

NAME OF THE COURSE		Seminar of teaching methods in technical culture with practice I						
Code	PMT172	Year of study			2. year graduate study			
Course teacher	Stjepan Kovačević, Assistant Professor	Credits (ECTS)			3,0			
Associate teachers		Type of instruction (number of hours)			L	S	E	F
						15	30	
Status of the course	Compulsory	Percentage of application of e-learning						
COURSE DESCRIPTION								
Course objectives	Qualification for designing and implementation basic engineering, electrotechnics, electronics, automation, construction and transports practical exercises in primary and (lower) secondary technology education.							
Course enrolment requirements and entry competences required for the course	Requirements for admission: The subject Technical culture teaching methodology I completed.							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon successful completion of this course students will be able to: 1. Create students practical activities in the technology education; 2. Plan the implementation of students' practical activities in the technology education; 3. Create methodical documentation for practical lessons; 4. Implement the practical activities in the technology education; 5. Apply the polytechnic contents in the planning and implementation of practical activities in the teaching techniques;							
Course content broken down in detail by weekly class schedule (syllabus)	1. Week: Production of mechanical constructions and experimental verification. 2. Week: The simple tools application (lever, wedge, bevel, wheel, ball, roller) in the development of elements, mechanisms and mechanical constructions. 3. Week: Simple engineer mechanisms in practical technology training; 4. Week: Construction Fundamentals - technical drawing. 5. Week: Building materials, testing material properties 6. Week: Production of the technical and methodical documentation of the building model. 7. Week: Development of the building model. 8. Week: Creating exercises from the basic electrotechnics, simple circuitry, electrical installation in the household. 9. Week: Creating exercises from the basic electronics. 10. Week: Creating exercises from the basic automation and robotics. 11. Week: Creating exercises from the basic traffic. 12. Week: Practical training in real conditions. 13. Week: Practical training in real conditions. 14. Week: Practical training in real conditions. 15. Week: Practical training in real conditions.							
Format of instruction	<input type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input checked="" type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student responsibilities								
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is	Class attendance		Research		Practical training	2		
	Experimental work		Report		(Other)			
	Essay		Seminar essay	1	(Other)			
	Tests		Oral exam		(Other)			

<i>equal to the ECTS value of the course)</i>	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	The final score derives from analysis and evaluation of seminars papers and exercises, the success achieved in the midterm's exams and discussion about the theoretical problems of Technology teaching methodology (final oral exam).					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	2. Milat J. i drugi: Modeli razrade sadržaja tehničke kulture – izborna nastava i slobodne aktivnosti, Hrvatski savez pedagoga tehničke kulture, Zagreb, 1997.					
	Milat J.: Metodika radno tehničkog područja, Fakultet prirodoslovno-matematičkih znanosti i odgojnih područja, Split, 2009.					
Optional literature (at the time of submission of study programme proposal)						
Quality assurance methods that ensure the acquisition of exit competences	- Students interview; Students opinions regarding the teaching quality by anonymous surveys; Students achievement; Self-analysis.					
Other (as the proposer wishes to add)						