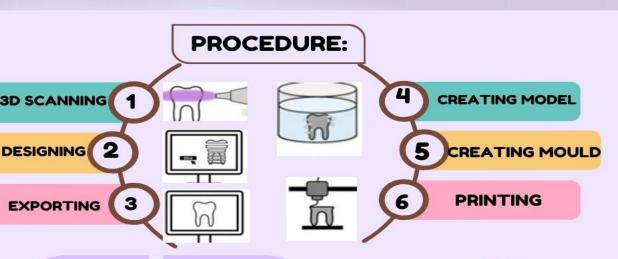






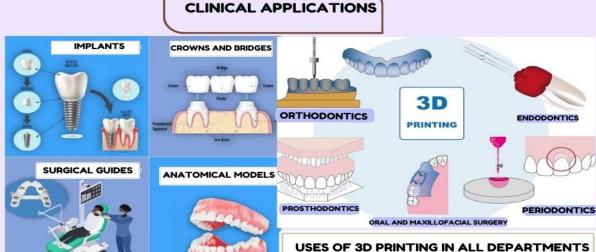
## FROM PIXELS TO TISSUES - UNLEASHING NANOMATERIALS IN **3D AND 4D BIOPRINTING**



**DISADVANTAGES** 







## **RECENT ADVANCEMENTS SMART MATERIALS**



3D printing



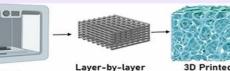




OF DENTISTRY



## **4D BIOPRINTING**



formation of scaffold



Scaffold











Scaffold incorporated QUANTUM DOT MESOPOROUS with nanomaterials