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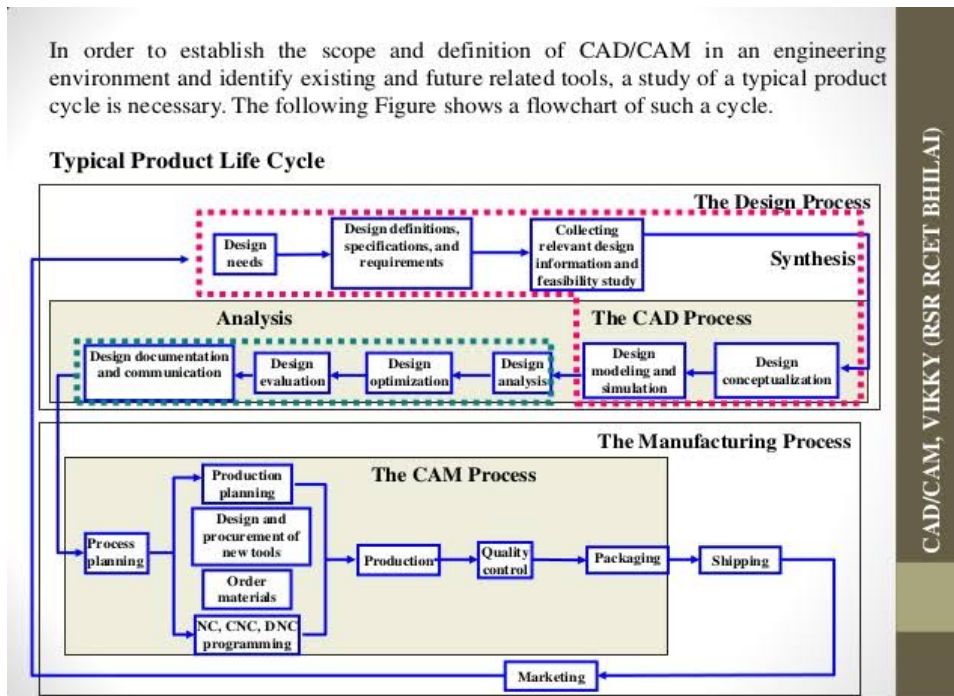
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MEE586 Assignment

1. WHAT IS AN INTEGRATED CAD/ CAM SYSTEM?

An integrated CAD/ CAM system is a system which provides one model supporting both design and manufacturing functions instead of having various file formats, numerous data translations/ conversions, and different CAD and CAM models. To the CAM system, the CAD model becomes the sole geometry in play. Such systems are employed to achieve computer-aided integration in all production functions, from design and planning up to manufacturing and the assurance of quality standards.

2. DRAW A PRODUCT CYCLE TO DESCRIBE THE SCOPE OF CAD/ CAM IN THE OPERATION OF MANUFACTURING FIRM



3. EXPLAIN SEVEN CHARACTERISTICS OF A GOOD CAD SYSTEM

- Efficiency:- An Efficient software is that which can use less resources such as CPU in terms of time and usage to give a better output.
- Simplicity:- A software must be simple to use and easy to understand and must be user friendly.
- Flexibility:- The software must be able to incorporate the design modification without much of difficulty.
- Readability:- This provides the capability within the software to help the user as and when required.
- Portability:- The software must have the capacity to get transferred from one system to other.
- Reliability:- To avoid causality the software must be able to avoid unwanted operation.
- Recoverability:- A Good software must be able to give warnings before getting crashed and must be able to recover.

4. EXPLAIN THREE DIVISIONS OF SOFTWARE COMPONENTS

- Network Software:- This includes the OSI network stack that would be loaded after the System Software. This constitutes industry standard network protocols such as TCP/IP that enables communication on the System Software to other computers.
- System Software:- This is the code that boots the computer and controls the devices, resources and applications. Everyday folks know this as Windows, Mac, Linux, Unix, etc. This is typically read from disk and loaded into RAM, although it could also be manifested as PROM, in which case it is read from non-volatile memory.
- Application Software:- This is software that can be written for a platform such as Windows, or in today's world, a web-based application that uses the network and system software noted above.