Kalyani Charitable Trust's
Late G. N. Sapkal College of Engineering
Kalyani Hills, Anjaneri, Trimbakeshwar Road,
Nashik – 422 213

Department of Electronics and Telecommunication Engineering

List of Final Year Project

Academic Year	Group No.	Name of Student	Name of Guide/Mentor	Project Title	Sponsored/ Non-sponsored
2018-19	1	DANGE KUNAL VIJAYKUMAR NAGMOTI PRAJAKTA DIPAK PATIL GEET PRAMOD	Prof. S.B.Borse	Eyes Through Diseases Detection Using Raspberry Pi	Non-sponsored
	2	JOSHI BHAGYASHREE UMESH KALEWAR DIVYA ASHOK PATIL DNYANADA KESHAV	Prof. S.B.Borse	Security System for Smart Kitchen	Non-sponsored
	3	CHUNDURWAR SHRINIVAS BALAJI BADGUJAR SWAPNIL JAGANNATH SONAWANE RASHMI VIJAY	Prof. S.B.Borse	Hand Motion Controlled Robotic Vehicle	Non-sponsored
	4	MULANE POOJA MOTIRAM NARANG ROHIT ARUN THAKARE JAYASHREE RAVINDRA	Prof. M.S.Borse	Night Vision Patrolling Robot	Non-sponsored
	5	CHASKAR AKSHAY NARENDRA GAIKWAD SWAPNIL MARUTI GODSE SAURABH BABAN	Prof. M.S.Borse	Advance Automatic Door Controller based on PLC	sponsored (Sivananda Pvt Ltd)
	6	BHANDARE PRACHI SANJAY DESHMUKH SNEHAL DILIP JAGTAP SONALI RAJENDRA	Prof. L.K.Chouthmol	Secuirity System for Smart Vehicle	Non-sponsored
	7	DEORE DHEERAJKUMAR NIVRUTTI AMRUTKAR RITESH SANJAY PATANPALLU PREETI VIJAY	Prof. L.K.Chouthmol	RFID based Tracking and Monitoring of Vehicle	Non-sponsored
	8	GUJRATHI KISHOR JAMNADAS JAYBHAVE KIRAN	Prof. S.R. Baji	Home Automation System using Internet of Things	Non-sponsored

		GOVIND YADAV NITYANAND			
	9	NANGARE DARSHAN RAMESH PAWAR NIKHIL PARAJI SAYYED SAIF ALI GULAB	Prof. S.R. Baji	Arduino Based Railway Track obstacles Detection Robot	Non-sponsored
	10	BHALDE ADITYA SUDHIR BORSE HITESH PRAFULLA PATIL SHUBHAM KAILAS	Prof. K.J.Mahajan	Autonomous Ring Rail with Voice Assistance for Metro City	Non-sponsored
	11	DARADE RADHESHYAM POPAT KANADE SARVESH SHRIPAD DEVANI PRASHANT SHAMBHUBHAI	Prof. K.J.Mahajan	Voice Interactive System medicine box using microcontroller	Non-sponsored
	12	PAWAR SUNIL JAGANNATH SONAWANE ROHIT KISHOR TUPE SUWARNA MADHUKAR	Prof. S.G. Bagul	Automatic Machine Protection Using PLC	Non-sponsored
	13	GANDIGUDE BHAKTI VIJAYKUMAR GOSAVI PARESH CHANDRASHEKHAR PARDESHI HARSHAL CHHAGAN	Prof. S.B.Borse	Implementation of Solar Fridge & Fast Chilling Effect with temperature Monitoring	Non-sponsored
	14	DHENGALE RAJESH RATNAKAR NAGPURE MANAS SHYAMSUNDAR MORE TUSHAR RAJENDRA	Prof. L.K.Chouthmol	IoT based Air & Sound Pollution Monitoring System	Non-sponsored
19-20	1	KAREKAR HIMANI SANTOSH NAIDU ARAVIND PAWAR SNEHAL CHUDAMAN	Prof. S.B.Borse	Smart Mirror	Non-sponsored
	2	JADHAV AKSHAY DATTU SARATE YOGESH TULSHIDAS NAWALE SURAJ DILIP NEMADE PRAGATI KIRAN	Prof. S.B.Borse	Model of Rover Pragyan	Non-sponsored
	3	BADGUJAR DHANASHRI PUNDLIK	Prof. S.B.Borse	IoT based Border Alert for fisherman using Zigbee and	Non-sponsored

