



1. Dr. Imteyaz Ahmad

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Research Gate RG Score- 62

Google Scholar citation: 113

2. **Department: Electronics and Communication Engineering**
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5. **Office Address: Department of ECE, BIT Sindri, Dhanbad, 828123**
6. **Qualification: PhD**

S. No	Degree(UG, PG, PhD)	Specialization	University	Year
1	PhD	Electronics and Communication Engineering	Vinoba Bhave University, Hazaribagh	2016
2	M.E	Electronics Engineering	Mumbai University	2005
3	B.E	Electronics Engineering	Nagpur University	1995

7.Specializations- Analog and digital signal processing, Biomedical Instrumentation

8. Number of PhD candidate registered: 03 under JUT

9. Subjects Taught:

I) UG:- Basic Electronics, Digital Electronics, Communication system, Analog Electronics, Microprocessor, Computer organization and Architecture, Signal and System, Digital Signal Processing, Biomedical Electronics and Biomedical Instrumentation

II) PG:- Digital Signal Processing

10. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	from	to
1.	Associate Professor, ECE	ECE Department, BIT SINDRI	03.02.18	working
2.	Head of Department ECE	ECE Department, BIT SINDRI	01.11.2019	30.11.2021
3.	Assistant Professor (8000 AGP)	BIT SINDRI	07.09.16 Notification	02.02.18 09.01.18

4.	Assistant Professor (7000 AGP)	BIT SINDRI	07.09.11 notification	07.09.16 22.02.17
5.	Assistant Professor (6000 AGP)	BIT SINDRI	07.09.06	07.09.11

II) Research Experience: 03 candidate registered for Ph.D. under JUT

11. Publications:

I) International Journal

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1.	Prevention Of Noise-Induced Hearing Loss For Coal Mines, electronic diagnostic and its Management	International journal for electro computational world knowledge interface- ISSNNO(P).2249-541X ISSN NO(O).2249-5428	Vol-1 Issue-3	Nov.-2011	26-31
2.	Occupational Lung diseases, A study of prevalence in coal mines of Jharkhand state, its electronic diagnostic and e-governance of Health care	International journal for electro computational world knowledge interface- ISSNNO(P).2249-541X ISSN NO(O).2249-5428	Vol-1 Issue-3	Nov.-2011	36-43
3.	A Review of EMG Recording Technique	International journal of Engineering Science and Technology ISSN NO.0975-5462	Vol-4 Issue-2	February-2012	530-539
4.	Signal processing of ECG using Matlab ISSN 2250-3153	International Journal of Scientific and Research Publications	Volume 2 Issue 10	October 2012	1-6
5.	Design of a low cost ECG system	International Journal of Electronics Engineering ISSN : 0973-7383 (IP-0.45)ISSNNO.0973-7383	Vol-4 Issue-2	July-Dec. 2012	229-233

6.	A Review of EEG Recording Techniques	International Journal of Electronics and communication Engineering and Technology(IP-3.5930)ISSN(O) 0976 – 6464(Print)ISSN 0976 – 6472(Online)	Vol-3 Issue-3	Oct. to Dec.-2012	177-186
7.	Power line noise reduction in ECG by Butterworth notch filters: A comparative study	International Journal of Electronics, Communication& Instrumentation Engineering Research and Development ((IP-2.98)ISSN 2249-684X	Vol.-3 Issue-3	Aug.-2013	65-74
8.	A study of Power line interference cancellation using IIR, adaptive and wavelet filtering in ECG	International Journal of Electronics Signals and Systems ISSN: 2231-5969	Vol.-3 Issue-2	2013	53-55
9.	Cancellation of motion artifact noise and Power line interference in ECG using Adaptive filters	International Journal of Electronics Signals and Systems ISSN: 2231-5969	Vol.-3 Issue-2	2013	56-58
10.	Power line interference noise removal in ECG-A Comparative study	International Journal on Computer Science and Engineering (IJCSE) ISSN : 0975-3397	Vol. -7 Issue-2	Feb-2015	13-18
11.	IoT-Based Patient Health Monitoring System	2018 Springer Nature Singapore Pte Ltd.	Volume -471	Jan-2018	177-183
12.	A Review of QRS Detection Algorithms	International Journal of Innovative Research in Science, Engineering and Technology ISSN(Online) : 2319-8753 ISSN (Print): 2347-6710	Vol. 7, Issue 3	March 2018	2930-2936

