UNIVERSIDAD NACIONAL DE CAJAMARCA



FACULTAD DE INGENIERÍA

ESCUELA ACADÉMICO PROFESIONAL DE INGENIERÍA DE SISTEMAS

"Ejercicio Flujo Máximo "

Asignatura:

• Investigación de Operaciones II

Docente:

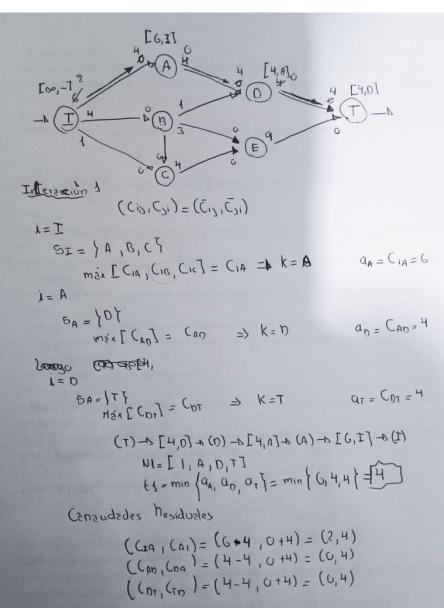
Muñoz Abanto Nestor Elias

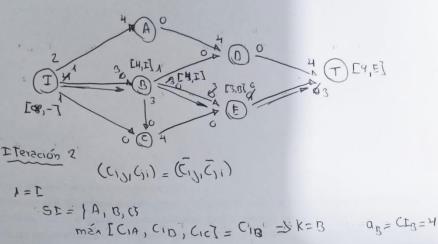
Estudiante:

• Caruajulca Tiglla, Alex Eli

Cajamarca – Perú

2024





$$1=B$$

$$\delta_{\theta} = \{D, E, E\}$$

$$\max \{C_{BD}, C_{BE}, E_{BC}\} = C_{BE} \Rightarrow K=E \quad \alpha_{E} = C_{BE} = 3$$

$$i = E$$

$$5E = \{t\}$$

$$max[CET] = CET \implies k = t$$

$$0T = CET = 9$$

$$(\tau) \rightarrow [4, E] \rightarrow (E) \rightarrow [3, B] \rightarrow (B) \rightarrow [4, I] \rightarrow (E)$$

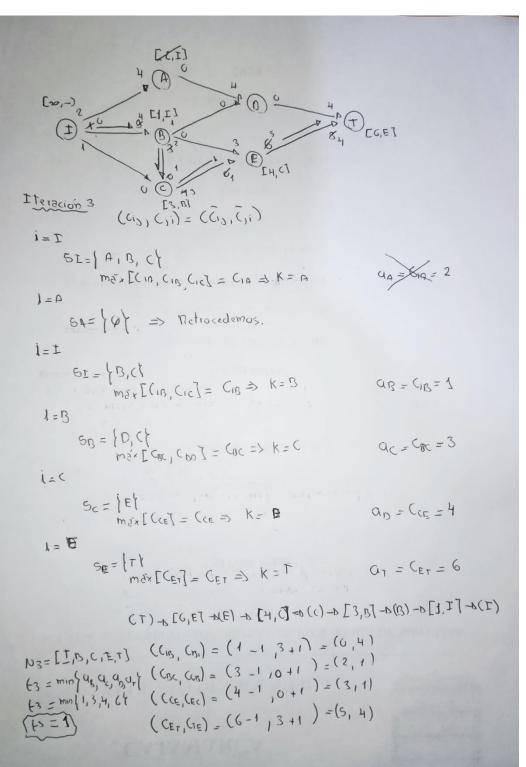
$$N_2 = [I, B, E, T]$$

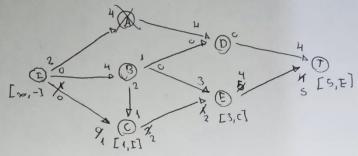
$$t_2 = min \{ a_B, a_E, a_T \} = min \{ 4, 3, 9 \} = [3]$$

Canacidades Residuales

$$((G_{E_1}, C_{E_0}) = (4+3, 0+3) = (4,3)$$

 $(G_{E_1}, G_{E_0}) = (3-3, 0+3) = (0,3)$
 $(G_{E_1}, G_{E_0}) = (4-3, 0+3) = (6,3)$





Capadadas nesiduales

Resiductes
$$(C_{1C_{1}}, C_{C_{1}}) = (1-1, 0+1) = (0, 1)$$

$$(C_{1C_{1}}, C_{C_{1}}) = (3-1, 1+1) = (2, 2)$$

$$(C_{1C_{1}}, C_{1C_{1}}) = (5-1, 4+1) = (4, 5)$$

RESPUESTA.

Flujo Háximu =
$$f1+f2+f3+f4$$

= $4+3+1+1$
= $9 \times$