LECTURE 4

Criteria to choose microcontroller

Topics to be covered

Criteria to choose microcontroller

CRITERIA OF CHOOSING MICROCONTROLLER

MEETING THE COMPUTING NEEDS OF THE TASK AT HAND EFFICIENTLY & COST EFFECTIVELY. (SPEED, PACKAGING, POWER

CONSUMPTION ETC.)

• AVAILABILITY OF SOFTWARE DEVELOPMENT

TOOLS SUCH AS COMPILERS, ASSEMBLERS &

DEBUGGERS

• WIDE AVAILABILITY & RELIABLE SOURCES OF

THE MICROCONTROLLER.

DIFFERENT TYPE OF MICROCONTROLLERS

EMBEDDED MICROCONTROLLERS:

- When all the hardware required to run the application is provided on the chip, it is referred as an **embedded**Microcontrollers.
- They are replacing devices like 555 timers because
 they are actually cheaper to use in applications
- They are more precise
- Thou are easier to control

DIFFERENT TYPE OF MICROCONTROLLERS

EXTERNAL MEMORYMICROCONTROLLERS:

The microcontrollers which allows the connection of external memory.

Higher-end microcontrollers (16 and 32 bit

processor) have only external memory.

 These are different from microprocessor in the

area of built-in peripheral features.