Lecture 1: PG1   **PG1_ex.- introduction**
    Semiconductor Diodes
    Diode construction
    Diode Operation
    Diode Equivalent Circuit Models

Lecture 2: MG1   **PG2_ex.- introduction to the measurement_1**
    Diode Load Lines
    Diode Capacitance
    Zener Diodes

Lecture 3: MG2   **PG3_ex.- introduction to the measurement_2**
    Zener Regulator Design
    Alternate Types of Diodes

Lecture 4: PG2   **MG1_exv.- ?**
    Bipolar Transistors
    Transistor Operation
    Transistor Circuits
    Common Circuit Configurations

Lecture 5: PG3   **MG2_ex.- ?**
    Characteristic Curves
    The Common Emitter Amplifier
    Analysis and Design of CE Amplifiers
    Power Consideration

Lecture 6: MG3   **JG1_ex.- measurement_1**
    Introduction to PSPICE Manual
    DC Sweep Analysis in PSPICE
    AC Analysis in PSPICE

Lecture 7 & written examination_1: MG4   **JG2_ex.- measurement_2**
    Bypass and Coupling Capacitors
    ac Load Line for CE Configuration
    ac Analysis and Design
    Emitter- Follower (Common- Collector) Amplifier

Lecture 8: PG4   **JG3_ex.- measurement_3**
    Field- Effect Transistor Amplifiers (FET)
    Advantage and Disadvantage of the FET
    Types of FETs
    JFET Operation and Construction

Lecture 9: MG4   **JG4_ex.- measurement_4**
    Operation Amplifiers in PSPICE
    Natural Response in PSPICE
    Frequency Response in PSPICE
    Fourier Series in PSPICE.

Lecture 10: PG5   **MG3_ex.- ?**
    MOSFET Operation and Construction
    Biasing of FETs
    Analysis of a CS Amplifier
    Design of a CS Amplifier

Lecture 11: MG6   **MG4_ex.- ?**
    Difference Amplifiers
    Current Sources, Active Loads and Level Shifters

Lecture 12: PG6   **MG5_ex.- ?**
    Ideal Operational Amplifiers
    The Inverting Amplifier
    The Noninverting Amplifier
    Practical Operational Amplifiers

Lecture 13: PG7   **MG6_ex.- written examination_2**
    IC Logic Family Operation and Characteristic
    Logic Gates
    Digital Logic Circuits