Late G. N. Sapkal College of Engineering
Anjaneri
Nashik
422 212
KCT's

		BHAMARE KAJAL NAMDEV JADHAV KALPESH		GPS	
	4	PATIL ASHWINI NARAYAN GAWALI PRATIK RAMESH JADHAV KAJAL	Prof. M.S.Borse	Automatic Car covering and Washing System	Non-sponsored
	5	POTINDE HITENDRA PRABHAKAR SHARMA REEMA DEVENDRA PAWAR NIKITA ANIL	Prof. M.S.Borse	Voice and Bluetooth Control Car	Non-sponsored
	6	SHINGANE KUNAL RAJESH DEOKAR SHUBHAM ESAI NEHA G	Prof. L.S.More	Electrical Power Theft Detection System	Non-sponsored
	7	BHASRE AMOL KRISHNA GAIKWAD SWAPNIL JAGTAP DEVIDAS	Prof. L.S.More	Raspberry Pi based Smart Reader for Visually Impaired People	Non-sponsored
20-21	1	BORADE SNEHAL MADHAV MUNDHE KAMINI S NAGARE AKSHADA NIVRUTTI	Prof. S. B. Borse	Black Box: An Emergency Rescue Dispatch System for road vehicles for instant notification of road accidents and post crash analysis.	Non-sponsored
	2	CHAMPANERKAR KAUSTUBH SHRIKANT GAIKWAD SHITAL CHANDRAKANT NARENDRA SINGH	Prof. S. B. Borse	Solar Based Electric Vehical Charging System	Non-sponsored
	3	BAVASKAR AISHWARYA VINOD THOMBARE AKSHAY ANIL THORAT CHETAN BALKRISHNA WALKE ANUSHKA RAMESH	Prof. M.S. Borse	IOT Based Transmission line detection using Rasbperry Pi	Non-sponsored
	4	JAGTAP GAUTAMI RAJESH KOTHAWADE UNNATI JADHAV PRIYANKA RAMESH	Prof. L.S.More	Garbage Control System for Multilevel Buildings	Non-sponsored
21-22	1	Srivastava Rinki Omprakash Bhalerao Dolly Prabhakar Gare Ankita Shankar Mahale Jayshree Sanjay	Prof. S. B. Borse	IOT Based Smart Electric Pole	Non-sponsored
	2	Jadhav Yogesh Subhash	Prof. M. S. Borse	IOT Based green house	Non-

