

PRODUCT CYCLE & DESIGN PROCESS

Course : Computer Aided Machine Drawing

19ME304

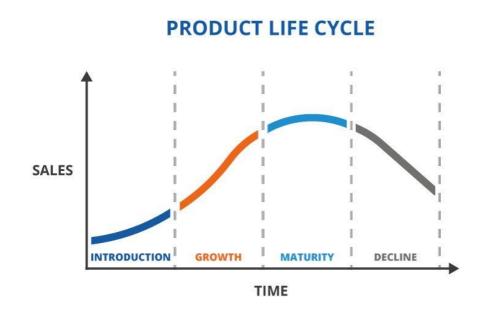
Unit -1 Fundamentals of Computer Graphics

II Year / III Semester
Mechatronics and Mechanical
Engineering (AM)





TOPIC OF THE DAY









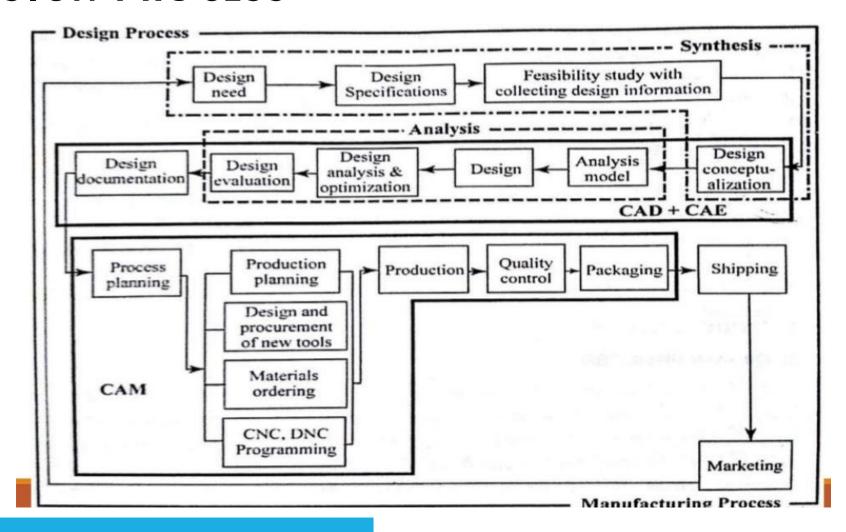
PRODUCT CYCLE

- •The cycle through which a product goes from development to retirement.
- •The product cycle starts with developing the product concept, enveloping the design, engineering the product, manufacturing the part, marking and servicing.
- •The product undergoes the following processes
- Design process
- Manufacturing process





DESIGN PROCESS







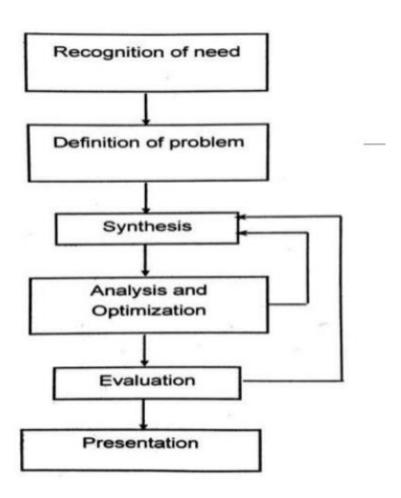
DESIGN PROCESS

- Design is the activity that needs to be well organized and should take into account all influences.
- The following models are considered for design purpose:
- Shingley
- Pahl and Beitz
- Ohsuga
- Earle





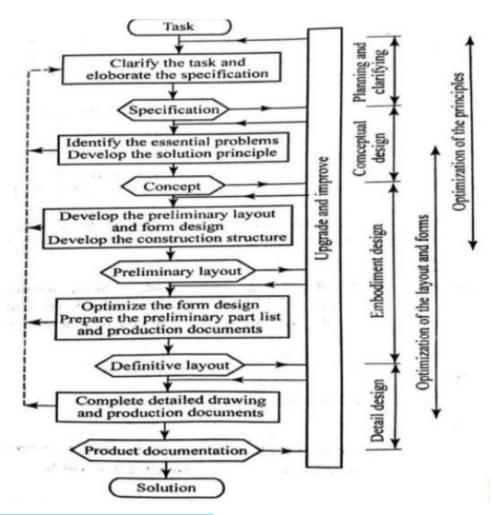
SHINGLEY'S DESIGN PROCESS







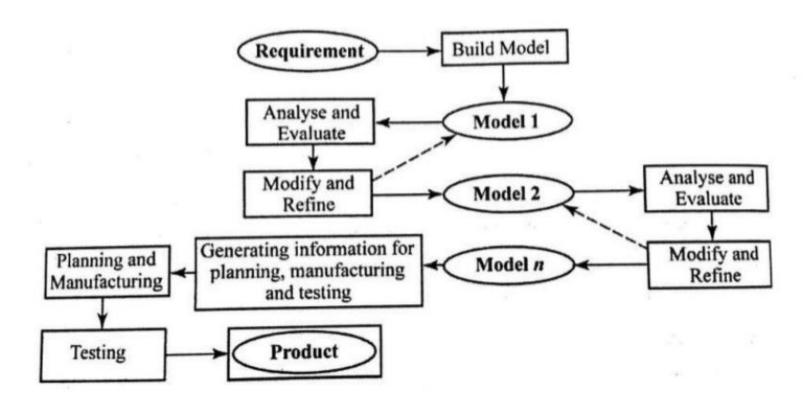
PHAL AND BEITZ DESIGN PROCESS







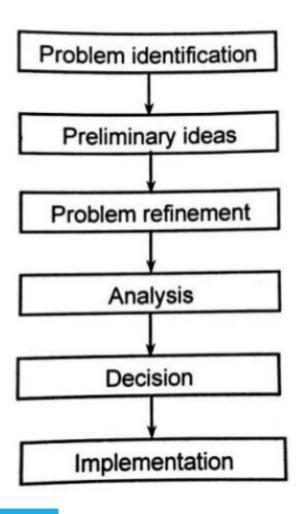
OHSUGA DESIGN PROCESS







EARLE DESIGN PROCESS







REFERENCES

- 1. Ibrahim Zeid "Mastering CAD CAM" Tata McGraw-Hill Publishing Co.2007.
- 2. Radhakrishnan P, SubramanyanS.andRaju V., "CAD/CAM/CIM", 2nd Edition, New Age International (P) Ltd, New Delhi,2000.





