



An Institute of



NTU
OPEN
HOUSE
2024

Sport Science



**MORE THAN A
SCHOLARSHIP
JOIN TSP**





PESS is a vibrant academic group at the National Institute of Education (NIE), Nanyang Technological University (NTU), Singapore. We started as the College of PE in the year 1984, transited to School of PE in 1991, and established PESS AG in 2000.

At PESS AG, we have developed a clear vision to be the leading teacher-training and research centre for PE, sport science, and sport management in the region and beyond. Our mission is to develop trainee teachers in areas of competence and expertise in teaching PE as a major subject, and undergraduates who will be contributing in the sports industry. We have a group of dedicated and committed faculty members, with diverse backgrounds and expertise to deliver quality academic programmes and provide a quality learning environments and experiences for our students. PESS AG is well-equipped with both indoor and outdoor sports facilities. In addition, we have state-of-the-art laboratory based equipment used for research and teaching.



Entry Requirements

Candidates applying for the BSc Double Major Programme in Sport Science and Education:

- Should preferably possess a **strong CCA record in sports and/or games** in secondary and tertiary level
- Must **pass the Physical Proficiency Test**

THE STRUCTURE OF PROGRAMME (Primary)

The Bachelor of Science (Double Major) programme is a 4-year direct honours programme. The Sport Science and Education programme is designed for the academic preparation of undergraduates as professional training to enable student teachers to become effective teachers in the primary and secondary schools. At PESS, student teachers will be taking the following courses:

MAJOR 1: SPORT SCIENCE

Academic Discipline Major (42 AUs):

Core Courses:

- Anatomical & Biomechanical Foundations of Physical Activity
- Assessment in Physical Education and Sports
- Foundations of Psychology and Motor Learning in Physical Activity
- Growth and Motor Development
- Inclusive of Physical Activity and Sport
- Physiology of Exercise
- Sports Injury Prevention and Management in PE and Youth Sport
- Theory and Practice of Badminton
- Theory and Practice of Basketball
- Theory and Practice of Floorball
- Theory and Practice of Football
- Theory and Practice of Softball
- Theory and Practice of Volleyball

Prescribed Electives:

- Applied Psychology of Physical Education and Sport
- Biomechanical Modelling and Simulation
- Environmental Exercise Physiology
- Event and Facilities Management in Sports
- Exercise Prescription
- Experimental Biomechanics
- Management of Sport Organisations
- Physical Activity and Health
- Psychology of Physical Education and Sport
- Skill Acquisition: Theory to Practice
- Sociology of Sport
- Sport Nutrition

MAJOR 2: EDUCATION

Education Studies (12 AUs)

- Assessing Learning and Performance
- Character and Citizenship Education in the Singapore Context
- Educational Psychology I: Theories and Applications for Learning and Teaching
- Pedagogical Practices
- Supporting Diversity at the Primary Level
- Teaching and Managing Learners at the Primary Level
- Technologies for Meaningful Learning
- Professional Practice and Inquiry

Practicum (8 AUs)

- School Experience
- Teaching Assistantship
- Teaching Practice 1

Curriculum Studies 1: Sport Science (15 AUs)

- Fundamental Movement Skills
- Instructional Methods in Physical Education
- Instructional Strategies in Physical Education
- Principles of Games
- Teaching of Holistic Health and Physical Fitness
- Teaching of Outdoor Education

Curriculum Studies 2 (9 AUs):

English Language & Linguistics / Mathematics / Science / Social Studies

Inter-Major Courses (22 AUs)

- Academic Discourse Skills
- Academic Exercise: Physical Education
- Educational Research/ Research Project
- Teaching Practice 2

Interdisciplinary Collaborative Core (14 AUs)

- Communication Skills for Teachers
- Digital Literacy Elective
- Ethics and Social Contexts of Education
- Group Endeavours in Service Learning
- Multicultural Studies
- Sustainability: Society, Economy & Environment

