Core-Based Embedded System Design
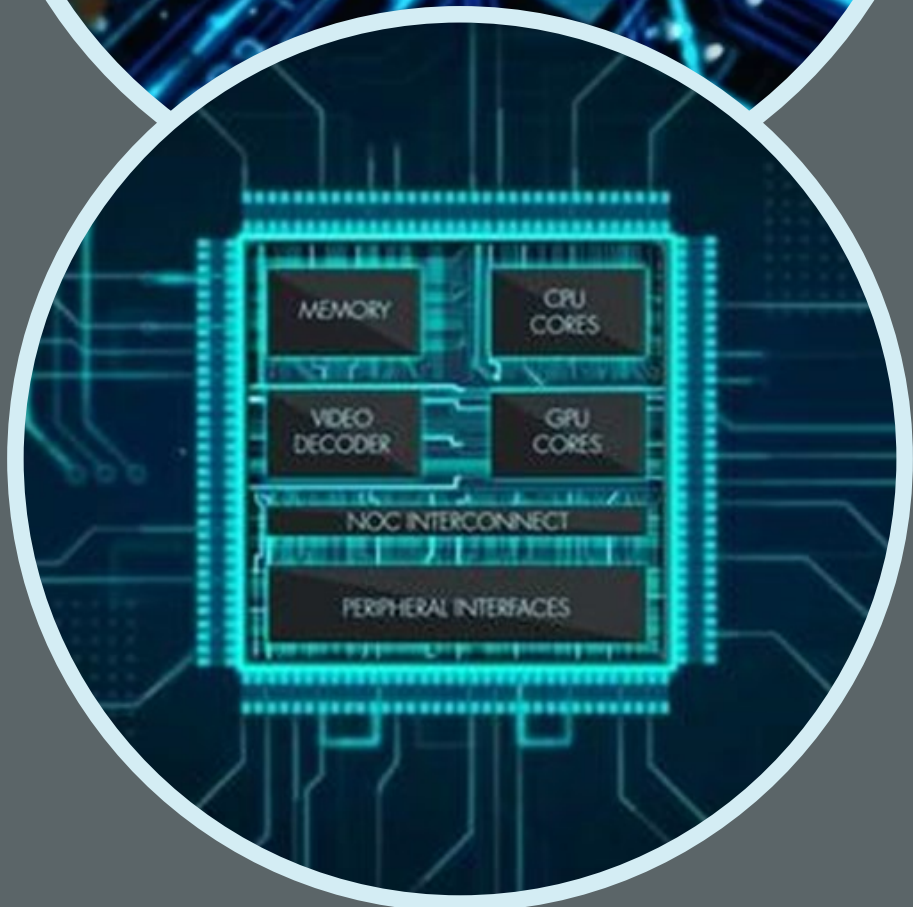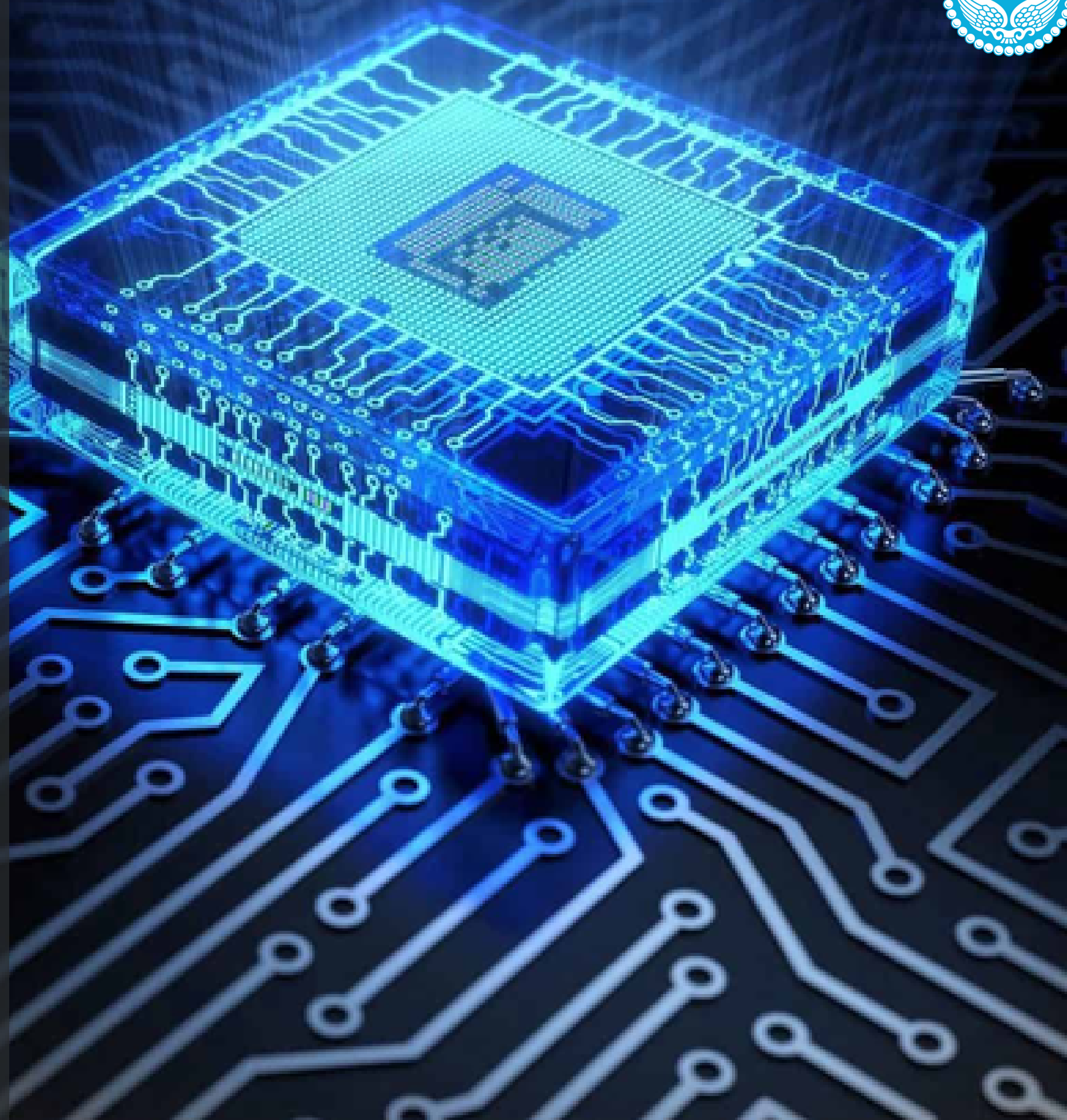
SoC Design: A Journey from Core Development to Integration

ECE 8101160

Sunday-Tuesday 14:00-15:30

Class No. 10

Course Outline

- ✔ Technology Trends
- ✔ Advanced Processor Techniques
- ✔ Communication Interfaces
- ✔ Memory Structures
- ✔ Accelerator Design
- ✔ SoC Frameworks

Covered advanced SoC design concepts

- ✔ Superscalar Processors
- ✔ Out-of-order Execution
- ✔ PCI Express
- ✔ Cache & Cache Coherency
- ✔ Neural Network Hardware Accelerator

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