



Gujarat Technological University School of Engineering and Technology

Research Talk on “Intelligent Air Pollution Prediction for Patient with Asthma Attack Based on Wireless Sensor Technology”

Date: 2nd April 2025

Coordinated by Prof. G. D. Makwana

Details of Expert



Prof. Saif Saad Fakhruddin, Asst. Lecturer at Department of Biomedical Engineering, College of Engineering, University of Mosul, Iraq. He did B.Sc in Medical Electronic Instrumentation and M.Sc in Medical Electronic Instrumentation from Northern Technical University and Middle Technical University, respectively. He has 7 years of teaching experience and is involved in the development of medical devices. He has published more 10 research papers and filed one patent.

- Targeted Audience: PG students of Computer Engineering (Cyber Security), Artificial Intelligence and Data Science, Internet of Things, and UG students of Computer Engineering and Electronics & Communication Engineering and Ph.D. Scholars
- 100 Students have actively participated in the research talk

Topics covered in the Research Talk

- Motivation to develop the Asthma Attack System
- Existing asthma attack monitoring and air pollution monitoring systems
- Design, and development of asthma management system – validation of the integrated biosensors against standard medical devices
- Develop of the algorithm for the reduction of Power consumption and increase battery life of the Asthma Attack System
- Development of the algorithm to predict asthma attack based on cough and heart rate and predict the asthma and heart rate.
- Predicts the accuracy of air pollution quality with integration of the Asthma Attack System.



Prof. Kiran Parmar facilitated to Prof. Saif Saad



Prof. Saif Saad delivered his research talk



Gujarat Technological University

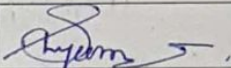
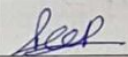
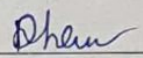
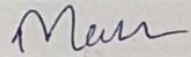
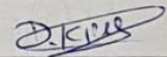
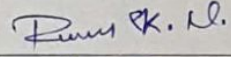
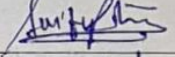
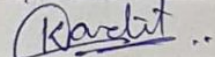
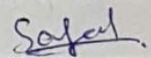
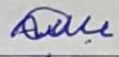
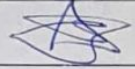
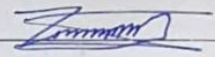
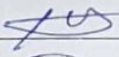



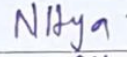
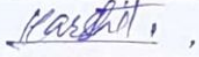
School of Engineering and Technology

Research Talk on "Intelligent Air Pollution Prediction for Patient with Asthma Attack Based on Wireless Sensor Technology"

Invited Speaker: Said Saad Fakhrulddin, Department of Biomedical Engineering,
College of Engineering, University of Mosul, Iraq

Date:

Attendance Sheet

No.	Student Name	Class	Signature
1	Darji Shyam	ME-CS	
2	Deep Lad	ME-CS	
3	Kagnani Dhruv	ME-CS	
4	Patel meitree	ME-CS	
5	Parmer Dipal	ME-CS	
6	RANA KRUNAL	ME-AIDS	
7	Patel Saibh m	BE-CSET	
8	Parit Krishna	BE-CSET	
9	Safal Jha	BE-CSET	
10	ALIYU GAMBO ABUBAKAR	BE-CE	
11	Mohammed Saleh Alhadi	BE-CE	
12	ZELALEM MARKOS DAFE	BE-CE	
13	Maitavara Nitunj	BE-CE	
14	Naresh Bhatia	BE-CE	
15	Sharma Niket	BE-CE	
16	Kathan Patel	BE-CE	
17	Nitya Bhavsar	BE-CE	
18	Harshit Jain	BE-CE	

No.	Student Name	Class	Signature
19	Kashyap padariya	BE-EC	Kashyap
20	Pratham Modi	BE-EC	Pratham
21	Darsh Dobariya	BE-EC	D. Dobariya
22	Saru Patel	BE-EC	Saru
23	Bhavisha Thanki	ME-AIDS	BH
24	PROGGA PRONMITA	BE-CE	Proggga
25	TETHI DAS	BE-CE	Tethi
26	Mithun Dev	BE-EC	Mithun
27	Sojitra Ruchi	BE-CE	Sojitra
28	Dhwani Bhatt	BE-CE	Dhwani
29	Nidhi Pragada	BE-EC	Nidhi
30	Kamdar Kaavya	BE-EC	Kaavya
31	Patel Shreya	BE-CE	Shreya
32	Parmar Trushti	BE-CE	Trushti
33	Khwshi Patel	RE-EC	Khwshi
34	Patel Suchi	RE-EC	Suchi
35	Manu Mahesh	BE-CE	Manu
36	Patel Vishva	BE-CE	Vishva
37	Sarvaniya Diya	BE-CE	Sarvaniya
38	Shivani Munjani	BE-CE	Shivani
39	Desai Riddhi	BE-CE	Riddhi
40	Patel Sneha	BE-CE	Sneha
41	Gajjar Priya	BE-CE	Priya
42	Kashvi Bhuloliya	BE-EC	Kashvi
43	Ishwari Furule	BE-EC	Ishwari

