Lecture 15 Dental Equipment Technologies Dr.Muna Merza

**CAD CAM Production Methods**

**CAD CAM**

(Computer - aided design and computer -aided manufacture)

Is a term that refers to computer system that are used to both design and manufacture products.

**CAD /** is the use of computer technology for process ofdesign and design- documentation.

**CAM /** is the use of computer system both for designing product and for controlling manufacturing processes.

The use of CAD/CAM system to create an appropriate design and fitness of different dental restorations like zirconium crown, fixed bridges, dental (Veneers, Inlays, Onlays), dental implant restorations, orthodontic appliances, and removable dentures (complete and/or partial).

**CAD/CAM components**

CAD/CAM systems are composed of three major parts:

1- A scanner or digitizing instrument that transforms physical geometry into digital data.

2- Softwarefordesigningvirtualrestorationsonavirtualworkingcast and then computing the milling parameters.

3- A computerized milling device for manufacturing the restoration from a solid block of restorative material or additive manufacturing.