13.	Improving Performance of basic First Order Difference Operator as a Filter to Remove Base Line Wander Noise in ECG	International Journal of Innovative Research in Computer and Communication Engineering ISSN(Online): 2320-9801 ISSN (Print) : 2320-9798	Vol. 6, Issue 4	April 2018	3893-3898
14.	ECG Signal processing using Adaptive filters	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875	Volume 7, Issue 5	May 2018	2781-2786
15.	A Review of ECG Signal Processing”	International Journal of Innovative Research in Science, Engineering and Technology ISSN(Online) : 2319-8753 ISSN (Print): 2347-6710	Volume 7, Issue 6	June 2018	7542-7551
16.	Protection and monitoring of three phase induction motors	International research journal of Engineering and Technology	Volume 6, Issue 3	March 2019	4419-4421
17.	Experiments in Matlab and Scilab : A Comparative Study	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875	Vol. 8, Issue 5	May 2019	2705-2713
18.	A review of QRS detection by differentiation method	International Journal of Research in Engineering, IT and Social Sciences ISSN-2250-0588 (Online)	Volume-10, Issue-06	June 2020	17-22
19.	QRS detection for heart rate monitoring	International Journal of Electrical Engineering and Technology (IJEET) ISSN Print: 0976-6545 and ISSN Online: 0976-6553 Scopus indexed	Vol.-11 Issue 4	June 2020	360-367
20.	A Time Domain Method for Calculation of Heart Rate Variability	International Journal of Computer Applications (0975 – 8887)	Vol.-176 Issue No.- 40	July 2020	14-17

21.	Self Consistent Quantum Mechanical Modeling of QCA	International Journal of Innovative Research in Science, Engineering and Technology ISSN(Online) : 2319-8753 ISSN (Print): 2347-6710	Vol. 9 Issue 9	September 2020	9072-9078
22.	Base Line Wander, Breathing, Power Line Interference Noise Suppression and QRS Detection in Scilab	International Journal of Computer Applications (0975 – 8887)	Volume 175, Issue 29	November 2020	24-28
23.	Base Line Wander, Power Line Interference Noise Suppression and QRS Detection in ECG Signal using SCILAB	International Journal for Research in Applied Science & Engineering Technology	Volume 8, Issue 11	November 2020	359-363
24.	Smart Attendance Monitoring System with computer Vision Using IOT	Journal of Mobile Multimedia	Vol.17 Issue-3	January 2021	115-126
25.	Digital Control & Readout of MEMS Gyroscope using Second Order Sliding Mode Control	IEEE Sensors Journal,	ISSUE-21 VOL.-22 DOI 10.1109/JSEN.2022.3189475	2022	20567-20574

II) International Conference:

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol./No.	Publication Year	Pages
1.	IoT based Patient Health Monitoring System	International Conference on Microelectronics Electro-magnetic and Telecommunication (ICMEET) ICMEET 2017 BVRIT Hyderabad	Vol.-471	Sept 2017	177-183
2.	Smart attendance monitoring system with Computer vision using IOT	International Symposium on 5G & Beyond for Rural Upliftment 8-9 feb.2020	e-ISBN: 9788770222174	2020	23234-238

III) National Journal :

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1.	Minetech. A publication of CMPDI,ISSN NO.0970-7204	A Review of occupational health hazards electronic diagnostic and e-governance of Health care of miners in coal mines	Vol-33 Issue-2	June-2012	30-40

IV) National Conference :

