| Faculty | | WWFiZ | Subject name | Stre | ngth and conditioning | |
|---|--|--|--|--|----------------------------------|--|
| | | | | 101 | (WF/I/st/50) | 1 |
| Field of study | | Physical education | Study year/term | | 3/6 | |
| Number of hours | | 30 obligatory | ECTS points | | 6 English | *obligatory, optional |
| Subject type* Study level** | | full-time | Language Subject form*** | | classes | ***lectures, classes, laboratory classes, projects, workshops, classes |
| Preliminary and additio | onal No | o requirements. | | | | conducted by students |
| requirements (e.g. prev subjects) | vious | | | | | |
| Subject objective | Th ac | e aim of this subject is to provide s tive people. | trength, power and flexibility training guidelines for pysically | | | |
| | SUB | JECT LEARNING OUTCOMES (<i>COUF</i> after completing this subject, the | RSE LEARNING OUTCOM student will be able to: | ES) | | |
| Knowledge | S_K01. Describe the benefits of a warm-up and identify factors that affect flexibility | | | | | 1 |
| | <u>(K</u> | _ W26 /P6U_W/P6S_WG). K02. Understanding the general ter | chniques involved in perf | - | | |
| | an | and teach the basic strength exercises (K_W26 /P6U_W/P6S_WG). | | | | - |
| | S_ tra (K | S_K03. Identify the phases of the stretch-shortening cycle, identify the components of a plyometric training program and design a safe and effective plyometric training program (K_W26/P6U_W/P6S_WG). | | | | |
| škills | S_ (K | S01. Conduct a warm-up before str _ U21 /P6U_U/P6S_UW). | rength and power trainin | 1 | | |
| | S_ | S02. Perform basic resistance train | ing exercise and provide | | | |
| | ac | active people trying to optimize their muscular strength (K_U21 /P6U_U/P6S_UW). | | | | |
| | S_ K_ | S_S03. Show correct execution of lower- and upper-body plyometric exercises K U21/P6U U/P6S UW). | | | | |
| Social competences | S | SC01. Develop and clarify the goals | of a strength and condit | † | | |
| | | KDB/P6U_K/P6S_KK). SC02, Identify ways to reduce the risk of iniury during a workout (K K08/P6U_K/P6S_KO) | | | | 1 |
| | | | ,, | | | |
| Confirmation of achieve outcomes# | ed learning Co ex | ntinuous assesment, assesment of ercises. | execution of the selected strength, power and flexibility | | | #-continuous assessment (current preparation for classes), mid-term written te term oral test, final written test, final oral test, written exam, oral exam, assess motor skills, B.A/M.A. thesis, project realisation, attendance |
| Type of assesment mar | rk## Fir | nal assessment mark, support asses | ssment mark. | | | ##-final assessment mark, support assessment mark |
| Content | | | Subject form (number of hours) ### | Subject learn outcomes | ing Course learning outcomes | ###-lectures, classes, laboratory classes, projects, workshops, classes conducte students |
| L. An introduction to the | e classes (learnir | ng outcomes, passing criteria, | classes (2) | S_SC01 | К_КО6 | |
| 2 The structure and fun | nction of general | and specific warm-ups Factors | classes (2) | S K01 S S01 | K W26 K U21 | - |
| affecting flexibility. Frequency, duration and intensity of stretching. | | | | S_SC01, S_SC0 | 2 K_K06, K_K08 | |
| 3. Types of stretching (static stretch, ballistic stretch, dynamic strtetch, proprioceptive neuromuscular facililtation). Guidlines for stretching. | | | classes (2) | S_K01, S_S01 | K_W26, K_U21 | |
| A warm-up before structure and power train | rength and powe | er training. A cool-down after | classes (2) | S_K01, S_S01 | K_W26, K_U21 | |
| 5. Exercise technique fui | - Indamentals (mo | ovement range of motion and | classes (2) | S_K02, S_S02, | K_W26, K_U21, | 1 |
| peed, breathing consid | derations). | | | S_SC01, S_SC0 | 2 K_K06, K_K08 | |
