

## 1-ACA Unit 1

### 1.ACA-Fundamental and Trends

[https://youtu.be/sboeCriiy\\_M](https://youtu.be/sboeCriiy_M)

### 2. Trends and Performance Metrics

<https://youtu.be/cB1EZMrDXpA>

### 3. Moore's Law&Flynn's classification

<https://youtu.be/XNdIoAHSoQk>

### 4. Defining computer architecture & ISA

<https://youtu.be/vJzEpeaJngU>

### 5. Trends in technology-Power

<https://youtu.be/bKmV6T10NLs>

### 6. Trends in Cost

<https://youtu.be/yljb0x7MCtc>

### 7.Trend in reliability & performance

<https://youtu.be/Md-4GXe-qtU>

### 8.Amdahal's Law

<https://youtu.be/dH19ZR022k>

### 9. Iron law

<https://youtu.be/-Sm53y4UYHw>

## 2-ACA Unit 2

### 1. Memory Hierarchy basics

<https://youtu.be/MPBJuwzG-ss>

### 2. Cache Coherence

<https://youtu.be/zMG-xZ7Nago>

### 3. Cache performance & mapping

<https://youtu.be/JyIDtIK2xX4>

### 4. Direct mapping practice

<https://youtu.be/sK7f4EzNhNY>

### 5.Fully associative mapping

[https://youtu.be/Arab5Kd\\_2r8](https://youtu.be/Arab5Kd_2r8)

### 6. Set associative mapping

[https://youtu.be/d\\_kQWLgsgws](https://youtu.be/d_kQWLgsgws)

### 7. cache optimization

<https://youtu.be/-Zj5Ei5kvU4>

### 8.cache optimization 2

[https://youtu.be/CK0bMO\\_JX6Y](https://youtu.be/CK0bMO_JX6Y)

### 9. Advanced cache optimization

<https://youtu.be/ka3byYqFKa8>

10.Virtual Memory

<https://youtu.be/aYGhs90HoLE>

11. Fast addressing translation

<https://youtu.be/T3o1KLJphHY>