Broadening and Deepening Electives

- Primary Level Subjects 1- (6 AUs)
- Primary Level Subjects 2 - Sport Science (6 AUs):
 - Curriculum Gymnastics
 - Dance
 - Track and Field
- General Electives (6/18 AUs)

THE STRUCTURE OF PROGRAMME (Secondary)

The Bachelor of Science (Double Major) programmes is a 4-year direct honours programme. The Sport Science and Education programme is designed for the academic preparation of undergraduates as professional training to enable student teachers to become effective teachers in the primary and secondary schools. At PESS, student teachers will be taking the following courses:

MAJOR 1: SPORT SCIENCE

Academic Discipline Major (42 AUs):

Core Courses:

- Anatomical & Biomechanical Foundations of Physical Activity
- Assessment in Physical Education and Sports
- Foundations of Psychology and Motor Learning in Physical Activity
- Growth and Motor Development
- Inclusive of Physical Activity and Sport
- Physiology of Exercise
- Sports Injury Prevention and Management in PE and Youth Sport
- Theory and Practice of Badminton
- Theory and Practice of Basketball
- Theory and Practice of Floorball
- Theory and Practice of Football
- Theory and Practice of Softball
- Theory and Practice of Volleyball

Prescribed Electives:

- Applied Psychology of Physical Education and Sport
- Biomechanical Modelling and Simulation
- Environmental Exercise Physiology
- Event and Facilities Management in Sport
- Exercise Prescription
- Experimental Biomechanics
- Management of Sport Organisations
- Physical Activity and Health
- Psychology of Physical Education and Sport
- Skill Acquisition: Theory to Practice
- Sociology of Sport
- Sport Nutrition

MAJOR 2: EDUCATION

Education Studies (11 AUs)

- Assessing Learning and Performance
- Character and Citizenship Education in the Singapore Context
- Educational Psychology I: Theories and Applications for Learning and Teaching
- Pedagogical Practices
- Teaching and Managing Learners at Secondary Level I
- Teaching and Managing Learners at Secondary Level II
- Technologies for Meaningful Learning
- Professional Practice and Inquiry

Practicum (8 AUs)

- School Experience
- Teaching Assistantship
- Teaching Practice 1

Curriculum Studies 1: Sport Science (15 AUs)

- Fundamental Movement Skills
- Instructional Methods in Physical Education
- Instructional Strategies in Physical Education
- Principles of Games
- Teaching of Holistic Health and Physical Fitness
- Teaching of Outdoor Education

Curriculum Studies 2 (9 AUs):

corresponds with Academic Discipline 2

Inter-Major Courses (22 AUs)

- Academic Discourse Skills
- Academic Exercise: Physical Education
- Educational Research / Research Project
- Teaching Practice 2

Interdisciplinary Collaborative Core (11 AUs)

- Communication Skills for Teachers
- Digital Literacy Elective
- Ethics and Social Contexts of Education
- Group Endeavours in Service Learning
- Multicultural Studies
- Sustainability: Society, Economy & Environment

Broadening and Deepening Electives (21 AUs)

- Minor - based on Academic Discipline 2 (15 AUs)
- General Electives (6 AUs)



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**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

NTU-NIE Teaching Scholars Programme

is a prestigious award for outstanding scholars with a passion and calling to be professional leaders in education. TSP aims to produce graduates with intellectual rigour, strong leadership, and relevant global perspective to make significant contributions to education. This programme features a carefully designed curriculum comprising an exciting multi-disciplinary curriculum that supplements the core curriculum in the Bachelor of Arts (Education) / Bachelor of Science (Education) programme, a wide selection of electives as well as personal guidance by faculty advisors. Visit the following websites for more information.



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CONTACT US:

For **Admission** matters, please contact the Office of Academic Administration and Services (OAAS) at: nieadmtp@nie.edu.sg

For **Undergraduate Academic** matters, please contact the Office of Teacher Education (OTE) at: babsc@nie.edu.sg

For **academic matters pertaining to the PE programme**, please contact the Physical Education and Sports Science Academic Group (PESS AG) at: pess@nie.edu.sg

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PESS AG