

## About LDCE

**L. D. College of Engineering**, Ahmedabad is a premier engineering institute in Gujarat state set with the objectives of imparting higher education, research and training in various fields of engineering & technology. The institute was established in June 1948. The institute is affiliated to Gujarat Technological University, Ahmedabad and administrated by Department of Technical Education, Gujarat State, and Gandhinagar. It is situated adjacent to Gujarat University building and is located at the nucleus of various national level institutes such as PRL, ATIRA, ISRO, IIM etc. The campus is having building for various departments, offices, hostels, residences of Principal, rector and wardens.

## "KAIZEN-2021"

The objective of "KAIZEN-2021" organized by L.D college of Engineering, Ahmedabad is to bring together the researchers, scientists, engineers, students and professionals to exchange their experience, new ideas and research result in the area of Biomedical Engineering. The event includes the identification of the practical challenges encountered in the field and their solution adopted through presentation and discussion. The event intends to encourage students of undergraduate for their project, invention, scientific investigation and research to promote their application for development in all sectors of Biomedical Engineering.

## Biomedical Engineering Department

Department has started degree program in Bio-Medical Engineering in 2004. This program is blend of Medical Science and Instrumentation which comprises of few subject related to medical science, analog and digital electronics, power electronics, microprocessors and their applications, computer programming, electronic instrumentation and control, and bio-medical engineering.

### Faculty Members of Biomedical Engineering

Name of Faculty	Designation
Prof. Dr. M T Thakkar	Professor & Head
Prof. B H Parmar	Assistant Professor
Prof. U V Pancholi	Assistant Professor
Prof. B H Mehta	Assistant Professor
Prof. H B Patel	Assistant Professor
Prof. Y M Parikh	Assistant Professor
Prof. P L Gohel	Assistant Professor

### Project Area

Final year students have developed various projects in the subdomains of Biomedical Engineering like Rehabilitation Engineering, Diagnostic and Therapeutic Instrumentation, Image Processing, Biomechanics, Conventional and advanced medical technology.

### Eminent Judges

Mr. Mohit Tiwari  
(Field Service Specialist-West, Carl Zeiss)

Mr. Jayesh Gandhi  
(Managing Director, Harikrupa Automation)

# KAIZEN 2021

## Online Review of Final Year Projects

19<sup>th</sup> April, 2021

**Venue: online on MS Team Platform**

### Schedule:

Time	Event
10:30 to 10:45 am	Inauguration & Welcome speech by H.O.D.
11:00 to 1:30 pm	Project Evaluation by Experts in two parallel sessions
1:30 to 1:45 pm	Announcement of Departmental Top 3 Projects
1:45 to 2:00 pm	Valedictory

