# Automatic Control (1)

*By*

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# Lecture (1)

# Syllabus

1. Introduction.
2. Fundamentals of mathematics.
3. Transmission Circuits.
4. Block Diagrams.
5. Signal Flow Graphs.
6. Analogue Computer.
7. Mathematical Modeling of Physical Systems.
8. State Space Analysis for Linear Systems.
9. Time Domain Response.
10. Transient Response.

# Syllabus

11 • Stability of Linear Control Systems.

12 • Discrete Time Systems.

13 • Z-Transform.

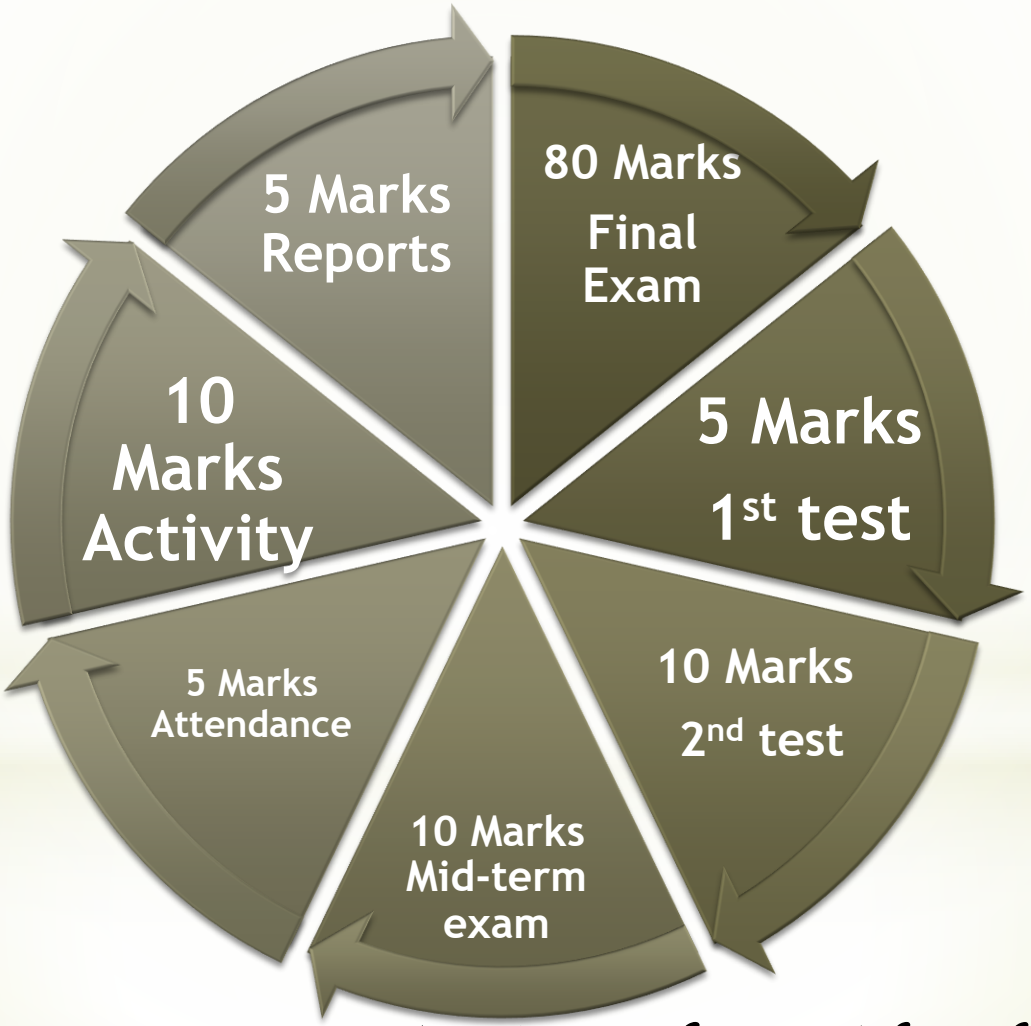
14 • Control System Design for Linear Dynamic Systems.

15 • Non-linear Control Systems.

16 • Stability of Non-linear Control Systems.

17 • Control System Design for Non-linear Dynamic Systems.

# Marks Distribution Chart




*Associate Prof. Dr . Mohamed Ahmed Ebrahim*


# Electrical Circuits Fundamentals
# &
# Laplace Transforms
# Re-visited

*With Our Best Wishes*

*Automatic Control (1)*

*Course Staff*

*Associate Prof. Dr . Mohamed Ahmed Ebrahim*

# Thank You
# For Your Attention

Mohamed Ahmed Ebrahim