		Uke Lalit Sudhakar Suryawanshi Chaitali Rajendra Umed Dilip Sable		monitoring system using Raspberry Pi.	sponsored
22-23	1	Chawla Pradeep Motiram Katare Rohit Somnath Baviskar Rupesh Arun	Prof. M. S. Borse	Product Splitting using PIC	Non-sponsored
	2	Alhat Akash Balasaheb Gawali Rahul Dnyaneshwar Wagh Rohit Sukdev Lambe Arjun Motiram	Prof. S. B. Borse	IoT Based Greenhouse	Non-sponsored
	3	Kathe Dhanashri Bharat Khandagale Bhagyashri Balasaheb Kudal Jyoti Kishor	Prof.S.G.Bagul	IoT Based Advanced Ambulance	Non-sponsored
	4	Pendharkar Kalyanee Bhausaheb Barhate Rutika Vinod Gaikawad Kajal Ramesh	Prof. S. B. Borse	Department Management System	Non-sponsored
	5	Walunj Prajakta Annasaheb Sangale Puja Sampat Avhad Vaishnavi Bansilal	Prof. K. J. Mahajan	Solar based Pumping System	Non-sponsored
	6	Shinde Vanita Kacharu Pawar Archana Gorakshnath Nagare Nishant Bharat	Prof.S.G.Bagul	Crime management system using JAVA script	Non-sponsored
	7	Chaudhari Ishwar Somnath Ide Vijay Bhima Avhad Rohit Ramhari	Prof. K. J. Mahajan	Hyper spectral image classification using unsupervised Learning	Non-sponsored
	8	Jadhav Yukta Prakash Hivrale Pramod Shivajirao Tejale Ashwini Sharad	Prof. M. S. Borse	Solar Reflector Infrared Technique	Non-sponsored
	9	Dabhade Vedant Dhananjay Zend Amey Deepak Chavan Tejas Yogesh Shaikh Khushboo Tuffailahmed	Prof. S. B. Borse	E-Rationing System	Non-sponsored
	10	Chide Abhishek Ganesh Pardeshi Rohan Ashok Dignag Rahul Tuplondhe	Prof. M. S. Borse	Aurdino Range Measurer & digital spirit Level	Non-sponsored
	11	Kolhe Abhishek Milind Patil Pratik Sahebrao Ghuge Dinesh Abhiman	Prof.S.G.Bagul	Automated Saline monitoring System with IoT	Non-sponsored

23-24	1	Patil Anirudha Harsing Sawant Anurag Ramkrishna Bhosale Dipesh Sambhaji Pawar Saurabh Ramesh	Prof.S.B.Borse	Arduino Based Humanoid Robot.	Non-sponsored
	2	Murkute Sanket Nandkishor Gite Pratiksha Anil Ukade Avinash Jagannath Khokale Jayashree Budha	Prof.S.B.Borse	Development of Child Safety Car Alert System Using Arduino and GSM Module	Non-sponsored
	3	Bhagawat Divya Kailas Rokade Neelam S Sapnar Shalini Vilas Malode Tushar Kalubhau	Prof.S.B.Borse	Solar Powered IOT Based PH Rain roofing for Crop Protection.	Non-sponsored
	4	Ahire Mayur Adharsing Deshmukh Harshal Shrikant Mahajan Harshal Sanjay Andhale Shivani Sharad	Prof.S.B.Borse	Solar Powered operated Grass Cutting robot.	Non-sponsored
	5	Avhad Sanika Tukuram Ugale Darshana Dinkar Sable Mina Ramkrushna	Prof.S.D.Raul	Solar Based Machine Management System for Plastic Waste	Non-sponsored
	6	Darade Swati Gangadhar Avhad Vikas Ramkisan Hinde Mahendra Jayram Shinde Sayali Bhaurao	Prof.M.S.Borse	IOT Based Industrial Automation	Non-sponsored
	7	Shirsath Vishal Rajaram Jadhav Bhavesh Rajendra Murkute Rudraksh Gosavi Rahul Anil	Prof.K.J.Mahajan	Pokoyoke System for Industrial Production line.	Non-sponsored
	8	Kotwal Hrishikesh Rajendra Gaikwad Shubham Dilip Suyash Athare	Prof.K.J.Mahajan	DIY Ventilator Using Arduino with blood oxygen sensing for covid pandemic	Non-sponsored
	9	Tambe Monika Bapurao Wagh Rekha Prakash Sawant Sachin MothaBhau Bacchav Utkarsh S	Prof.S.D.Raul	Arduino Based Object Sorting System	Non-sponsored
	10	Kolhe Rahul Sanjay Jadhav Priyanka Shivajirao Patil Mayuri Sanjay Kute Harshad Laxman	Prof.S.G.Bagul	An IOT based automatic Leaf disease identification and controlling using Arduino uno.	Non-sponsored
	11	Ahire Prathamesh Pravin Jadhav Nayan Arun Chaudhari Rohan K	Prof.M.S.Borse	IOT based food Dehydration system.	Non-sponsored

