**NAME OF THE PROGRAM:** I YEAR B.TECH –II SEM **BRANCH:** AI&ML-A,B

**SUBJECT:** BASIC ELECTRICAL ENGINEERING **FACULTY:** A THIRUPATHI

**Recorded Video Lectures**

**UNIT-1 (DC CIRCUITS)**

# ohm's law

[**https://www.youtube.com/watch?v=3sLoWLrgDUg&list=PLKgHjgV0c0DT9xdWeEqAS\_FSes9NhP8aw&index=1**](https://www.youtube.com/watch?v=3sLoWLrgDUg&list=PLKgHjgV0c0DT9xdWeEqAS_FSes9NhP8aw&index=1)

**Kirchhoff's laws**

[**https://www.youtube.com/watch?v=xRJlSrSnAQA&list=PLKgHjgV0c0DT9xdWeEqAS\_FSes9NhP8aw&index=2**](https://www.youtube.com/watch?v=xRJlSrSnAQA&list=PLKgHjgV0c0DT9xdWeEqAS_FSes9NhP8aw&index=2)

**Examples on KVL , Classification of Basic Elements**

[**https://drive.google.com/file/d/11csVKv8l1faMcwrdQJM9NBYYOC-GoU8A/view?usp=sharing**](https://drive.google.com/file/d/11csVKv8l1faMcwrdQJM9NBYYOC-GoU8A/view?usp=sharing)

# Equivalent Resistance of circuits Part-1

# <https://www.youtube.com/watch?v=3XlXGa7Qk34&list=PLKgHjgV0c0DT9xdWeEqAS_FSes9NhP8aw&index=4>

# How to calculate equivalent resistance for given circuit part-2

# <https://www.youtube.com/watch?v=KOrWc2FCB5o&list=PLKgHjgV0c0DT9xdWeEqAS_FSes9NhP8aw&index=5>

# Passive elements ( Inductor)

# <https://drive.google.com/file/d/1eQwMPy4J98fEdaZaDXfK9hyVO58iGU5K/view?usp=sharing>

# Passive elements ( Capacitors)

# <https://drive.google.com/file/d/1NOWAaFGIqP3FAVqZIK6V6efulj7iAKXq/view?usp=sharing>

# Mesh Analysis (class 1)

# <https://drive.google.com/file/d/1kcL-eNgtNCXGAuJJfaXbsBKouzlxjPnM/view?usp=sharing>

# Mesh Analysis (class 2)

# <https://drive.google.com/file/d/1e0QLKnjEMKwzixPgkFJa61M6KBfeyR7F/view?usp=sharing>

# Mesh Analysis (Class 3)

# <https://drive.google.com/file/d/19hiOMN4P_Aqp80CLL7C28Tn4eYtNdcvm/view?usp=sharing>

# Source Transformation Techniques

# <https://drive.google.com/file/d/1ppOVwpIwWttocX3J9hv3IUrS-36TcygH/view?usp=sharing>

# Current and voltage division rules

[**https://drive.google.com/file/d/1odfcPJ1m4AWJfwCJ7UZ\_kccCweWk8MYC/view?usp=sharing**](https://drive.google.com/file/d/1odfcPJ1m4AWJfwCJ7UZ_kccCweWk8MYC/view?usp=sharing)

# Voltage division rule & Nodal Analysis

[**https://drive.google.com/file/d/1jT0kXhjN\_ilIgFrRncFlsh3hUj3JR-E3/view?usp=sharing**](https://drive.google.com/file/d/1jT0kXhjN_ilIgFrRncFlsh3hUj3JR-E3/view?usp=sharing)

# Nodal Analysis (class 2)

[**https://drive.google.com/file/d/1zoyuRkQT\_Z\_cwCr86fXdzr-KZAw7k-Ij/view?usp=sharing**](https://drive.google.com/file/d/1zoyuRkQT_Z_cwCr86fXdzr-KZAw7k-Ij/view?usp=sharing)

# Thevenin's theorem (Class 1)

# <https://drive.google.com/file/d/1sBcWEfLeu1TbLP_sT7qAdtTRcyOBRM50/view?usp=sharing>

# Thevenin's Theorem (Class 2)

# <https://drive.google.com/file/d/1DlgxwO7p2SxK3dhOFC0orzMXzgjZFdrh/view?usp=sharing>

# Norton's Theorem (Class 1)

# <https://drive.google.com/file/d/1Y7VXH6DPwHRzU_5jlCcxP4AmZPI_cl_T/view?usp=sharing>

# Norton's Theorem (Class 2)

# https://drive.google.com/file/d/1wE7LAcnUQFxRuuXdDHzDgp8S8iVUQ0aa/view?usp=sharing