SAL INSTITUTE OF TECHNOLOGY & ENGINEERING RESEARCH &

SAL ENGINEERING AND TECHNICAL INSTITUTE

Department of Computer Engineering

Expert Session

On

"Innovative Application of Image Processing in Medical domain"

25th February, 2022

Director & Principal: - Dr. Rupesh Vasani

I/C Principal & Head of Department: - Dr. Ajay Upadhyaya

Session Conducted by: - Asst. Prof. Jignyasa Gandhi

Department of Computer Engineering,

SAL education, Ahmedabad

Date: 25/2/2022

Venue: SAL Engineering and Technical Institute

Mode of Workshop: Online – Zoom meet

Title of Workshop: Innovative Application of Image Processing in Medical domain

Name of speaker :- Mrs. Jignyasa Gandhi

No. of students Participated: 32

No. of faculties Participated: 03

No. of external Participated (if any): Nil

Facebook URL:
https://www.facebook.com/saleducationsal/photos/a.449472965207926/2191078714380667/

Objective:

To make the Students aware about the various image processing techniques, Challenges and Opportunities in Medical Domain for Engineers and Latest Trends

Since Image Processing is elective course to the students, the session focused to make aware students about Image processing. The students were introduced to Latest trends in the medical image processing domain, about applications and opportunities in this field. It also motivate students for solving the different technical problems of the medical image processing.

Benefits in Terms of Learning, Skills & Knowledge:

Apart from teaching it is necessary for the students to be part of technical extracurricular activities. Students can learn about new domain, scope and opportunities in that domain. This helps the student in skill development and also adds to their resume. These extra-curricular activities will be helpful in internship and placement.

About the Event:

The Department of Computer Engineering of SAL Institute of Technology & Engineering Research & SAL Engineering and Technical Institute has organized an Expert Session on "**Innovative Application of Image Processing in Medical domain**" for the 2nd and 3rd year Students. This workshop was organized so that students can be introduce to Latest trends in the medical image processing domain, about applications and opportunities in this field.

Highlights of the Workshop:

The workshop started with the basic introduction of the Image and Image processing by Speaker Prof. Jignyasa Gandhi. The students were given brief description about difference between Image processing, Computer Graphics, Computer Vision and Artificial Intelligence. The students were introduced to basic imaging modalities used in medical imaging for screening of the disease. The students were introduced to the principle of image acquisition of medical imaging modalities like X-
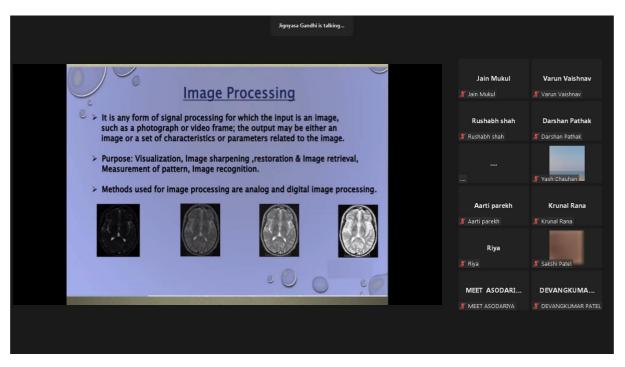
Rays, CT scans, MRI, PET, SPECT, Ultrasound, etc. The image processing and researches going on with these images were also explained to students.

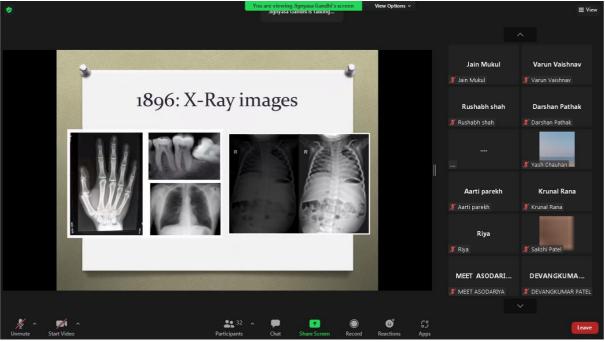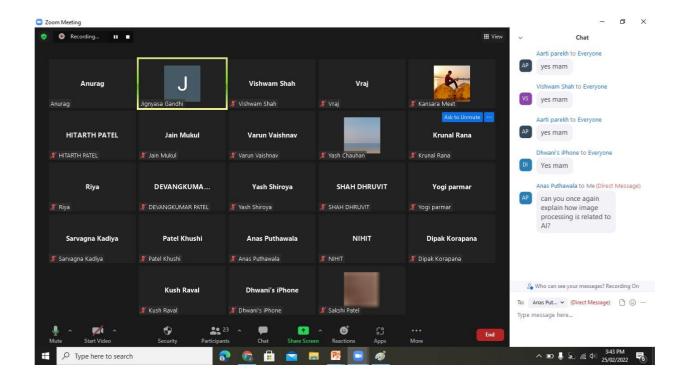SAL Institute of Technology and Engineering research, Ahmedabad

Total 35 participants were Present in this Program Including students and Faculty members. Some Students have given good response for this type of Session. These students are interested for working on innovative projects related to this domain.

Report Prepared By:
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