



kamp KNOWLEDGE & AWARENESS MAPPING PLATFORM

PRESENTS
58th Fortnightly Workshop
on

FROM THEORY TO PRACTICE: ROBOTICS IN HEALTHCARE AND INDUSTRY

BY: DR. RANJHAN JHA
(Senior Scientist, BMA, CSIR-CSIO)

For Students from Classes 3rd to 12th
(Parents/Teachers can also Participate)

JOIN US

AUGUST 16TH, 04:00 PM IST

zoom **LIVE STREAM** **+91-9599576228** **www.kamp.org.in**

KNOWLEDGE AND AWARENESS MAPPING PLATFORM
KNOWLEDGE SESSION 2024: EPISODE 58

Organized By: Knowledge & Awareness Mapping Platform (KAMP)
In Knowledge Alliance with CSIR -NIScPR and M/s NCPL

Topic: Transform your life - Simple steps to build good habits

Category: Scientific and Life Skills

Speakers/Presenters: Mr. Dhruva Khanzode

Organized for: Students

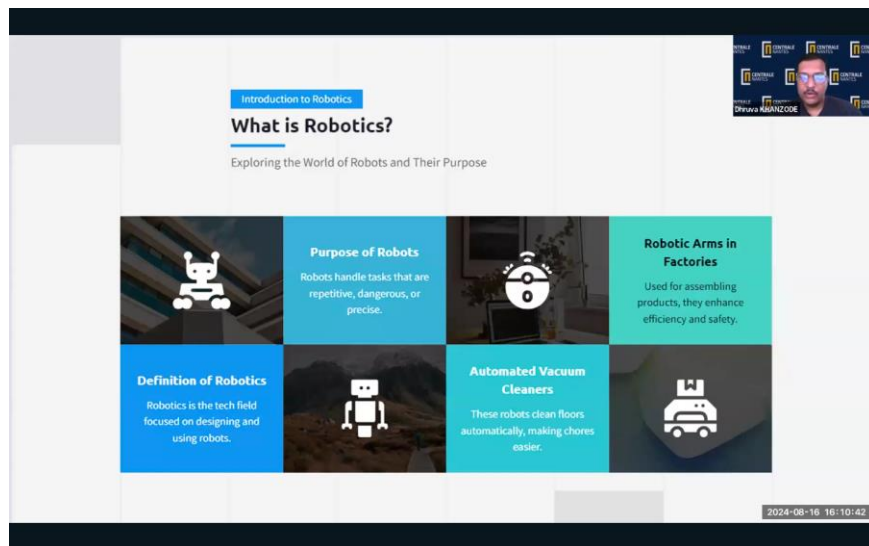
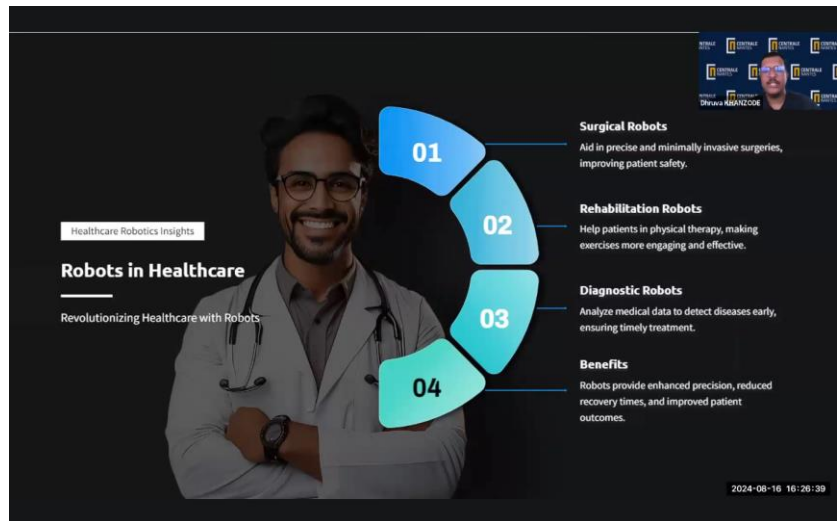
Date: August, 16th, 2024

No. of Participants: 500+ Students from different schools across India

Overview:

On 16th August, KAMP conducted a Fortnightly Session titled "From Theory to Practice: Robotics in Healthcare and Industry" for students from grades 3 to 12. The session was led by Mr. Dhruva Khanzode, a PhD Scholar from Ecole Centrale de Nantes, France, who emphasized the growing importance of robotics in both healthcare and industrial sectors. He showcased how theoretical knowledge can be transformed into

practical applications, highlighting real-world examples that demonstrated the significant impact of robotics on improving efficiency and precision in these industries.



practical applications, highlighting real-world examples that demonstrated the significant impact of robotics on improving efficiency and precision in these industries. He also explained the use of robots in industrial settings, such as manufacturing, warehousing, and agriculture, where robotics is transforming production efficiency and operational management.

