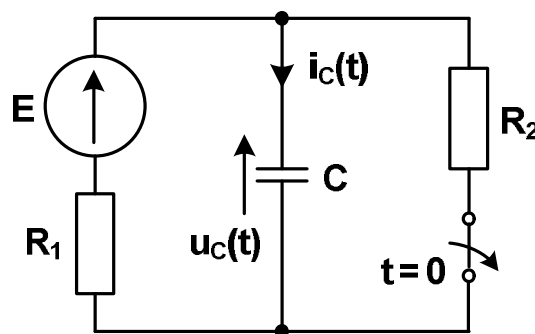


Module name: **Electrical Circuits 2**
Module ID: **IS-FEE-10085S**
Module type: **Class**
Semester: **summer 2024/2025**
Instructor: **Jarosław Forenc**, j.forenc@pb.edu.pl

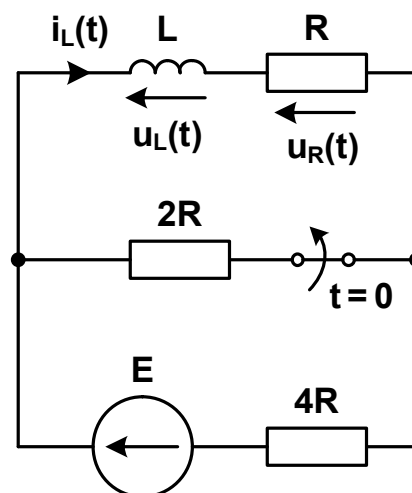
Class 11 (27.05.2025)

1. The circuit shown in the figure has been in a steady-state. The switch was open at $t = 0$. Calculate and plot $i_C(t)$ and $u_C(t)$ for $t < 0$, $t = 0$ and $t > 0$.

$E = 100 \text{ V}$, $R_1 = 20 \Omega$, $R_2 = 40 \Omega$, $C = 10 \text{ mF}$.

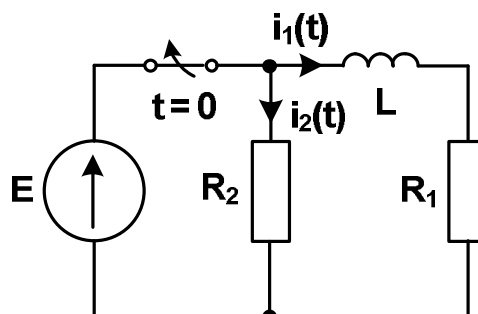


2. The circuit shown in the figure has been in a steady-state. At $t = 0$ the switch was open. Find and plot $i_L(t)$, $u_L(t)$, and $u_R(t)$ for $t < 0$, $t = 0$, and $t > 0$.



3. The circuit shown in the figure has been in a steady-state. The switch was open at $t = 0$. Plot $i_1(t)$ and $i_2(t)$ for $t < 0$, $t = 0$ and $t > 0$.

$E = 100 \text{ V}$, $L = 0.1 \text{ H}$, $R_1 = 25 \Omega$, $R_2 = 75 \Omega$.



27.05.2025

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