

COURSE OBJECTIVES:

- To introduce the basics of electric circuits and analysis
- To impart knowledge in the basics of working principles and application of electrical machines
- To introduce analog devices and their characteristics
- To educate on the fundamental concepts of digital electronics
- To introduce the functional elements and working of measuring instruments

UNIT I ELECTRICAL CIRCUITS**9**

DC Circuits: Circuit Components: Conductor, Resistor, Inductor, Capacitor – Ohm's Law - Kirchhoff's Laws –Independent and Dependent Sources – Simple problems- Nodal Analysis, Mesh analysis with Independent sources only (Steady state)

Introduction to AC Circuits and Parameters: Waveforms, Average value, RMS Value, Instantaneous power, real power, reactive power and apparent power, power factor – Steady state analysis of RLC circuits (Simple problems only)

UNIT II ELECTRICAL MACHINES**9**

Construction and Working principle- DC Separately and Self excited Generators, EMF equation, Types and Applications. Working Principle of DC motors, Torque Equation, Types and Applications. Construction, Working principle and Applications of Transformer, Three phase Alternator, Synchronous motor and Three Phase Induction Motor.

UNIT III ANALOG ELECTRONICS**9**

Resistor, Inductor and Capacitor in Electronic Circuits- Semiconductor Materials: Silicon & Germanium – PN Junction Diodes, Zener Diode –Characteristics Applications – Bipolar Junction Transistor-Biasing, JFET, SCR, MOSFET, IGBT – Types, I-V Characteristics and Applications, Rectifier and Inverters

UNIT IV DIGITAL ELECTRONICS**9**

Review of number systems, binary codes, error detection and correction codes, Combinational logic - representation of logic functions-SOP and POS forms, K-map representations - minimization using K maps (Simple Problems only).

UNIT V MEASUREMENTS AND INSTRUMENTATION**9**

Functional elements of an instrument, Standards and calibration, Operating Principle, types -Moving Coil and Moving Iron meters, Measurement of three phase power, Energy Meter, Instrument Transformers-CT and PT, DSO- Block diagram- Data acquisition.

TOTAL: 45 PERIODS**COURSE OUTCOMES:**

- After completing this course, the students will be able to
- CO1: Compute the electric circuit parameters for simple problems
- CO2: Explain the working principle and applications of electrical machines
- CO3: Analyze the characteristics of analog electronic devices
- CO4: Explain the basic concepts of digital electronics
- CO5: Explain the operating principles of measuring instruments

TEXT BOOKS:

1. Kothari DP and I.J Nagraath, "Basic Electrical and Electronics Engineering", Second Edition, McGraw Hill Education, 2020
2. S.K.Bhattacharya "Basic Electrical and Electronics Engineering", Pearson Education, Second Edition, 2017.
3. Sedha R.S., "A textbook book of Applied Electronics", S. Chand & Co., 2008
4. James A .Svoboda, Richard C. Dorf, "Dorf's Introduction to Electric Circuits", Wiley, 2018.
5. A.K. Sawhney, Puneet Sawhney 'A Course in Electrical & Electronic Measurements & Instrumentation', Dhanpat Rai and Co, 2015.

REFERENCES:

1. Kothari DP and I.J Nagraath, "Basic Electrical Engineering", Fourth Edition, McGraw Hill Education, 2019.
2. Thomas L. Floyd, 'Digital Fundamentals', 11th Edition, Pearson Education, 2017.
3. 4. Albert Malvino, David Bates, 'Electronic Principles, McGraw Hill Education; 7th edition, 2017.
5. Mahmood Nahvi and Joseph A. Edminister, "Electric Circuits", Schaum' Outline Series, McGraw Hill, 2002.
6. H.S. Kalsi, 'Electronic Instrumentation', Tata McGraw-Hill, New Delhi, 2010

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Crack UPSC in First Attempt Civil Services Exam IAS/IPS/IFS K. Kohli ,2024-05-08 In the hustle to make career that is regulated by society most give up on their dreams and passions But for K Kohli writing was a compulsion not a choice That s how passion manifests It s like the mountain course of the river that forces its way through the roughest of the terrains Born in Delhi graduated from St Stephens College University of Delhi He is an inspirational speaker who motivates young people to pursue careers in civil services and community development He continues to be an exemplary figure demonstrating how individuals can make a profound impact on their communities through dedication hard work and a deep sense of social responsibility The Civil Services have risen in social reckoning as a career due to its significant role in bringing government s policies to the people and making development possible on ground like a rainmaker Qualifying for the Civil Services is also considered as a mark of talent and success given that it requires passing through a multi stage rigorous system of examination and interview Apart from job security and satisfaction the services provide ample opportunities and challenges to prove one s mettle and also to contribute and give back to society In India the Civil Service is defined as appointive positions by the Government in connection with the affairs of the Union and includes a civilian in a Defence Service except positions in the Indian Armed Forces This exam is not for people who believe in shortcuts who are impatient and casual It seeks such people who believe in rigorous study Only the candidates who are thoroughly organised disciplined and determined can taste it s success ultimately the country needs officers equipped with these qualities If those candidates who have a profusion of the aforesaid qualities get the right guidance then they can definitely crack the IAS exam This book has been prepared for such deserving and appropriate candidates We are not just hopeful but have complete faith that his book will definitely work as a useful guidance in making the honest and strong willed candidates as IAS Move forward with Heart within and God overhead Connect at kohlifoundationindia gmail com *College Credit Recommendations* ,2002

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