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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | **Faculty of Philosophy** |
| **GENERAL INFORMATION** |
| Study program  | **Psychology** |
| Study Module (if applicable) | / |
| Course title | Psychophysiology of Work |
| Level of study | XBachelor ☐ Master’s ☐ Doctoral |
| Type of course | X Obligatory ☐ Elective |
| Semester  | ☐ Autumn XSpring |
| Year of study  | Fourth year of study |
| Number of ECTS allocated | 4 (four) |
| Name of lecturer/lecturers | Miodrag Milenović, Ph.D. |
| Teaching mode | XLectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work X Project work ☐ Seminar☐Distance learning ☐ Blended learning X Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The aim of this course is to introduce students to the psychophysiological basis of human labor, as much as mental as physical, and to introduce students to the possibilities of practical application of knowledge of psychophysiology of work.At the end of the course, the expectations from students are to be able to approach problems from psychophysiology of work from the critical point of view and to learn to master and apply methods and techniques from psychophysiology of work. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| ***Theoretical Study:***1. Psychophysiology of work as an applied science; 2. Basic psychophysiological characteristics of human work; 3. Physical work; 4. Analysis of the dynamics of muscular contraction; 5. The structure of a Muscle fiber; 6. Muscle contraction. Energy sources for Muscle Contraction; 7. Neuromuscular synapse. Pharmacology of neuromuscular synapses. 8. Motor and sensory innervation of muscles. Gamma motor neuron innervation. 9. Cardiorespiratory synergy at work; Psychophysiological characteristics of mental work; 11. Fatigue and rest; The pharmacological stimulators for work; 12. Circadian rhythm and work - basic terms; 13. Circadian rhythm of sleep-wake cycle; 14. Causes of change in circadian rhythm; Psychophysiological disorders as a result of change in circadian rhythm; 15. Stress at work. Extreme work environment factors. |
| **LANGUAGE OF INSTRUCTION** |
| XSerbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **10** | **Written examination** | **20** |
| **Practical teaching** | **/** | **Oral examination** | **50** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |