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

III YEAR/ VI SEMESTER

1

UNIT 1 – INTRODUCTION TO EMBEDDED SYSTEMS

TOPIC 9 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

Image Cedits: Pexels

How To Choose The Right Processor For Your Laptop?

STRATEGY SELECTION OF PROCESSOR & MEMORY

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

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?

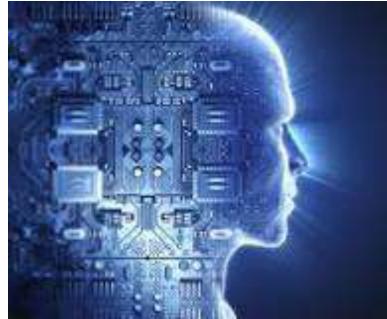to store flight software,

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