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Dept. of Medical Electronies Engineering Dr. Ambedkar Institute of Technology

Bangalore - 560 056.

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Ph.D

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Qualific ation

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Institute Passed_o n	NI.	NIL	NIE	NI.	2006	٠	hups://drait.edu.in	Technical Institute	Dr. Ambedkar linstitute of Technology	Department of Medical Electronics Engineering	Assistant Professor		SJCE Myson	Biomedical instrumentation
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A-P. Department

Principal

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· Ambedkar Institute of Technology

List of MSc by Research. awarded

MSc by Research awarded:2019

Student	Supervisor/Co- Supervisor	the Thesis	the University	Completion of the MSc by Research	Abstract of the Thesis
. Nil				Research	

MSc by Research awarded:2020

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MSc by Research awarded:2021

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MSc by Research awarded:2022

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1.	Nil						

Total Number of MSc by Research Awarded from 2019 to 2022; Nil

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Dr. Ambedkar Institute of Technology Bangalore - 560 056.

List of Ph.D. awarded

Ph.D. awarded:2019

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Ph.D. awarded:2021

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Dr. Ambedkar Institute of Technology, Bengaluru-56

Name of the Research Centre: Department of Medical Electronics Engineering

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Totla Number of Ph.D Awarded from 2019 to 2022: NIL

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Head of the Department
Dept. of Medical Electronics Engineering
Dr. Ambedkar Institute of Technology
Bangalore - 560 056,

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Principal

Dr.Ambedkar Institute of Technology, Bengaluru-56
Name of the Research Centre: Department of Medical Electronics Engineering

Ph.D. Pursuing:2020

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Dr. Ambedkar Institute of Technology, Bengaluru-56
Name of the Research Centre: Department of Medical Electronics Engineering

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Total Number of PhD Pursuing up to 2022: 01 Totla Number of Ph.D Pursuing from 2019 to 2022: 01

Principal

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Head of the Department
Dept. of Medical Electronics Engineering
Dt. Ambedkar Institute of Technology
Bangalore - 560 056.

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Research Areas:

- 1. Automatic detection of EEG seizure, analysis and prediction
- 2. Brain control interface (BCI)
- 3. Heart Attack Prediction System
- 4. Artificial Intelligence and Machine Learning for Engineering Applications
- 5. IoT based automated systems for industry requirements

6. Medical image processing

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Dept. of Medical Electronics Engineering Dr. Ambedkar Institute of Technology Bangalore - 560 056.

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Research Facilities created/available:

1. Bio Pack



Description: Biopack is equipped with various sensors like electrodes, IR source and detectors, pressure sensors with Bio-amplifiers. Biopack along with the software LabChart are being provided to acquire Bio signals, ECG, EEG, EMG, Temperature, Pulse rate, Heart Sound

Cost:3.5 Lakhs

2. Texas Innovation Laboratory



Description: IoT based solutions for bio medical applications, projects with various launch pads have been realised.

Cost:5 Lakhs under university program.

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Research Priority areas:

- 1. Automatic detection of EEG seizure, analysis and prediction
- 2. Brain control interface (BCI)
- 3. Heart Attack Prediction System
- 4. Artificial Intelligence and Machine Learning for Engineering Applications
- 5. IoT based automated systems for industry requirements
- 6. Medical image processing

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Head of the Department Dept. of Medical Electronics Engineering Dr. Ambedkar Institute of Technology Bangalore - 560 056.

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Head of the Dopartment
Dept. of Medical Electronics Engineering
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Bungalore - 560 056.

Research Faculty details.

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-			University, Chennai,				Professor		To Mark Street Control
yes	2019	2017	Anna	2001	VTU, Belgaum	Signal Prpcessing	Associate	Dr. D K RAVISH	-
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Dept. of Medical Electronics Engineering Dr. Ambedkar Institute of Technology

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Head of the Department

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International Journals

Faculty Publications: 2019

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Neural network based drowsiness detection system using physiological parameter	Design of pneumogramfro chronic obstructive pulmonary disease diagnosis	Title of the Paper
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Faculty Publications: 2020

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Dr.Ambedkar Institute of Technology, Bengaluru-56
Department of Medical Electronics Engineering

