

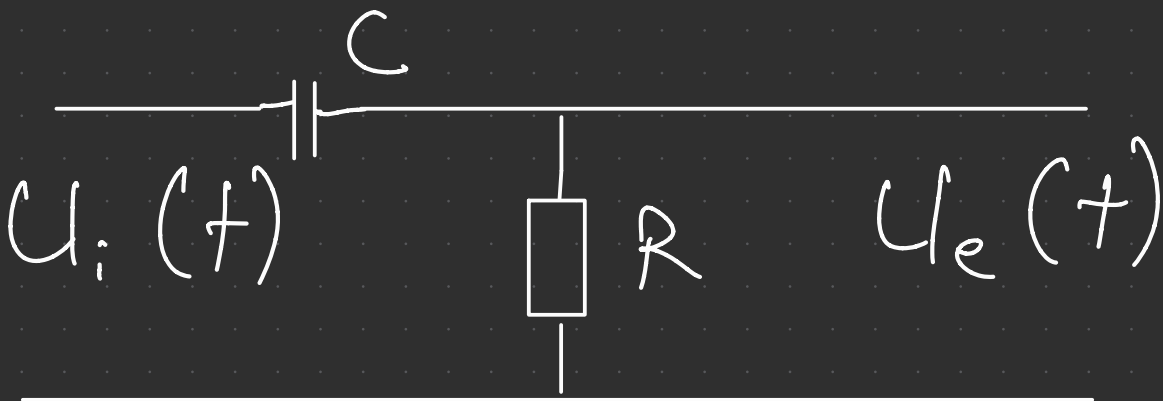
# Circuite Liniare

## RC Trece - Sus

### ① Scopul lucrării

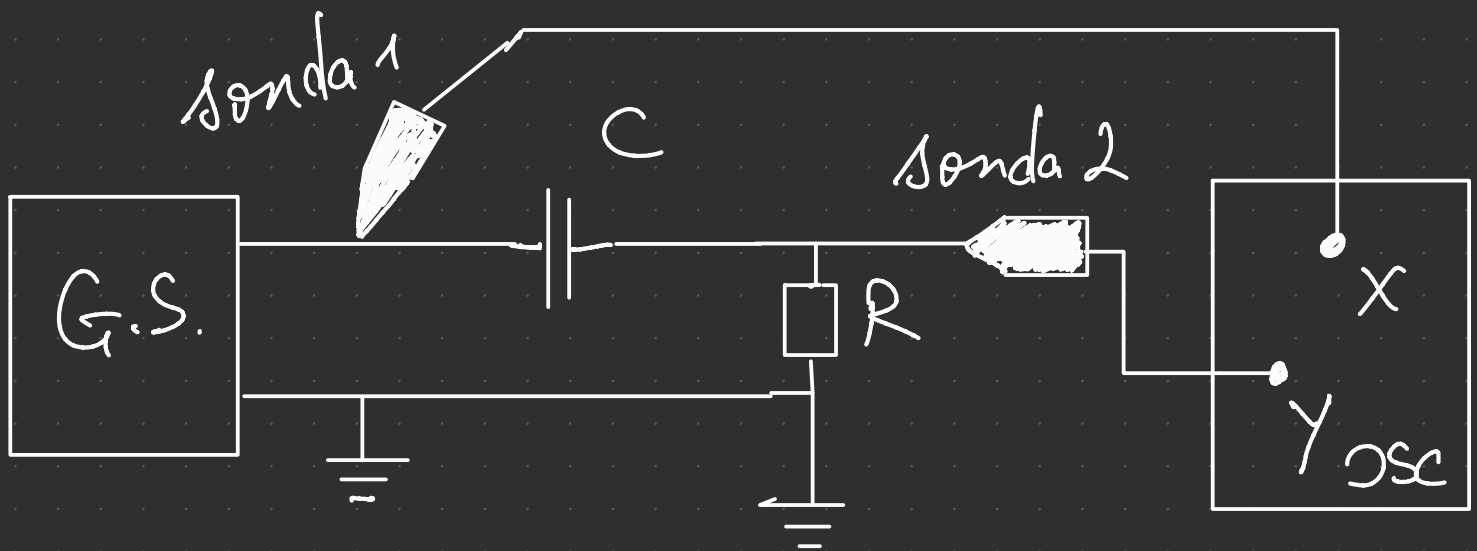
Se va studia experimental trecerea semnalelor de diferite forme (sinusoide, rectangulare, exponențiale) prin circuitele RC trece-sus, observându-se fenomenul de distorsiune suferit de semnalul ce se transmite prin astfel de circuit.

### ② Circuitul





### (3) Mersul lucrării



#### 3.1) Semnal de intrare sinusoidal

$$R = 12 \text{ k}\Omega$$

$$U_{i,v} = 5 \text{ V}$$

$$C = 470 \text{ pF}$$

$$f_1 = 4 \cdot 10^5 \text{ Hz}$$

$$f_2 = 4 \cdot 10^4 \text{ Hz}$$

$$f_3 = 4 \cdot 10^3 \text{ Hz}$$

a) Oscilogramme      b)  $f; A$

### 3.2) Signal de intrare rectangular

$$R = 12 \text{ k}\Omega$$

$$U_{in} = 5 \text{ V}$$

$$C = 470 \text{ pF}$$

$$f_1 = 4 \cdot 10^5 \text{ Hz}$$

$$f_2 = 4 \cdot 10^4 \text{ Hz}$$

$$f_3 = 4 \cdot 10^3 \text{ Hz}$$

a) Oscilogramme

b)  $t_c$

c)  $U_1, U_1', U_2, U_2'$