

The student **must bring this notebook correctly filled at the beginning of the corresponding lab session**, where it must be shown to the assistant professor. The circuit cannot be built if this form is not completed or is incorrect.

## Introduction to Computers Notebook - Lab 3

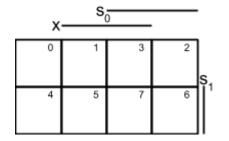
	(	1) State diagrar	(3) Truth table - State transition function					
				S <sub>1</sub>	S <sub>0</sub>	х	s <sub>1</sub> '	s <sub>o</sub> '
				0	0	0		
				0	0	1		
				0	1	0		
				0	1	1		
				1	0	0		
				1	0	1		
				1	1	0		
				1	1	1		
State		Meaning	g					
S <sub>0</sub>	Initial state							
S <sub>1</sub>	Subpattern "0" has arrived							
S <sub>2</sub>	Subpattern "01" has arrived							
S <sub>3</sub>	Subpattern "010" has arrived							
(2) States - Encoding				(4) Truth table - Output function				
Sta	ate	S <sub>1</sub>	S <sub>0</sub>	s1		s0		z
S	S <sub>0</sub>			0		0		
S	S <sub>1</sub>			0		1		
S	$S_2$			1		0		
S	$\delta_3$			1		1		

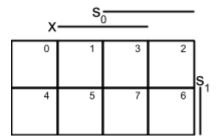


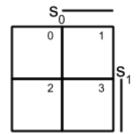
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## (5) Karnaugh Maps







$s_1' = $ $z = $
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Design

Define for each element and port the associated IC number and the corresponding pin