



# 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  
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#### UNIT 1 – INTRODUCTION TO EMBEDDED SYSTEMS

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



# STRATEGY SELECTION OF PROCESSOR & MEMORY



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

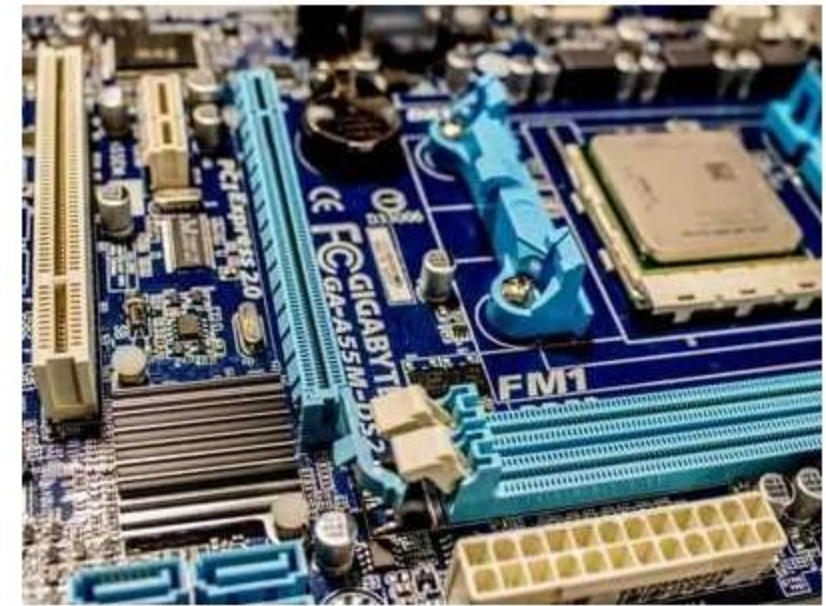
**Step 2: Check processor labels and generations**

**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**



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**How To Choose The Right Processor For Your Laptop?**



# STRATEGY SELECTION OF PROCESSOR & MEMORY



Requirements	Intel Processor Families	AMD Processor Families
Browsing or Chatting	Intel Celeron, Intel Pentium	AMD A4, AMD A6
Watching or Streaming	Intel Core i3,	AMD A8- A10, AMD Ryzen
Office Work or Study	Intel Core i3, Intel Core i5	AMD Ryzen 5, AMD Ryzen 7
Programming	Intel Core i5, Intel Core i7	AMD Ryzen 5, AMD Ryzen 7
Gaming	Intel Core i5, Intel Core i7	AMD Ryzen 5, AMD Ryzen 7
Designing	Intel Core i7, Intel Core i9	AMD Ryzen 7



# STRATEGY SELECTION OF PROCESSOR & MEMORY



**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.**







# STRATEGY SELECTION OF PROCESSOR & MEMORY



## 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