

Assessed	x	x	x	x	x	x	x	x	x
Give Feedback									

7. Topics and approximate lecture hours:

- Introduction and reminder on general theorems (1 lecture)
- P-type and N-type semiconductors; P-N junction (2 lectures)
- Diodes: characteristics and application circuits (5 lectures)
- Zener diode (1 lecture)
- Applications on diodes (6 lectures)
- Lab: Diodes (1 lecture)
- Bipolar transistor: static operation (2 lectures)
- Applications on bipolar transistors (2 lectures)
- Lab: bipolar transistor – static operation (1 lecture)
- Bipolar transistor: dynamic operation (2 lectures)
- Applications on bipolar transistors (2 lectures)
- Lab: synthesis of amplifier circuits – simulation and realization (2 lectures)
- FET and MOSFET transistors (2 lectures)
- Applications on FET and MOSFET transistors (1 lecture)
- Operational Amplifier: differential structure and differential amplifier (2 lectures)
- Operational Amplifier: static and dynamic performances (2 lectures)
- Application circuits: Log amplifier, instrumentation and isolation OA, active filter... (1 lecture)
- Applications on operational amplifiers (2 lectures)
- Lab: operational amplifier (1 lecture)
- Comparator (+ applications) (2 lectures)
- Lab: electronic mini-project (2 lectures)