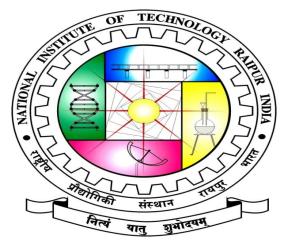
## **ASSIGNMENT-4**

# BIO MEDICAL ENGINEERING

National Institute of Technology Raipur(C.G)



Name:-D.Satya Harshit

Roll NO.:-21111017

Section:-"A"(BME)

Topic :- Disruptive Innovations Health Care

# Contents Technology Customer centered care

Disruptive innovations are those that invert the usual way of doing things to such an extent that they have a ripple effect throughout the industry. Disruptive innovations in healthcare are primarily centered on mordern technology, customer-centric care.

#### **Technology** 1

In the past, a patient could get only biometric data about their pulse, heart rate, blood oxygen, and blood pressure when they went to the doctor's office. Now consumers can do this by using wearable devices such as fitbits, smartwatches, and mobile phone fitness apps. Physicians can use the data gath-



Figure 1

ered from these wearables to make treatment decisions. Blockchain is a database technology that uses encryption to store data and link it in a way that modifies security and usability. This innovation simplifies many aspects of healthcare, including patient records, supply and distribution, and research. Tech startups have joined the healthcare sector with blockchain applications that have changed how providers use medical data. AI in healthcare offers enormous opportunities for better patient care. While doctors or physicians make the final

call on diagnosis and treatment, AI models can gather and process large amounts of image data to offer an additional viewpoint of sorts, which can be especially useful for hard-to-read scans. **Chatbots** remind the patients about their medicines and offer them an online booking platform to book doctor's appointments.

### 2 Customer centered care

COVID-19 has stimulated the delivery of **telemedicine**, and experts affirm that telemedicine will sustain for a long period. Telemedicine is increasingly adopted by health organizations to meet patient demand for convenient, accessible, and affordable services. It's effective, doctors will be



reimbursed for a telehealth consultation, and many patients prefer it. An **electronic health record**(EHR) is a <u>digital version of a patient's paperchart</u> that makes the information about available quickly and securely to authorized users which can be shared with other providers across more than one health care organization. EHR can

Figure 2

AI application, and new business opportunities.

be used to conduct reasearch, enhance care, builds new