

ProjectX - INTERNAL ASSESSMENT

Title of the ProjectX: *BASIC LOGIC GATES*

School writing: *Meram Vocational and Technical High School*

School testing: *Val do Rio*

A. PRESENTATION

	Opinion (thick)	Proposal / Comment
Student	 X	Here the binary number system, basic logic gates and simple logic circuit design will be taught. Logic gates, is the most fundamental issues of digital electronics. Students will understand binary number system, logic gates, symbols and consolidate these information through practice. Digital electronics are very widely used in all industries. If this topic is not understood, advanced digital issues will become more complex and very difficult to learn. Learning this subject makes it easier to teach other subjects related to digital and supports students to improve themselves faster.
		
Teacher	 X	
		

B. THEORETICAL KNOWLEDGE

	OBJECTIVE			REFERENCE		
Student		X				
						
Teacher		X	1. Binary number system. 2. Basic Logic Gates (AND, OR, NOT, NAND, NOR, XOR and XNOR) 3. Simple Logic Circuit Design			
						



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ACTIVITIES

ACTIVITY			REFERENCE		
Student		X	Learning truth tables of logic gates. Design simple circuits with logic gates Evaluation of theoretical knowledge		
					
Teacher		X			
					



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C. PRACTICE – PRATICAL DETAILS

Brief description of the practice

	Opinion (thick)		Proposal / Comment
Student		X	Obtaining of the truth tables of logic gates on the experiment set Application of simple logic circuits with logic gates from truth table or function.
			
Teacher		X	
			

Practical activities

STEP 1	Opinion (thick)		Proposal / Comment
Student		X	Understanding and interpreting of logic gates' symbols
			
Teacher		X	
			

STEP 2	Opinion (thick)		Proposal / Comment
Student		X	Measuring the outputs of each gates by changing their inputs
			
Teacher		X	
			



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STEP 3	Opinion (thick)		Proposal / Comment
Student		X	Examining the operation of the logic gates and comparing expected outputs to the truth tables.
			
Teacher		X	
			

STEP 4		Opinion (thick)	Proposal / Comment
Student		X	Constructing logic circuit which function was given
			
Teacher		X	
			

General commentary

Student