Late G. N. Sapkal College of Engineering KCT's Anjaneri Nashik 422 212

	12	Gosavi Nishigandha Bhimashankar Gunjal Gayatri Babasaheb Avhad Vaishali Khandu Gavit Archana Sherma	Prof.S.G.Bagul	Face Mask Detection System Using AI.	Non-sponsored
	13	Ilag Amol Ramkisan Wagh Rahul Balasaheb	Prof.A.P.Patil	Solar Based Smart Fluid Irrigation System	Non-sponsored

Prof. S. B. Borse
Head of E&T.C Department

Prof. (Dr.) S. B. Bagal
Principal

Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213

Prof.(Dr.) Sahebrao B. Bagal
Principal
Late G. N. Sapkal College of Engineering
Anjaneri, Nashik-422 213

A
PROJECT PHASE-II
REPORT
ON

" Automated Saline Monitoring System with IOT "

Submitted to the Faculty of Engineering of
Savitribai Phule Pune University, Pune
In partial fulfillment of the requirements
for the award of degree

Bachelor of Engineering (Electronics and Telecommunication Engineering)
By

Kolhe Abhishek Milind. Seat No-B190763021

Under the guidance of
Prof. S. G. Bagul.

Department of Electronics and Telecommunication Engineering
KCT's Late G. N. Sapkal College of Engineering,
Anjaneri, Nashik-422212
[2022-23]

Kalyani Charitable Trust's
LATE G. N. SAPKAL COLLEGE OFENGINEERING
SAPKAL KNOWLEDGE HUB, Kalyani Hills, Anjaneri,

Trimbakeshwar Road, Nasik.

Department of Electronics & Telecommunication Engineering

Certificate

This is certified that the Project Report entitled,

" Automated Saline Monitoring System with IOT "

Submitted By

Kolhe Abhishek Milind. Seat No-B190763021

In partial fulfillment of the requirement for the award of the degree of
BACHELOR OF ELECTRONICS &TELECOMMUNICATION ENGINEERING
Savitribai Phule Pune University, Pune.

Prof. Prof. S. G. Bagul.
Guide.

Prof. Borse S. B.
Head of Department

External Examiner
Kanchan Borale

Prof. (Dr.) Bagal S.B.
Principal

ACKNOWLEDGEMENT

With all due respect and gratitude, we would like to thank all people who have helped us directly or indirectly for this project.

We take this opportunity to express our heart-felt gratitude towards our guide **Prof.S. G. Bagul** and BE Project Co-Ordinator **Prof. M. S. Borse** and Head of Department **Prof. S. B. Borse** for their constant encouragement, wonderful technical guidance and support throughout the course.

We express our thanks to Principal **Prof. (Dr) S. B. Bagal** for his continuous support. We are also thankful to all teaching & non-teaching staff of Electronics & Telecommunication Department for their kind co-operation and guidance for preparing and presenting this project work.

