Module name: Electrical Circuits 2

Module ID: IS-FEE-10085S

Module type: Class

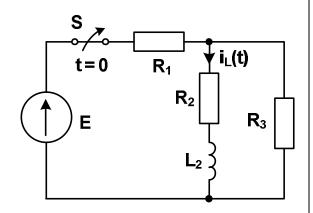
Semester: summer 2024/2025

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Class 10 (20.05.2025)

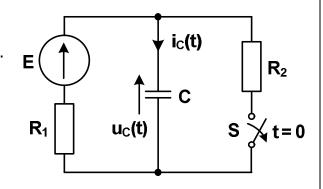
The circuit shown in the figure has been in a steady-state. The switch was open at t = 0. Find and plot i_L(t) for t < 0, t = 0 and t > 0.

E = 80 V,
$$R_1$$
 = 120 Ω , R_2 = 50 Ω , R_3 = 200 Ω , L_2 = 0.75 H.



2. 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 V, R₁ = 20
$$\Omega$$
, R₂ = 40 Ω , C = 10 mF.



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