SNS COLLEGE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)

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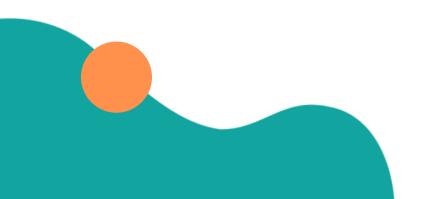# Department of Biomedical Engineering

Vision Tit 2   Vision Title 3

Course Name: 19BMO401 & TELEHEALTH TECHNOLOGY

IV Year : VII Semester

Unit I –TELEMEDICINE AND HEALTH

Topic : History

19BM0401/History/Unit 1/Mr.S.Prince Samuel/AP/BME

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INTRODUCTION

➢ Telemedicine is synonymous with remote health care. The idea is that health care providers can work with patients despite physical distance between them using digital communication

➢ Apps that offer convenience to the patient ultimately save doctors from jumping through hoops as well. These apps can help patients schedule doctor's appointments, save money on prescriptions, and manage their health insurance. With these tasks out of the way, doctors can focus on providing quality care during the time they interact with their patients.

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WEARABLE MEDICAL DEVICES

- A vast range of wearable medical devices are available for personal and professional use. These devices can measure your heart rate, calories taken in and burned off, glucose levels, ECG, and posture, and they can even offer pain relief through electrotherapy.
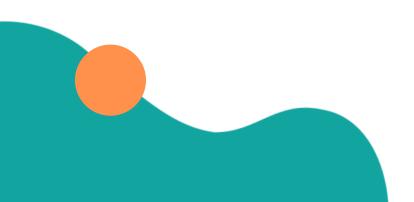
SMARTPHONES AS DIAGNOSTIC TOOLS

➢ Smartphones can diagnose mental conditions like Alzheimer's with simple tests. Attaching an enhanced lens to a smartphone's camera can give it the power to diagnose skin and oral conditions.

➢ Scanners attached to smartphones can scan blood samples for malaria, thyroid problems, and more.
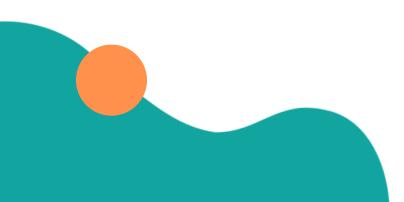
HEALTH INFORMATICS

➢ According to a government mandate known as the HITECH Act of 2009, medical facilities have to update their HIT systems to comply with government regulations.

➢ While many hospitals still lag behind when it comes to meeting government standards for digital health care, they are advancing every day to meet those requirements.

➢ As a result, the demand for jobs in health informatics has increased dramatically in the past few years.

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DIGITAL THERAPY AND ADVICE

➢ One of the biggest advantages of telemedicine is that doctors can more easily communicate with patients without an office visit.

➢ Therapists can receive information about their patients when a [therapy app](#) records a sample of their speech.

➢ Other apps like [Wellframe](#) use artificial intelligence to give therapy and advice to the patient without a doctor's interaction. ThriveOn is a similar app that provides mental health care.

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