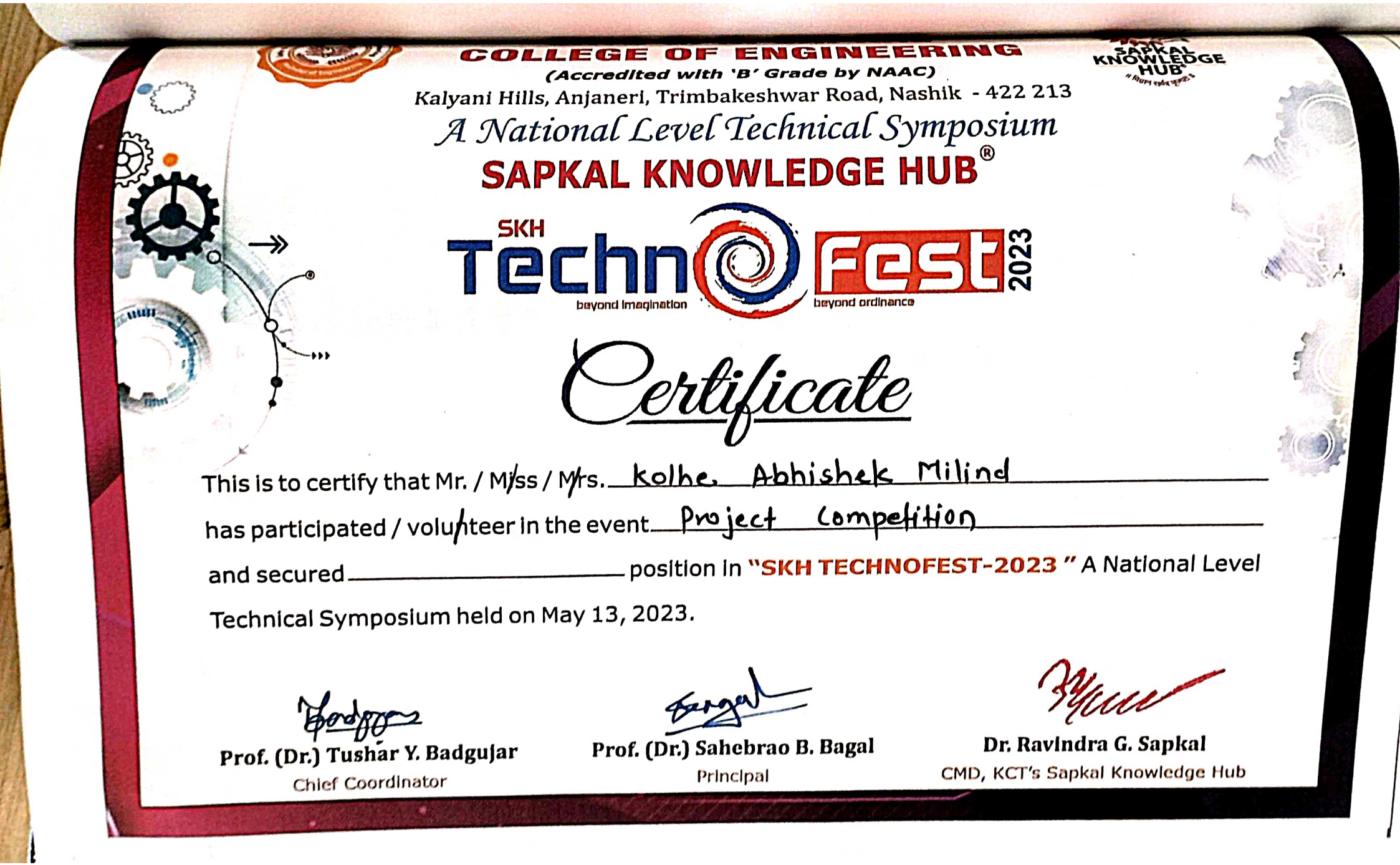
We take this opportunity to express our gratitude towards our **parents** and **friends** without them it would have not been possible.

Kolhe Abhishek Milind. Seat No-B190763021

ABSTRACT

In medical clinics, Saline is encouraged to patients to treat lack of hydration and accordingly improve their health. In current social insurance measures, at whatever point a saline is encouraged to any patient, the patient should be constantly controlled by an attendant or any overseer. Nearly in the entirety of the medical clinic, an attendant or guardian is answerable for checking the saline level ceaselessly with no interferences. Because of the carelessness and absentmindedness towards saline culmination by specialists, attendants or overseer of the patients and absence of attendants with adequate aptitudes in emergency clinics and they're over the-top outstanding task at hand, countless patients are biting the dust and are being hurt in the emergency clinics. Thus, to keep the patient from getting hurt and ensure their lives during saline sustaining period, the saline level observing framework have been created.

