

PROGRESS RECORD: Electronics Engineering

Study your lessons in the order listed below.

Number of lessons: 89

Completion Time: 30 months

- 1 5110 Solving Linear Equations
- 2 5112 Algebraic Signs and Exponents
- 3 5210 Kirchhoff's Laws
- 4 5115 Algebraic Fractions
- 5 5116 Applied Fractional Equations
- 6 5213 Basic Circuit Principles Applied to Practical Design
- 7 3463 Digital Switching Units
- 8 3104 Binary Coding and Computer Arithmetic
- 9 3464 Logic Circuit Tracing Using Boolean Algebra
- 10 3465 Pulse Processing Circuits
- 11 5217 Network Theorems
- 12 5118 Coordinates and Angle Functions
- 13 5119 Applications of Trigonometric Functions
- 14 5122 Exponents, Radicals, and Complex Numbers
- 15 5123 Phasor Representation of Steady-State Circuits
- 16 5155 Analytical Geometry-First Degree Equations
- 17 5158 Some Basic Concepts of Calculus
- 18 5215 Signal Waveforms and Their Application
- 19 5403 An Introduction to Solid-State Design - Part-I
- 20 5216 Advanced Network Theorems
- 21 5406 Diode Networks
- 22 5409 An Introduction to Solid State Design - Part-II
- 23 5412 An Introduction to Solid State Design - Part-III
- 24 5231 Ohm's and Kirchhoff's Laws applied to A-C Circuits
- 25 3102 Logarithms

26	4201	Decibels
27	5232	AC Circuit Analysis
28	5233	AC Power and Solving Stage Coupling Problems
29	5234	Resonant Circuits
30	5125	Systems of Linear Equations
31	5626	Linear Network Analysis
32	5630	Simplifying Network Analysis by using Determinants
33	5631	Practical Matrix Theory for Engineers
34	5633	Two Port Linear Networks
35	5140	Quadratic Equations and Systems
36	5142	Higher Order Equations
37	5146	Trigonometric Equations and Identities
38	5150	Theory of Logarithms and Series
39	3126	Natural Logarithms
40	6202	Calculus Part I- Analytical Geometry- 2nd Degree Equations
41	6204	Calculus Part II - Basic Concepts in Differential Calculus
42	6206	Calculus Part III - Further Differential Techniques & Applications of the Derivative
43	6208	Calculus Part IV - Fundamentals of Integration
44	6210	Calculus Part V - Applying Integral Calculus
45	6212	Calculus Part VI - Derivatives of Transcendental Functions
46	6214	Calculus Part VII - Integrating Transcendental Functions
47	6216	Calculus Part VIII - Series Representations & Indeterminate Forms
48	6218	Calculus Part IX Fourier Series & Differential Equations
49	3466	Digital IC Families with Practical Operating Req.
50	3467	Important Digital Integrated Circuits

51 3468 Digital Systems and How to Troubleshoot Them

52 3342 Circuit Response to Non-Sinusoidal Waveforms

53 6420 Transient Analysis - Part I

54 6421 Transient Analysis - Part II

55 6422 Transient Analysis - Part III

56 6423 Transient Analysis - Part IV

57 6424 Transient Analysis - Part V

58 6425 Transient Analysis - Part VI

59 6370 Steady State and Transient Network Analysis

60 6371 Resonant Circuits and Coupled Networks

61 6372 Filters

62 6373 Equalizers and Filter Network Synthesis

63 6374 Tuned Amplifiers

64 2431 Operational Amplifiers

65 5203 Basic Physics

66 5801 Static Magnetic Field Theory

67 5665 Electric Field Physics

68 2520 Fundamentals of Electricity Magnetism,
Mechanics and Heat

69 2522 DC Generators

70 2524 DC Motors and Efficiency of Electrical Machines

71 2526 Three Phase Circuits and Transformers

72 2528 Three Phase Induction Motors

73 2530 Selection and Application of Three Phase
Induction Motors

74 2532 Single-Phase Motors

75 7510A Intro to Electronic Communication

76 7511A Frequency Generation

77 7512A Amplitude Modulation Transmission & Reception

- 78 7513A Phase-Locked Loops & Frequency Synthesizers
- 79 7514A Single-Sideband Communication Systems
- 80 7515A Angle Modulation Transmission
- 81 7516A Angle Modulation Receivers and Systems
- 82 7660A Transmission Lines
- 83 7661A Wave Propagation
- 84 7662A Antennas
- 85 7663A Digital Communications
- 86 7664A Data Communications
- 87 7665A Digital Transmission
- 88 7666A Frequency-Division Multiplexing &
Microwave Communications
- 89 7667A Satellite Communications
- * 3700 Associate-Level CET Study Guide
Proctored Examination 3750

* Optional lesson, not required for graduation and not graded.