(8)

→ The VLSI design flow is a series of steps used to create a complex integrated circuit (IC) or System on chip (SoC).

Here are the key stages involved in the VLSI design flow :

(1) System specification :

The objective of the desired final Product is written in this step. During System specification, the designated cost of the system, its performance, architecture are determined.

(2) Architectural Design :

this is step where main work start with the help of system specifications.

(3) Functional Design :

In this step functionality of the design are identified. It specify the hardware implementation of system Functionality.

(4) Logic Design :

In this step, the structure of the desired ~~logic~~ design is added to the behavioral representation of the desired design.

(5) Circuit design,

In this step circuit is designed based on the logic design. circuit simulation is used to verify the correctness and timings of each component. Logic blocks are placed by electronic components like resistors, capacitors & transistors.

(6) Physical design,

In physical design floor planning and placement is done. when all the elements are placed a global and detailed routing is running to connect all the elements together.