The proposed framework is constructed utilizing Web of Things (IoT) stage. The proposed framework includes sensors which will go about as a level sensor for observing the basic degree of the saline in the saline container. At whatever point the degree of the saline scopes to the pre-characterized basic level, at that point the medical attendants, overseer, specialists will be alarmed through the signal and an alarm message will be sent to monitor screen the concerned medical caretakers and specialists that there is a requirement for substitution of the saline jug. This proposed framework can be used effectively in homes just as emergency clinics. Also, patient can be calling nurse or ward boy be pressing the panic button which is placed near the saline.



COLLEGE OF ENGINEERING

(Accredited with 'B' Grade by NAAC)

Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik - 422 213

SAPKAL KNOWLEDGE HUB

A National Level Technical Symposium

SAPKAL KNOWLEDGE HUB®

SKH TechnoFest 2023

beyond imagination beyond ordinance

Certificate

This is to certify that Mr. / Miss / Mrs. Kolhe. Abhishek Milind

has participated / volunteer in the event Project Competition

and secured _____ position in "SKH TECHNOFEST-2023 " A National Level Technical Symposium held on May 13, 2023.

Prof. (Dr.) Tushar Y. Badgujar
Chief Coordinator

Prof. (Dr.) Sahebrao B. Bagal
Principal

Dr. Ravindra G. Sapkal
CMD, KCT's Sapkal Knowledge Hub

A
PROJECT PHASE-II
REPORT
ON

"DEPARTMENT MANAGEMENT SYSTEM"

Submitted to the Faculty of Engineering of
Savitribai Phule Pune University, Pune
In partial fulfillment of the requirements
for the award of degree

Bachelor of Engineering (Electronics and Telecommunication Engineering)

BY

1. GAIKAWAD KAJAL RAMESH (B190763012)
2. PENDHARKAR KALYANEE BHAUSAHEB (B190763027)
3. BARHATE RUTIKA VINOD (B190763005)

Under the guidance of

PROF.S.B. BORSE

Department of Electronics and Telecommunication Engineering
KCT's Late G. N. Sapkal College of Engineering,

Anjaneri, Nashik-422212 [2023]

Kalyani Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

SAPKAL KNOWLEDGE HUB, Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik.

Department of Electronics & Telecommunication Engineering

Certificate

This is certified that the Project Report entitled,

"DEPARTMENT MANAGEMENT SYSTEM"

Submitted By

GAIKAWAD KAJAL RAMESH (B190763012)

PENDHARKAR KALYANEE BHAUSAHEB (B190763027)

BARHATE RUTIKA VINOD (B190763005)

In partial full fillment of the requirement for the award of the degree of
BACHELOR OF ELECTRONICS &TELECOMMUNICATION ENGINEERING
Savitribai Phule Pune University, Pune.

Prof. S. B. Borse
Guide

External Examiner Prof.

College Seal

Prof. Borse S. B.
Head of Department

(Dr.) Bagal S.B.
Principal

Kalyani Charitable Trust's

LATE G. N. SAPKAL COLLEGE OF ENGINEERING

(Accredited with 'B' Grade by NAAC)

Kalyani Hills, Anjaneri, Trimbakeshwar Road, Nashik - 422 213

A National Level Technical Symposium

SAPKAL KNOWLEDGE HUB

SKH TechnoFest 2023

Certificate

This is to certify that Mr. / Miss / Mrs. Pendharkar kalyanee Bhausaheb

has participated / volunteer in the event Project Competition

and secured _____ position in "SKH TECHNOFEST-2023 " A National Level Technical Symposium held on May 13, 2023.

