

**DIGITAL SYSTEMS**

**PRACTICUM 4**



**By:**

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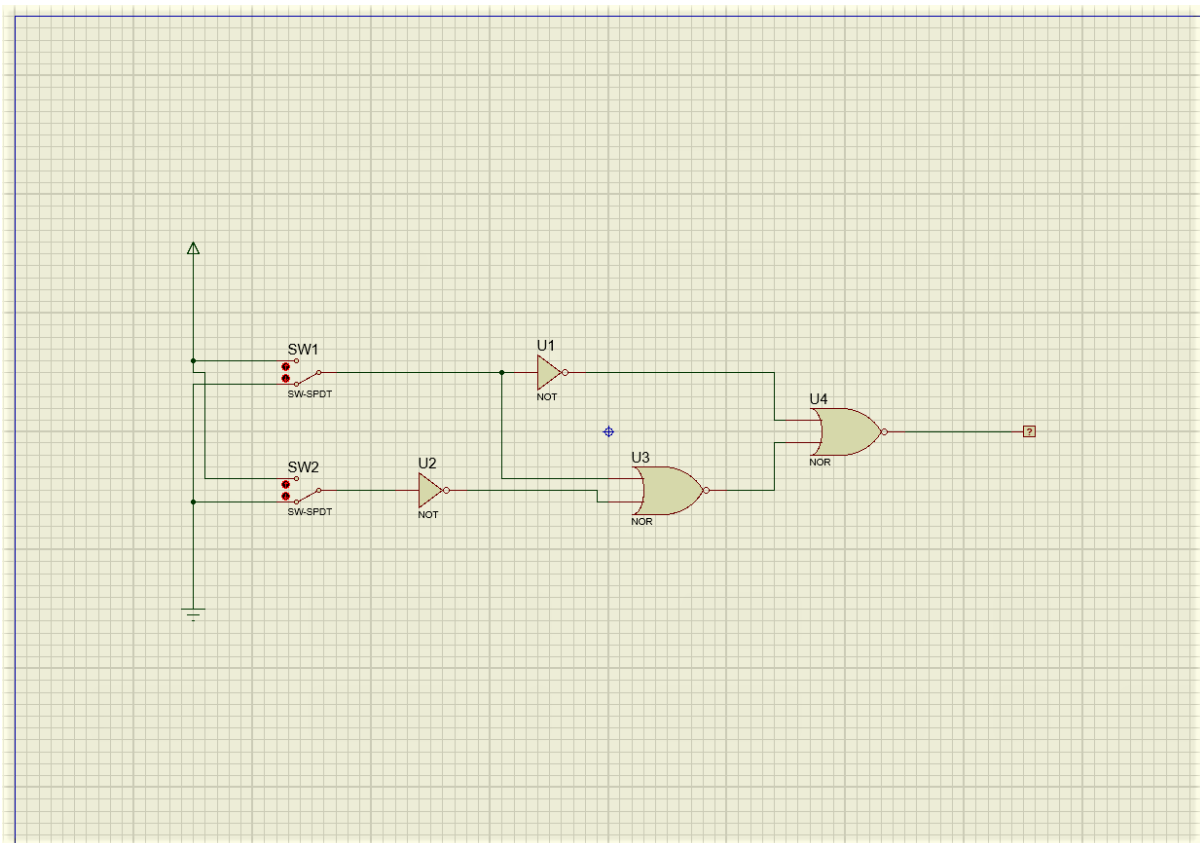
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**INFORMATION TECHNOLOGY**

**FACULTY OF COMMUNICATION AND INFORMATICS**

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## Additional Experiment 1.



Picture 6.1. Set of gate

### 1. Truth Table

X	Y	F
0	0	0
0	1	0
1	0	1
1	1	1

### 2. Time Diagram

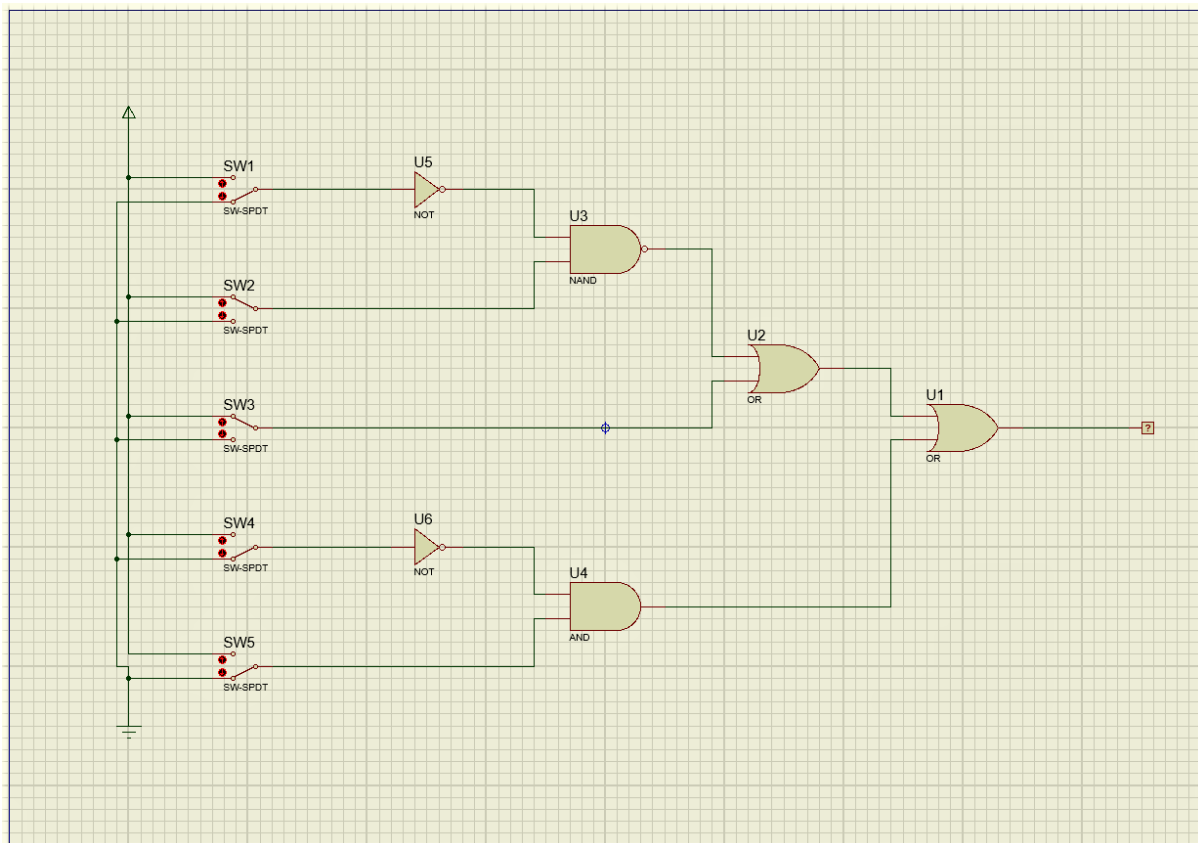
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### 3. Boolean Function

$$F = \neg(\neg X + \neg(X + \neg Y)) = X(X + \neg Y)$$

## Additional Experiment 2.



Picture 7.1. Set of gate for boolean function  $F = (\neg(\neg A.B) + C) + (\neg D.E)$