Sl. No.	Name of the Conference in which publication has been made	Title of the paper	Pages	Publication Year
1.	National seminar at ISMU Dhanbad FECIT-2008	IP TV	204	Oct 2008
2.	National workshop on technological Challenges of 21 st Century the Road Ahead at BIT sindri	Digital Signal Processing for Medical Equipments: A case study for ECG		February 8 th and 9 th 2008
3.	National Seminar on Environmental issue on Geotechnics & Mineral Industries, at B.I.T Sindri	Photo Voltaic Cell the demand of modern era.	284	April 2008
4.	National seminar at ISMU Dhanbad RAIT-2009	Mobile phone based ECG monitoring system	119	Feb-2009
5.	The Institution of Engineers(India) & B.I.T Sindri World Environment Day Seminar -2009	Sensor-based, Web Service-enabled, Emergency Medical Response System	77	June-2009
6	National seminar at B.I.T Sindri RTEFS-2009	EEG Signal Acquisition System	85	2 nd and 3 rd Nov 2009
7	National seminar organized by The Institution of Engineers(India) at CIMFR ,Dhanbad AMPS-2011	An Implementation of Real-time Monitoring and Analysis in Telemedicine	287	26 and 27 th Aug.2011
8	National seminar organized by The Institution of Engineers(India) at CIMFR ,Dhanbad AMPS-2011	Location Tracking System & Sensor Based Communications For Mining	377	26 and 27 th Aug.2011
9	National seminar at ISMU Dhanbad, FECIT-2011	A Real Time Monitoring and Tele-medical Data Acquisition System for Use in Preventive Medicine	83	3-4 Nov-2011
10	National seminar on Indian Nuclear power programme :Challenges and opportunities-INCO-12	Review of medical image reconstruction an aid in diagnostic of health hazards and its biological effects	58	April 14,15 2012
11	National seminar on Indian Nuclear power programme: Challenges and opportunities-INCO-12	Health hazards of coal combustion	89	April 14,15 2012
12	National seminar on Energy and Environment for Sustainability EES-	A DSP Approach to calculation of HRV	17	16-17 March

	2013			2013
13	National Seminar on environmental Issues on Environmental Issues: Protection, Conservation and Management (EIPCM)	Arrhythmia Detection Using Matlab. for Coal Miners	152	26-27 Feb.2016

12. Conference/Workshop/Seminar Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Name of Coordinator /Organizing secretary	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses	No. of Participants
1.	DSP and Sensors	Dr. C. Periasamy Local Coordinator-Dr. Imteyaz Ahmad	Electronic and ICT Academy ,Ministry of IT, Gov. of India	10-14 Dec. 2018	21
2.	WINTER FDP PROGRAM ON NATURAL LANGUAGE PROCESSING	Local Coordinator-Dr. Imteyaz Ahmad	do	06-10 Jan. 2020	25
3.	International Symposium on 5G & Beyond for Rural Upliftment	Dr. J Kumar Dr. Imteyaz Ahmad	IIT(ISM) Dhanbad, BIT Sindri	8-9feb.2020	200
4.	Multi-physics Simulation for teaching and research	Dr. Imteyaz Ahmad	BIT Sindri	22 Nov.2019	25
5.	Utility of Soft tools in Industry and g Director, BIT Sindri Patron Academia	Dr. Imteyaz Ahmad Dr. S.K Verma	BIT Sindri	27th – 31st January, 2021	70

13. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Date	Organizing Institute
	National workshop on Technological Excellence Through Value Engineering	7 th April 2007	BIT Sindri
	National workshop on Industry Institute Interaction	13 th – 14 th July 2007	BIT Sindri
3.	Workshop on Parallel & Distributed computing	March 28 th 2008	I S M U Dhanbad

	LAB VIEW	7 th – 8 th March 2008	BIT Sindri
	Workshop on Rational Suite	23 rd – 24 th Aug. 2008	B I T Mesra
	National Seminar on Environmental issue on Geotechnics & Mineral Industries.	April 4-5, 2008	BIT Sindri
7.	National workshop on technological Challenges of 21 st Century the Road Ahead.	February 8-9, 2008	BIT Sindri
8.	National Seminar on Environmental issue on Geo-techniques & Mineral Industries.	April 4-5, 2008	BIT Sindri
9..	National Workshop on VLSI & Embedded System Based Design.	March 6-8, 2009	NIT Jamshedpur
10.	Recent Trends in Emerging Frontiers of Physical Science.	Nov. 2-3, 2009	BIT Sindri
11.	National Seminar on Energy and Environment for Sustainability	Mar. 16-17, 2013	BIT Sindri
12.	All India Seminar on RAMM	Feb. 07-08, 2014	BIT Sindri
13.	Science and Technology of Special Steels and Nano-materials	Feb.17-18, 2018	BIT Sindri
14.	Workshop on “Multiphysics Simulation for Teaching and Research”	Nov. 22, 2019	TEQIP,BIT Sindri

