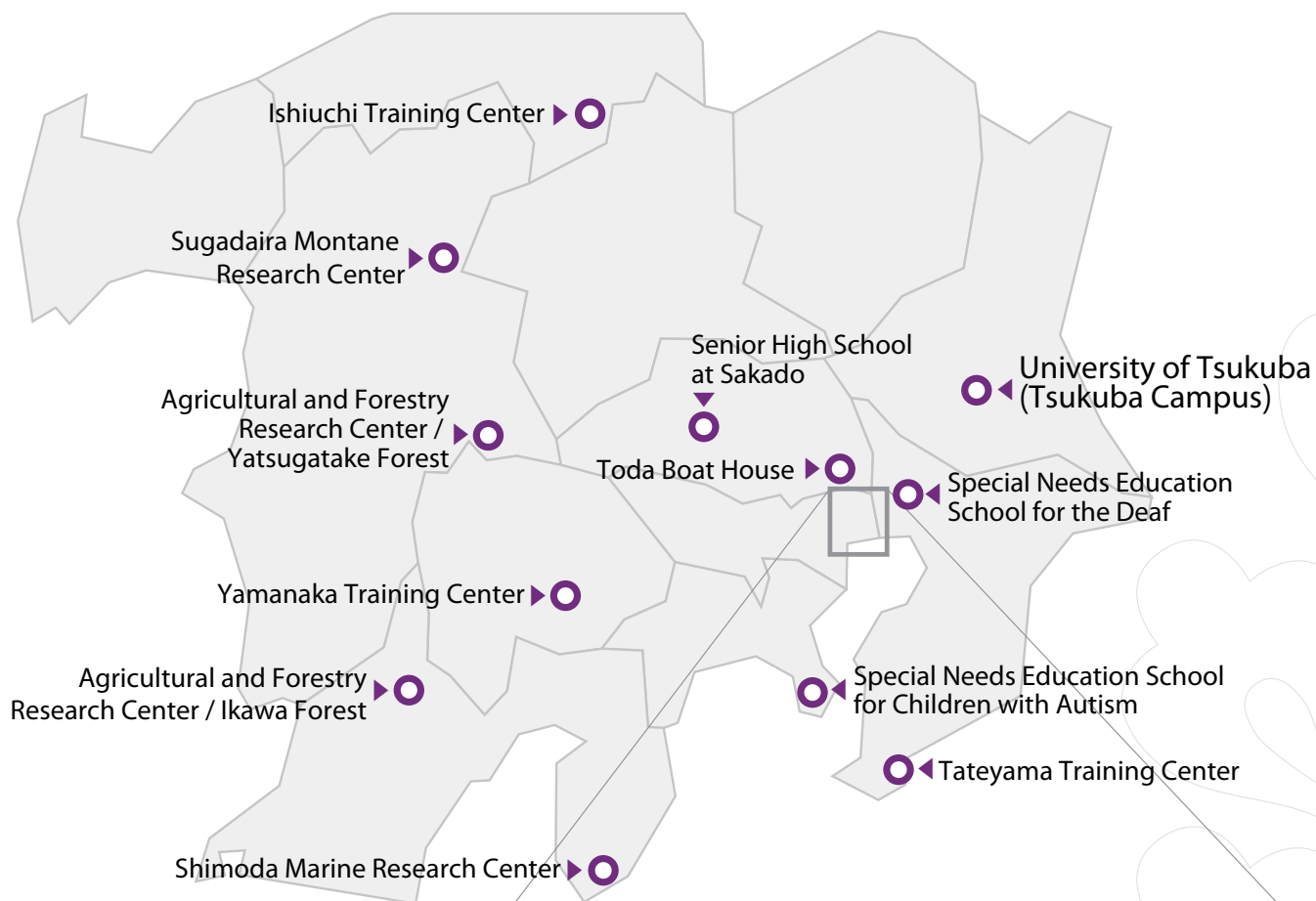
Tsukuba Campus http://www.tsukuba.ac.jp/english/access/tsukuba_access.html

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

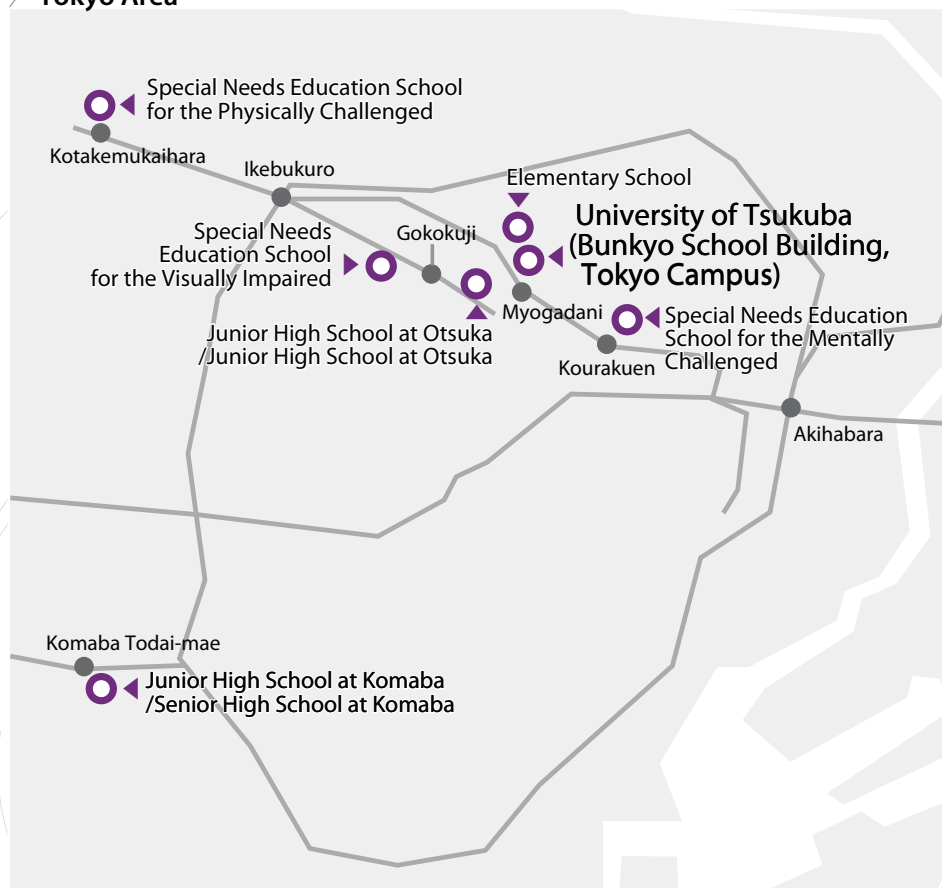
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Tokyo Area



University of Tsukuba

