



IMS Engineering College, Ghaziabad

Department of Electrical & Electronics Engineering

BASIC ELECTRICAL ENGINEERING (KEE101T)

TUTORIAL: 02

1. A series R-L-C circuit consists of $R = 100 \text{ Ohm}$, $L = 100 \text{ mH}$ and $C = 10 \mu\text{F}$. The applied voltage across the circuit is 100 V .
(i) Find the resonant frequency of the circuit.
(ii) Find the quality factor of the circuit at the resonant frequency.
(iii) At what angular frequencies do the half power points occur?
(iv) Calculate the bandwidth of the circuit.
[AKTU, 2021-22]
2. Three impedances of $(70.7 + j 70.7) \text{ Ohm}$, $(120 + j 160) \text{ Ohm}$ and $(120 + j 90) \text{ Ohm}$ are connected in parallel across a 250 V supply. Determine (i) admittance of the circuit (ii) supply current and (iii) circuit power factor.
[AKTU, 2021-22]
3. A balanced star connected load of $(6+j8) \text{ ohm}$ per phase connected to a balanced 3 phase, 400V supply. Find the line current, power factor, power and total volt-amperes.
[AKTU, 2020-21]
4. If load draws a current of 10A at 0.8 p.f. lagging, when connected to 100 volt supply, calculate the values of real, reactive and apparent powers. Also find the resistance of the load.
[AKTU, 2020-21]
5. If the bandwidth of a resonant circuit is 10 KHz and the lower half power frequency is 120 KHz , find out the value of the upper half power frequency and the quality factor of the circuit.
[AKTU, 2019-20]
6. The instantaneous values of two alternating voltages are represented by $V_1 = 60 \sin \theta$ and $v_2 = \sin (\theta - \pi/3)$. Derive expressions for the instantaneous values of (i) the sum and (ii) the difference of these voltages.
[AKTU, 2019-20]
7. A balanced delta connected load of $(12 + j 9) \Omega/\text{phase}$ is connected to 3-phase 400 V supply. Calculate line current, power factor and power drawn by it. [AKTU, 2019-20]
8. A series circuit consists of a resistance of 10Ω , and inductance of 50mH and a variable capacitance in series across a 100 V , 50 Hz supply. Calculate-
(i) The value of capacitance to produce resonance.
(ii) Voltage across the capacitance.
(iii) Q-factor
[AKTU, 2018-19]
9. Three identical coils of resistance 8Ω and inductive reactance 6Ω are connected in delta across 400V mains. Determine power, power factor and line current. [AKTU, 2018-19]
10. A series circuit consists of a resistance of 10Ω , and inductance of 50mH and a variable capacitance in series across a 100V , 50Hz supply. Calculate
a) The value of capacitance to produce resonance.
b) Voltage across the capacitance
c) Q-factor
[AKTU, 2018-19]
11. Calculate average value, rms value, form factor and peak factor of the following waveform shown in figure
[AKTU, 2017-18]

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S Ben Porath



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