Level of studies					Third cycle								
Study program Title of the study pr				ograr		Science and mathematics education							
				URSE									
Course title Assessment of Students' Learning Outcomes in Physics													
Course ID Semester Course				status ECTS c			redits Contact hour		ours				
PED672		II		Elective			10		60				
Lecturers Lecturer in charge Other lecturers			Prof. dr. Van	es Mešić									
Developing the ability for assessing students' achievement in physics which is compatible with the nature and structure of physics knowledge. Acquiring knowledge about pedagogical potential and technical aspects of large-scale assessments of student achievement in science. Develop an understanding of the role of internal and external assessment in the process of quality assurance of physics education.													
	CONTENT												
#			Teaching units					Contact hours					
		ntal principles of assessing students' learning outcomes in physics.						L	E/S		С		
	Fundamental principles of assessing students' learning outcomes in physics. Assessing preconceptions. Summative assessment in physics instruction. Assessing students' scientific skills. Standardized testing Formative assessment in physics instruction Grading in physics instruction Utilizing assessment findings for purposes of improving the quality of instruction Large-scale assessment of student achievement Features of most important, international large-scale assessments of student achievement in science Technical aspect of conducting large-scale assessments of student achievement in science How findings from large-scale assessments affect educational policies?												
			TERATURE	ASSESSMENT OF LEARNING									
1.	 Liu, X. (2010). Essentials of Science Classroom assessment. Thousand Ouks: SAGE. 								Points	<u> </u>			
2.	McMahon,M., Simmons, P., Sommers, R., De Baets			rs, R., De Baets, D.,	1. 2.	Partial e			1 X 20		11		
	& Crawley, F. (2006). Assessment in Science: practical experiences and educational research. Arlington: NSTA.				3		ninar papers al exam			1 X 40 40		22	
3.					4.	rinai ex	am			40		22	
J.	Greaney, V., & Kellaghan, T. (2008). Assessing National Achievement Levels in education. Washington: The				4.		Total		100		55		
 4. 5. 	World Bank. Von Davier, K. (2013). The Assessments: and Education Tindal, G., & assessment pradequacy, and	on Davier, M., Gonzalez, E., Kirsch, I., & Yamamoto, . (2013). The Role of International Large-Scale ssessments: Perspectives from Technology, Economy, and Educational Research. Dordrecht: Springer. indal, G., & Haladyna, T.M. (2002). Large-Scale ssessment programs for all students: validity, technical dequacy, and implementation. Mahwah, NJ: Lawrence rlbaum Associates.											