

week	syllabus
1 st	Electronic values (review).
2 nd , 3 rd	Semiconductor's materials and PN junctions.
4 th , 5 th	Diode applications.
6 th , 7 th	Bipolar junctions' transistor (characteristics and biasing).
8 th , 9 th	Special diodes.
10 th , 11 th	Field effect transistor (characteristics and biasing).
12 th	Small signal amplifier.
13 th , 14 th	Other semiconductor devices.
15 th , 16 th	Optoelectronic devices.
17 th , 18 th	Frequency response.
19 th , 20 th	Negative feedback.
21 st	Differential amplifier.
22 nd	Operation amplifier.
23 rd , 24 th	Basic OP – AMP application.
25 th , 26 th	Sinusoidal oscillator.
27 th , 28 th	Non – sinusoidal oscillator.
29 th , 30 th	Power amplifier.