

#### **SNS COLLEGE OF TECHNOLOGY**



Coimbatore-35
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

19ECT312 – EMBEDDED SYSTEM DESIGN

Processor and memory strategic selection /19ECT312/Embedded systems Design / Mrs.E.Ramya/AP/ECE/SNSCT III YEAR/ VI SEMESTER

UNIT 1 – INTRODUCTION TO EMBEDDED SYSTEMS

**TOPIC** -strategy selection of Processor & memory

1/22/2024





**Step 1: Choose between AMD and Intel** 

**Step 2: Check processor labels and generations** 

**Step 3: Enquire about cores and threads** 

**Step 4: Know more about Integrated Graphics** 

**Step 5: Clocks and IPC** 

**Step 6: Power and thermals specifications** 

How To Choose The Right Processor For Your Laptop?





Intel Processor Familie	AMD Procesor Familie
Intel Celeron, Intel Pen	AMD A4, AMD A6
Intel Core i3,	AMD A8- A10, AMD Ry
Intel Core i3, Intel Core	AMD Ryzen 5, AMD Ry
Intel Core i5, Intel Core	AMD Ryzen 5, AMD Ry
Intel Core i5, Intel Core	AMD Ryzen 5, AMD Ry
Intel Core i7, Intel Core	AMD Ryzen 7
	Intel Celeron, Intel Pen Intel Core i3, Intel Core i3, Intel Core Intel Core i5, Intel Core Intel Core i5, Intel Core





#### How do you select processor and memory for an embedded system?

its performance.

architecture and its silicon design.

Evolution of fabrication techniques helped packing more transistors in

same area

there by reducing the propagation delay

What are the important considerations when selecting a processor?

- the number of cores needed,
- what the computer will be used for,
- the type of software to be run,
- •processor compatibility, and the speed of the CPU.







#### What is memory selection?

to store flight software,

payload data,

health monitoring data, etc.

enough RAM to execute all the software.

Different type of memories can be classified as follows:-

Volatile memory:

It requires constant power to maintain the stored information.







#### **SUMMARY & THANK YOU**