Mr. Khanzode explored various facets of robotics, starting with an introduction to what robotics is, its historical evolution, and the core components that make up robots. He delved into the different types of robots, particularly focusing on their roles in healthcare and industry. In the healthcare sector, he discussed surgical robots, rehabilitation robots, and diagnostic robots, highlighting their benefits in terms of

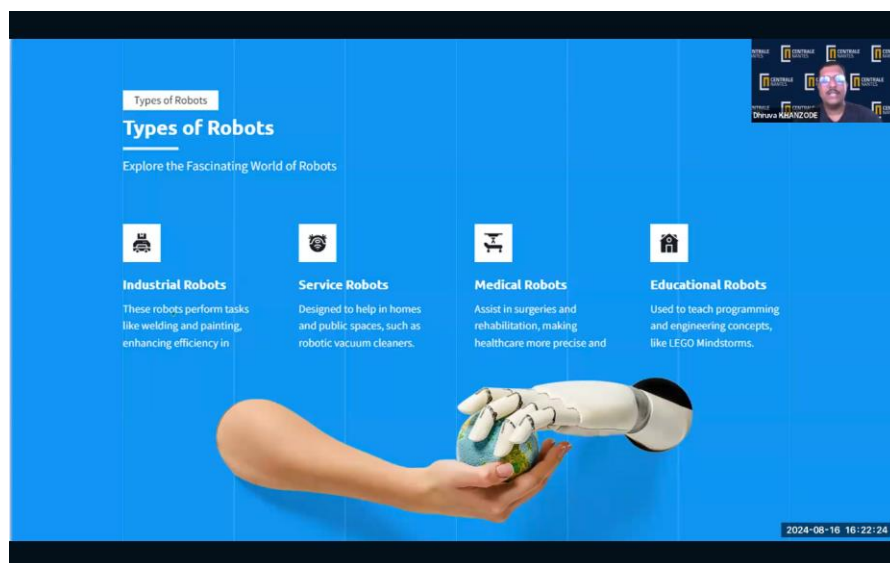
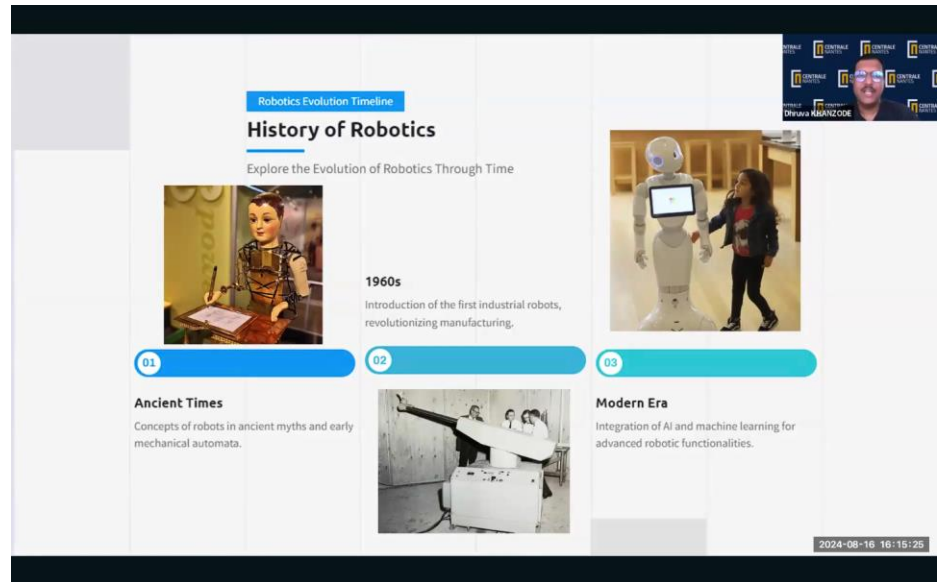
The session also touched upon everyday robotics, such as robotic vacuum cleaners, smart home assistants, and other time-saving technologies that are becoming increasingly integrated into daily life. Furthermore, Mr. Khanzode provided insights into future trends in robotics, encouraging students to imagine the next generation of innovations in this field.

Students were actively encouraged to think critically about the challenges and opportunities that robotics presents, fostering an environment of curiosity, innovation, and problem-solving. The comprehensive coverage of the subject, from basic concepts to advanced applications, provided valuable insights that could inspire the next generation of scientists, engineers, and technologists.

Overall, the session was highly informative and empowering, giving students a well-rounded understanding of the potential that robotics holds for the future of healthcare, industry, and everyday life.

KAMP's fortnightly workshops aim to help students develop creativity, meaningful learning, and critical reading and thinking skills, bringing out their inherent abilities. The vision of KAMP is to identify and capture the Scientific and Technological temperament in students, contributing to making India a Global Leader in the fields of science, technology, and the humanities.

These workshops, conducted by KAMP, cover various topics falling under the categories of



science, technology, and innovation, Scientific and Life Skills, Career and Professional Development, Academic development, and training trainers and teachers.

KAMP believes that exposure to such topics from experts within specific fields helps students become aware of real-life situations and challenges, develop a problem-solving nature, understand their core values and personal interests, evaluate their skills within the given area, and achieve their best in their most desirable way.

Organized By:
Knowledge and Awareness Mapping Platform
(KAMP Operations and Coordination Office)

Moderated By:
Mr. Aniket Arora
(Outreach Coordinator, KAMP)

Team Credits:
Ms. Arika Mathur
(Member, KPMC)