Prof. (Dr.) Tushar Y. Badgujar	Prof. (Dr.) Sahebrao B. Bagal	Dr. Ravindra G. Sapkal
Chief Coordinator	Principal	CMD, KCT's Sapkal Knowledge Hub

ABSTRACT

This work done is aimed at developing an Online Web-based "Department Management System" that is of importance to a specific department of a college. The system is a web-based application that can be accessed throughout the department of an organization. This system may be used for monitoring the overall activities as well as performance of the students. This work is being developed for an engineering to maintain and facilitate easy access to information. For this the users must be registered with the system after which they can access as well as modify data as per the permissions given to them. DMS is a web based application that aims at providing information to all the levels of department in an organization.

Keywords – Admin, Department system, Information, Management System,Student

ACKNOWLEDGMENT

With all due respect and gratitude, we would like to thank all people who have helped us directly or indirectly for this project.

We take this opportunity to express our heart-felt gratitude towards our guide **Prof. Name of guide** and BE Project Coordinator **Prof. S.B. Borse** and Head of Department **Prof. S. B. Borse** for their constant encouragement, wonderful technical guidance and support throughout the course.

We express our thanks to Principal **Prof. (Dr) S. B. Bagal** for his continuous support. We are also thankful to all teaching & non-teaching staff of Electronics & Telecommunication Department for their kind cooperation and guidance for preparing and presenting this project work.

We take this opportunity to express our gratitude towards our **parents** and **friends** without them it would have not been possible.

Student Name

1. Miss. Gaikawad Kajal R.
2. Miss. Barhate Rutika V.
3. Miss. Pendharkar Kalyanee B.

A PROJECT REPORT

ON

Smart Mirror using Raspberry Pi

Submitted to the Faculty of Engineering of

Savitribai Phule Pune University, Pune.

In partial fulfillment of the requirements

for the award of degree

Bachelor of Engineering

(Electronics and Telecommunication Engineering)

By

HIMANI KAREKAR 71625920G

ARAVIND NAIDU 71615961D

SNEHAL PAWAR 71841050F

Under the guidance of

Prof. S. B. Borse

Department of Electronics and Telecommunication Engineering

KCT's Late G. N. Sapkal College of Engineering,

Anjaneri, Nashik-422212

[2019-20]

Kalyani Charitable Trust's

LATE G. N. SAPKAL COLLEGE OFENGINEERING

SAPKAL KNOWLEDGE HUB, Kalyani Hills, Anjaneri,
Trimbakeshwar Road, Nasik.

Department of Electronics & Telecommunication Engineering

Certificate

This is certified that the Project Report entitled,

"Smart Mirror using Raspberry Pi"

Submitted By

HIMANI KAREKAR 71625920G

ARAVIND NAIDU 71615961D

SNEHAL PAWAR 71841050F

In partial fulfillment of the requirement for the award of the degree of
BACHELOR OF ELECTRONICS &TELECOMMUNICATION ENGINEERING
Savitribai Phule Pune University, Pune

Prof. S. B. Borse
Head of Department
Project Guide

External Examiner

Prof. (Dr.) S.B. Bagal
Principal

College Seal

ACKNOWLEDGEMENT

With all due respect and gratitude, we would like to thank all people who have helped us directly or indirectly for this project.

We take this opportunity to express our heart-felt gratitude towards our Project Coordinator **Prof. L. K. Chouthmol** and Head of Department and Guide **Prof. S. B. Borse** for his constant encouragement, wonderful technical guidance and support throughout the course.

We express our thanks to Principal **Prof. (Dr.) S. B. Bagal** for his continuous support. We are also thankful to all teaching & non-teaching staff of Electronics & Telecommunication Department for their kind co-operation and guidance for preparing and presenting this project work.

We take this opportunity to express our gratitude towards our **parents** and **friends** without them it would have not been possible.

HIMANI KAREKAR
ARAVIND NAIDU
SNEHAL PAWAR