**Organized by**



**Biomedical Engineering  
Department  
L. D. College of Engineering,  
Ahmedabad**

**L. D. COLLEGE OF ENGINEERING-AHMEDABAD**

**Following students are presenting their project at the event KAIZEN-2021**

<b>Sr. No.</b>	<b>Enrollment No.</b>	<b>Name of Student</b>	<b>Project Title</b>	<b>Guided by</b>	<b>Area</b>
1	170280103021	Rushda Kirmani	AutoClave	Prof. P. L. Gohel	Sterilization
	170280103029	Sweta Mehta			
	170280103049	Divya Singh			
2	180283103013	Meet Parekh	Multipurpose Portable Sanitizer Machine	Prof. H. B. Patel	Sterilization
	180283103018	Vishal Rabari			
	180283103019	Hiren Rajgor			
3	170280103032	Manishkumar Nai	Blood Pressure estimation from PPG signals using Neural Networks	Prof. B. H. Mehta	Non-invasive BP Monitoring
	170280103044	Harsh Prajapati			
	170280103060	Devang Vyas			
4	170280103006	Prashant Desai	Portable Spirometer using Pressure Sensor	Prof. P. L. Gohel	Diagnosis
	170280103059	Bhavesh Vasita			
	180283103010	Meet Kadiya			
5	170280103034	Yesha Panchal	Robotic based auto suture device	Prof. H. B. Patel	Therapeutic
	170280103038	Nidhi Patel			
	180283103002	Manoli Bhadeshiya			
6	170280103039	Nilay patel	IOT based health care monitoring system	Prof. P. L. Gohel	Health care monitoring
	170280103053	Rahul taviya			
	170280103061	Himanshu yadav			
7	170280103016	Kadia Vrutik M.	Wireless upper limb rehabilitation device using FES	Prof. P. L. Gohel	Rehabilitation
	170280103023	Limbasiya Jinal			
	170280103025	Makwana Neha K.			
	170280103058	Vanodiya Meera A.			
8	170280103045	Prexa Prajapati	IOT based ECG monitoring System	Prof. Y. M. Parikh	ECG monitoring
	170280103037	Dhruvi Patel			
	170280103046	Vimal Prajapati			
	160280103064	Nzayikusu Mvutu Estime			
9	170280103008	Mansi Diyora	Mental stress level indicator using physiological parameter	Prof. B. H. Mehta	Diagnosis
	170280103020	Nidhi Kheni			
	170280103052	Divyesh Tadhani			
10	170280103005	Kruti Desai	Neuron modelling for healthy and Alzheimer's neuron condition	Prof. U. V. Pancholi	Physiological system modelling
	170280103043	Jagruti Patil			
	170280103055	Kashish Tilokani			

11	170280103027	Nency Mandaviya	Device for monitoring and healing the chronic wound	Prof. U. V. Pancholi	Therapeutic
	170280103031	Riddhi Moradiya			
	170280103035	Raxit Parmar			
	170280103047	Megha Savaliya			
12	180283103007	Aarti Gohel	Smart belt for detection of Heart Attack using IoT	Prof. B. H. Parmar	Diagnosis
	170280103011	Dhruvika Gondaliya			
	170280103010	Nima Gajjar			
13	180283103001	Baria Umesh L	EMG based upper limb prosthesis	Prof. H. B. Patel	Rehabilitation
	180283103004	Chauhan Bhargav A			
	180283103009	Joshi Vedant J			
14	170280103040	Nishtha Patel	Portable audiometer for detecting hearing disorder at early stage of cancer	Prof. B. H. Mehta	Diagnosis
	170280103048	Rootva Shah			
15	170280103004	Dave Shivam Girishkumar	Multiclass 3D brain tumor automatic localization using 3D MRI images	Prof. Y. M. Parikh	Diagnosis
	170280103033	Paliwala Abrar Ilyas			
	170280103057	Vaghasiya Rominkumar			
16	170280103018	Pratik Kava	Blood Group Detection Device	Prof. B. H. Parmar	Diagnosis
	170280103017	Pradip Kalsariya			
	170280103001	Navnit Baldaniya			
17	180283103005	Aishwarya Derasari	Lung cancer detection using CT scan images	Prof. Y. M. Parikh	Diagnosis
	180280103008	Yukta Jetalpuria			
	180283103021	Ayushi Shah			
	180283103022	Khevna Vasani			
18	170280103054	Taniya Thakkar	Freeze-Drying method to produce collagen GAG scaffolds for regeneration of damaged tissue.	Prof. U. V. Pancholi	Tissue engineering
	160280103038	Hiren Patel			
	170280103024	Mahida Damini			
19	170280103009	Ankit Emmanuel	Surface Angle Measurement During TKR Surgery	Prof. U. V. Pancholi	Assistive device
	170280103015	Bhavy Jaypal			
	170280103050	Abhishek Soni			
20	180283103011	kathiyavadi sonal A	Wireless robotic arm control using mobile application	Prof. B. H. Parmar	Assistive device
	180283103014	Parmar natasha			
	180283103020	Rathod Arti			
	180283103006	Kamini Ganvit			
21	180283103017	Nehal Patel	Smart Medical Gas Control System	Prof. B. H. Mehta	Medical Gas monitoring & Control System
	170280103013	Aesha Jain			
	170280103036	Akash Patel			