No.	Student Name	Class	Signature
44	Parmar Smit	BE - CE	<u>Smit Parmar</u>
45	Patel Datt	BE - CE	<u>Datt Patel</u>
46	Prajapati Om	BE - CE	<u>Om</u>
47	Desai Khush	BE - CE	<u>Khush Desai</u>
48	Grandhi Het	BE - CE	<u>Het Grandhi</u>
49	Patthar Shahad	BE - CE	<u>Shahad Patthar</u>
50	Vedant Chauhan	BE - CE	<u>Vedant Chauhan</u>
51	Vishwesh Panchal	BE - CE	<u>Vishwesh</u>
52	Yug Patel	BE - CE	<u>Yug Patel</u>
53	Patel Divy . M.	BE - CE	<u>Divy</u>
54	Prajapati krish H.	BE - CE	<u>Krish</u>
55	Adhyawan Ishwar	BE - CE	<u>Ishwar</u>
56	Bharadva Ankit	B.E - CE	<u>Ankit</u>
57	Ribadiya Raj	B.E. - CE	<u>Raj</u>
58	Rungani Jinish	BE - CE	<u>Jinish</u>
59	Munser Khaled	B.E - CE	<u>Khaled</u>
60	Ahmed Abdullah Awadh	BE. C. E	<u>Ahmed</u>
61	Ayush Mittal	BE - CE	<u>Ayush</u>
62	Haru Harshil	BE - CE	<u>Haru</u>
63	Patel Mahir M.	BE - EC	<u>Mahir</u>
64	Krish Panchal	BE - CE	<u>Krish</u>
65	Mil Bhupendraubhai Panchal	BE - CE	<u>Mil Panchal</u>
66	Mit Panchal	BE - EC	<u>Mit Panchal</u>
67	Krishnarajsinh N. Dodiya	BE - EC	<u>Krishnarajsinh</u>
68	Gobel Dhruv Kalpeshbhai	BE - CE	<u>Dhruv</u>

No.	Student Name	Class	Signature
69	charuham Ritika	BE-EC	<u>Ritika</u>
70	Prajapati Helly	BE-EC	<u>P.G. Prajapati</u>
71	Prajapati Avani	BE-EC	<u>Avani</u>
72	Makwana veer	BE-EC	<u>Veer</u>
73	Vora Giridhe	BE-CE	<u>Giridhe</u>
74	chavda Dhruvi	BE-CE	<u>Dhruvi</u>
75	Gohil Jahnvi	BE-CE	<u>Jahnvi</u>
76	Krishna Prajapati	BE-CE	<u>Krishna</u>
77	Nandy Arora	BE-CE	<u>Arora</u>
78	Kachchi Ketui R.	BE-CE	<u>Ketui</u>
79	Gaur Khushi Vinodkumar	BE-CE	<u>Khushi</u>
80	Ananya Hiridhi	BE-CE	<u>Ananya Hiridhi</u>
81	Patel Jahan B.	BE-CE	<u>Patel</u>
82	Kansara Yashvi V.	BE-CE	<u>Yashvi</u>
83	Panchal Vinoda	BE-CE	<u>Vinoda</u>
84	Vaghela Purva L.	BE-CE	<u>Purva</u>
85	Gajjar Kajja B	BE-CE	<u>Kajja</u>
86	Prabha Dubey	BE-EC	<u>Prabha</u>
87	Mahi Vohera	BE-EC	<u>Vohera</u>
88	Zak Vishmayraj	BE-CE	<u>Vishmayraj</u>
89	Ambalika Pithun	BE-CE	<u>Pithun</u>
90	Dhxy Chavda	BE-CE	<u>Dhxy</u>
91	Both Ozar	"	<u>Both</u>
92	Dev Patel	"	<u>Dev</u>
93	Dhwanit Patel	"	<u>Dhwanit</u>
94	Pait mavada	"	<u>Pait</u>
95	Moksh Patel	"	<u>Moksh</u>
96	Pragya Dase	"	<u>Pragya</u>

No.	Student Name /Faculty	Class	Signature
97	Anamika Mittal	Faculty	Anamika
98	Ritisha V. Bhatt	Faculty	Ritisha
99	Anmol Raval	Faculty	Anmol
100	Nidhi Jha	Scholar	Nidhi
101	Sushilkumar Dangiya	Visvesvaraya PhD Scholar	Sushilkumar
102	Ms. Sejal P. Vyas	VPS	Sejal
103	Dhwani Hakani	Research Scholar (ADF)	Dhwani