Subject: Information Technology in Sport

I.   General information

Organization unit	Faculty of Physical Education Chair: Human Biology Supervisor: Prof. Monika Łopuszańska-Dawid
Course name	Information Technology in Sport
Subject code	2/3/I/S
Teaching language	English
Type of subject (obligatory/ facultative)	facultative
Level of studies (eg. bachelor, master)	bachelor
Study year	1
Semester	1
ECTS points	3
Teacher	Paweł Tomaszewski pawel.tomaszewski@awf.edu.pl
Studies program in which the subject is realized	PHYSICAL EDUCATION
Method of realization (stationary/ distance learning)	stationary
Prerequisites	Basic knowledge on computer architecture and operating systems

II.   Detailed Information

Course aims and objectives

A1	Prepare students to function effectively in a dynamic technological era
A2	Facilitate the development and application of problem-solving skills in students with the use of available information technologies.
A3	Develop computer-related skills for immediate application to other curricular areas

	(Internet search, editing text, data storing and processing)

Learning outcomes

Learning outcome	Subject's learning outcomes
Knowledge	
K_W10 Basic knowledge and comprehension of the basic terminology of sport sciences (concepts, theories, methods and concepts associated with sports training).	Knows and understands the basic concepts associated with a computer architecture, operating system and MS Office application programs. Knows the principles of safe use of the computer system and its software.
K_W08 Knowledge and comprehension of methods and forms of education and training, as well as education and training, including also teaching techniques and methodology with respect to various competitions and disciplines in sport education. K_W15 Knowledge of possibilities for the deploying information technologies in professional activity.	Distinguishes and explains editing functions and text formatting in word processors. Distinguishes and explains calculation functions of a spreadsheet.
K_W08 Knowledge and comprehension of methods and forms of education and training, as well as education and training, including also teaching techniques and methodology with respect to various competitions and disciplines in sport education. K_W15 Knowledge of possibilities for the deploying information technologies in professional activity.	Possesses knowledge on presenting results of his own activities on issues related to sport with the use of selected information techniques. Knows the rules for creating a multimedia presentation.
Skills	
K_U05 Ability to compile and process information with the use of information technologies and electronic information sources, and adopt them for needs of professional work.	Is able to acquire and process information from the Internet, search and use the internet services appropriate for physical education. Is able to configure settings in selected application programs
K_U05 Ability to compile and process information with the use of information technologies and electronic information sources, and adopt them for needs of professional work. K_U09 Ability to perceive problems and make use of elementary research methods. Ability to carry out measurements and assessments and to analyse errors and to adopt the necessary modifications of classes.	Using the editing and text formatting functions, student can create and process texts in word processors. He/she can use the calculation functions of a spreadsheet and design and format tables. Is able to interpret obtained numerical data and present the results on the charts.

Ability to devise a written report on laboratory studies, present studies with the use of audio-visual means.	
K_U05 Ability to compile and process information with the use of information technologies and electronic information sources, and adopt them for needs of professional work. K_U15 Ability to make use of principles, forms, means and methods and of information technologies in planning and implementation of the didactic process and sports training. K_U17 Ability to plan own professional development.	Is able to present the results of his own activities on issues related to physical education and sport with selected information techniques.
Social Competences	
K_K04 Capacity for autonomous decision making in professional tasks. K_K07 Capable to supplement and develop the acquired knowledge and skills.	Has the need to supplement and improve acquired knowledge and skills in the use of information technology.
K_K05 Ability to work in a team – involved actively in the work of groups (teams) and organisations assigned with implementation of social objectives, especially with respect to sports activity. K_K08 Sense of responsibility, implementation of assigned tasks in a professional and ethical way.	Works in a team performing various tasks.
K_K06 Ability to communicate with other people and to pass on basic knowledge related to sports. K_K08 Sense of responsibility, implementation of assigned tasks in a professional and ethical way.	Communicates via electronic media

Syllabus contents

No	Title
Classes/ Practical classes	
SC1	Personal adjustments of settings and toolbars, creating MS Word documents.
SC2	Text formatting, editing commands, symbols, tabulators, bullets and numbering, page numbers.
SC3	Inserting and formatting tables.
SC4	Inserting and formatting images, creating equations.
SC5	Page and section breaks, formatting header and footer
SC6	Creating table of contents.
SC7	Mid-term exam (Word or other text editor)

SC8	Personal adjustments of settings and toolbars, creating MS Excel workbooks and sheets.
SC9	Entering the data, data formats. Cell formatting. Sorting and filtering the data.
SC10	Formulas and selected functions. Fixed address.
SC11	Chart creating and formatting.
SC12	PivotTables, Pivot Charts
SC13	Serial correspondence – preparation of personalized letters using Word and Excel documents
SC14	Application of built-in functions for simple statistical calculations – descriptive statistics
SC15	Final exam (MS Excel or other spreadsheet)

Assessment criterion:

Students' activity, test of practical skills

Obligatory literature:

1. Blanc, I. (1995). Learning Microsoft Office, Professional Version: Word, Excel, PowerPoint, Access. DDC Pub.
2. Clark D.H. (1999) Research Problem in Physical Education 2nd edition, Eaglewood Cliffs, Prentice Hall, Inc.
3. House, D. (2015). Microsoft Word, Excel, and PowerPoint: Just for Beginners. Outskirts Press.
4. Schiessl, P. (2018). Microsoft Excel 2019 - Training book with many Exercises: From the Beginning to Advanced Applications. Independently published.
5. Solosky, S. C. (2002). Microsoft Word: Practice and Exercises. Kendall/Hunt Publishing Company.
6. Verma, J. P. (2011). Statistical Methods for Sports and Physical Education. Tata McGraw Hill Education Private Limited.

1ECTS point = 30 hours students work (contact + self study)

TYPES OF CLASSES	HOURS
Contact hours	30
Self study	60
Total = 90 hours = 3 ECTS	