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Application of IOT using fuzzy logic controller-Pacemake	Ultra sound image segmenta tion through deep learning based improvise d U-Net	Evaluatio n of performa nce matrix of thyroid segmenta tion by deep learning technique	Signal Processin
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Dr.Ambedkar Institute of Technology, Bengaluru-56
Department of Medical Electronics Engineering

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Head of the Department

Dept. of Medical Electronics Engineering

Dr. Ambedkar Institute of Technology

Industry collaborations

Industry collaborations: 2019

3. Mr.ER Senior	2. Mr. A. CEO,	1. Mr.Sa Gener Health
Mr.ER Rajkumar Senior Engineer BOSCH, Bangalore	Mr. Ayyappa Das CEO, Harvey Medicals Bangalore	Mr.Santhosh Lawrence General manager, WIPRO-GE Health care, Bangalore
Industry expert, BOS member	Industry expert, BOS member	Industry expert, BOS member
2019	2019	2019
https://in.linkedin.com/in/ rajkumarrajappan	https://in.linkedin.com/in/ ayyappa	https://in.linkedin.com/in/ santosh-lawrence-620982 7b

Industry collaborations: 2020

3.	2.	SI.No
Mr.ER Rajkumar Senior Engineer BOSCH, Bangalore	Mr. Ayyappa Das CEO, Harvey Medicals Bangalore	Name of the Industry with complete Address, Email ID, Phone No Mr.Santhosh Lawrence General manager, WIPRO-GE Health care, Bangalore
Industry expert, BOS member	Industry expert, BOS member	Description of the collaboration/Activities taken Industry expert, BOS member
2020	2020	Year 2020
https://in.linkedin.com/in/rajkumarrajappan	https://in.linkedin.com/in/ ayyappa	Link https://in.linkedin.com/in/ santosh-lawrence-620982 7b

Industry collaborations: 2021

	1.		Sl.No
CEO, Harvey Medicals Bangalore	Mr. Ayyappa Das	Email ID, Phone No	Sl.No Name of the Industry with complete Address,
	Industry expert, BOS member	collaboration/Activities taken	Description of the
	2021		Year
ayyappa	https://in.linkedin.com/in/		Link

Industry collaborations: 2022

			Sl.No
CEO, Harvey Medicals Bangalore	Mr. Ayyappa Das	Email ID, Phone No	Sl.No Name of the Industry with complete Address,
	Industry expert, BOS member	collaboration/Activities taken	Description of the
	2022		Year
ayyappa	https://in.linkedin.com/in/		Link

List of Industry Advisory Board

Description of activities so far: BOS members and Industry Advisory Board

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Or. Ambedkar institute of Technology
Bangalore - 560 056.

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International Journals

Student Publications: 2019

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Quarterly plan to realize annual Target(Calender Year 2023)

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Visit to Industry and ResearchOrganizations(IISc /IIT / IIM / NIT / NIRF Top 25 Govt Institutes / R&D Labs) by Dr AIT R&D Department Members	Organizing Student - R&D Events (For Dr AIT)	FDPs on Research, Consultancy, Patents and related activities(FDP - 04Nos ATAL FDP / IIT / IIM / NITs per year)	Student Projects (Financial Support From KSCST / VTU etc)	MOUs / IIC Labs (01 Per Department Per Year)	Consultancy (Rs.10,000/- or more) - For Each Department	Research Grants - Granted (01 per Department Per Year)	Research Grants - Applied (01 per PhD Faculty Per Year)	Patents - Published (01 per PhD Faculty Per Year)	Patents - Published (01 per PhD Faculty Per Year)	Research Publications Indexed in Scopus / WoS / SCIE - as 1st Author(01 per Faculty per Sem including Student Project)	R & D Avareness Program(Publication, Patent,Funding)-External Experts	R & D Avareness Program(Publication, Patent,Funding)-Internal Experts		Major/Minor Activity
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Bengaluru-560 056

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Publication Statistics

	Year	2022	2021	2020	2019
Public	Scopus Publications	_	_	_	1
Publications	WoS publications		. 1	1	
	Citations	0	8	17	8
	Crossreference citations				
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	google scholar citations				
	books	0	0	0	
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Head of the Department

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