| 5. Physical testing and evaluation in strength training (squat 1RM, power clean, jerk). | | | classes (2) | S_K02, S_S02, S_SC01, S_SC02 | K_W26, K_U21, 2 K_K06, K_K08 | |
| 7. Strength exercise selection (core and assistance exercises, muscle | | | classes (2) | S_K02, S_S02, | K_W26, K_U21, | |
| Strength and power of | nentj. | am design | ()) | 3_3CU1, 5_5C0 | K W26 K U21 | 4 |
| a. Su engui anu power e | ever rises - brogr | ani uesign. | ciasses (2) | S_SC01, S_SC0 | x_vv20, K_U21, 2 K_K06, K_K08 | |
| 9. Hypertrophy - program | ım design. | | classes (2) | S_K02, S_S02, | К_W26, К_U21, 2 К КЛБ К КОЗ | 1 |
| 10. Muscular endurance | e and circuit trair | ning. | classes (2) | S_K02, S_S02, | K_W26, K_U21, | 1 |
| 44 Dhannahiin madanin and shuridan. Mashanini madal of | | | | S_SC01, S_SC0 | 2 K_K06, K_K08 | 4 |
| Plyometric mechanic plyometric exercise. Street | cs and physiolog etch-shortening | y. Mechanical model of cycle. | classes (2) | S_K03, S_S03, S_SC01, S_SC0 | К_W26, К_U21, 2 К К06. К К08 | |
| 12. Plyometric program design (mode, lower-body plyometrics). Safety | | | classes (2) | S_K03, S_S03, | K_W26, K_U21, | 1 |
| ansideration. | design (mode - | Inner-hady algometrics) Safety | classes (2) | S_SC01, S_SC0 | Z K_K06, K_K08 | 4 |
| 13. Piyometric program design (mode, upper-body plyometrics). Safety consideration. | | | ciasses (2) | S_SC01, S_SC03 | x_vv20, K_U21, 2 K_K06, K_K08 | |
| 14. Plyometric exercise and resistance training. The resisted and assisted | | | classes (2) | S_K03, S_S03, | K_W26, K_U21, | 1 |
| training methods. Landing surface and equipment. | | | -1 (**) | s_scu1, s_scu | ∠ K_KU6, K_K08 | 4 |
| .5. Final assesment (per | rtormance of pra | actical task). | classes (2) | S_K01, S_S01, S_K02, S_S02, S_K03, S_S03, S_SC01, S_SC0 | K_W26, K_U21, K_K06, K_K08 | |
| quipment | 1. Projector | | L | 1 | | |
| | 2. Bars, balls, Swiss balls, boxes, hurdles, jumping rope, hammers | | | | | 1 |
| Passing criteria | g criteria Description and demonstration of strength, powe | | | s. The student sl | hould have minimum | † |
| | 80% attendance in the classes. | | | | | 4 |
| Exemplary exam (test) tasks | Which of strete | ching techniques should be used be | fore plyometric workout | 4 | | |
| | Perform power | r clean and jerk. | | 4 | | |
| Litoratura | Perform 3 upp | er-body plyometrics. | ntials of strongth tool . | a and condition . | ng Human Kis-ti | 4 |
| Literature | Champaign. II | n., & Earre, n. W. (EUS.). (2008). ESSE | andais of strength trainin | s and conditioni | ng. munidii Ninetics, | |
| | | | | | | L |

| 2. Bishop, D. (2003). Warm up II. Sports Medicine | 2. Bishop, D. (2003). Warm up II. Sports Medicine, 33(7), 483-498. | | | | | |
|---|---|--|--|--|--|--|
| 3. Dietz, C., & Peterson, B. (2012). Triphasic trainin performance (Vol. 1). Bye Dietz Sport Enterprise. 4. Radcliffe, J., & Farentinos, R. (2015). High-Powe | Dietz, C., & Peterson, B. (2012). Triphasic training: A systematic approach to elite speed and explosive strength performance (Vol. 1). Bye Dietz Sport Enterprise. Radcliffe, J., & Farentinos, R. (2015). High-Powered Plyometrics, 2E. Human Kinetics, Champaign, IL. | | | | | |
| 5. Zatsiorsky, V. M., & Kraemer, W. J. (2006). Sciel Champaign, IL. | S. Zatsiorsky, V. M., & Kraemer, W. J. (2006). Science and practice of strength training. Human Kinetics, Champaign, IL. | | | | | |
| ECTS points | | | | | | |
| Number of hours with teacher (e.g. classes, office hours) | 40 | | | | | |
| Number of hours without teacher (e.g. homework) | 110 | | | | | |
| ECTS points in total | 150/6 | | | | | |
| Teacher (e-mail) | dr hab. prof. AWF Hubert Makaruk (hubert.makaruk@awf-bp.edu.pl) | | | | | |