## UNIVERSIDAD DE GUADALAJARA

## **CUCEI**

CARRERA: INGENERIA EN COMPUTACION

SIMULACION 2: COMPARADOR BINARIO

ALUMNO: EFRAIN ROBLES PULIDO

CODIGO: **221350095** 

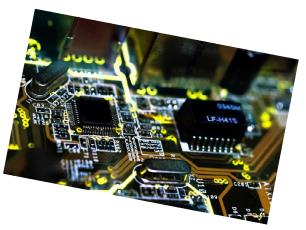
NOMBRE DE LA MATERIA: ARQUITECTURA DE COMPUTADORAS

SECCIÓN: D10 CALENDARIO: 2021B

NOMBRE DE LA PROFESORA: THELMA ISABEL MORALES RAMIREZ









## **Comparador Binario**

# Caso	A		В		A>B	A <b< th=""><th>A=B</th></b<>	A=B
	A1	Ao	B1	Во	M	m	I
0	0	0	0	0	0	0	1
1	0	0	0	1	0	1	0
2	0	0	1	0	0	1	0
3	0	0	1	1	0	1	0
4	0	1	0	0	1	0	0
5	0	1	0	1	0	0	1
6	0	1	1	0	0	1	0
7	0	1	1	1	0	1	0
8	1	0	0	0	1	0	0
9	1	0	0	1	1	0	0
10	1	0	1	0	0	0	1
11	1	0	1	1	0	1	0
12	1	1	0	0	1	0	0
13	1	1	0	1	1	0	0
14	1	1	1	0	1	0	0
15	1	1	1	1	0	0	1

 $\mathbf{M} = (\overline{A_1} \ A_0 \ \overline{B_1} \ \overline{B_0}) + (A_1 \ \overline{A_0} \ \overline{B_1} \ \overline{B_0}) + (A_1 \ \overline{A_0} \ \overline{B_1} \ \overline{B_0}) + (A_1 \ A_0 \ B_1 \ \overline{B_0}) + (A_1 \ \overline{A_0} \ B_1 \ \overline{B_0}) + (\overline{A_1} \ \overline{A_0} \ B_1 \ B_0) + (\overline{A_1} \ \overline{A_0} \ B_1 \ \overline{B_0}) + (\overline{A_1} \ \overline{A_0} \ B_1 \ \overline{B_0}) + (\overline{A_1} \ \overline{A_0} \ B_1 \ B_0)$   $\mathbf{I} = (\overline{A_1} \ \overline{A_0} \ \overline{B_1} \ \overline{B_0}) + (\overline{A_1} \ A_0 \ \overline{B_1} \ B_0) + (A_1 \ \overline{A_0} \ B_1 \ \overline{B_0}) + (A_1 \ \overline{A_0} \ B_1 \ B_0)$