Serial no.	Name of Short term Course	Duration	Organized by
1.	Computer Fundamentals & Programming Languages	4th Aug. to 12th Sept.,1997	I.S.T.E. CHAPTER M.H. Saboo Siddik Institute of Engineering & Technology, Mumbai-8
2.	Digital Signal Processing	October 13-17,1997	DTE,Maharashtra State Government Polytechnic,Pune
3.	Induction phase-1	22th June to 17th July 1998	Government Polytechnic, Mumbai,Bandra(E)
4.	16-bitMicroprocessor Architecture and Programming	June 8th -12th 1998	DTE,Maharashtra State Government Polytechnic,Pune
5.	Managing the Departments	Aug 4th -8th 2003	TTTI Ext. Centre,Pune
6.	Certified PLC Programmer	April 7th – 12th 2008	Prolific System & Technological Pvt. LTD.
7.	STTP on DSP kit TMS320LF2407A &6713	31 March – 2nd April 2007	BIT,Mesra,Ranchi

8.	DSP tools & Practice	June 4th -9th 2007	G.S Sanyal School of Telecom.,I.I.T.,Kharagpur
9.	Computer Architecture and Design	29thOCT.– 11th NOV.2008	N.I.T,Rourkela
10.	LAB VIEW	March 7th- 8th 2008	Electrical Deptt.,B.I.T,Sindri
11.	Developing Personal & Professional Effectiveness	December 16-24,2006	XLRI,Jamshedpur
12.	Pedagogy-II	October 14-19,2008	TEQIP CELL B.I.T.,Sindri
13.	Soft skills for professional Effectiveness	5.12.11 to 16.12.11	NITTTTR,Bhopal
14.	ISTE sponsored STTP on performance enhancement skills	23.8.12 to 03.08.12	ISTE BIT Sindri Dhanbad-828123
15	WORKSHOP ON OUTCOME BASED EDUCATION AND ACCR	16/3/18 to 17/3/8	BIT Sindri
16 17	SUMMER TRAINING PROGRAM ON ACTIVE LEARNING Advancement and application of soft computing in Electrical systems	18/6/18 to 22/6/18 13/7/18 to 17/7/18	IIT Gandhinagar BIT Sindri
18	WINTER PROGRAM ON DSP and sensor	10/12/18 to 14/12/18	BIT Sindri
19	WINTER PROGRAM ON AI AND MACHINE LEARNING	17/12/18 to 21/12/18	BIT Sindri
20	ROBOTICS AND AI	24/6/19 to 28/6/19	BIT Sindri
21	INTERNET OF THINGS	14/10/19 to 18/10/19	BIT Sindri
22	WINTER FDP PROGRAM ON NATURAL LANGUAGE PROCESSING	06/01/20 to 10/01/20	BIT Sindri
23	WINTER FDP PROGRAM ON ICT TOOLS FOR T/ L PROCESS AND INST.	13/01/20 to 17/01/20	BIT Sindri
24	INTERNATIONAL SYMPOSIUM ON FIVE G	8/2/20 to 9/2/2020	BIT Sindri
25	Digital transformation in teaching learning process	6/4/20 to 22/4/2020	BIT Sindri

26	Free Open source tools for Education and Research	07/07/20	BIT Sindri
27	Transforming pedagogy in India	01.8.20 to 3.8.20	NIT Jamshedpur
28	Design and Analysis of Microwave Systems using ANSYS HFSS	Nov.02-06 2020(1 Week)	BIT Sindri

14. Administrative Position Held:

S. No.	Position Held	From (date/month/year)
	Co-ordinator of Dept. of ECE, CSE and IT, BIT Sindri.	Jan. 2007 to 02.08.11
	Head Department of ECE, BIT Sindri	01.11.2019 to 30.11.2021
	GATE Co-ordinator, BIT Sindri	Feb. 2017 to Nov. 2021
	Hostel Superintendent, Hostel No. 19, BIT Sindri	01.04.17 to 31.10.19
	Professor In charge IETE Club	2012 to Working

15. Members of Professional Bodies:

1) AMIE (AM-097625-6)

2) ISTE (LM-29284).

16. Completed two online course from NPTEL/SWAYAM Jan-March/April 2022

1) Discrete time signal processing (Certificate received)

2) Biomedical signal processing (Certificate received)

Completed two online course from NPTEL/SWAYAM July to October 2022

3) Real time DSP(Certificate received)

4) Digital circuits(Certificate received)

Completed two online course from NPTEL/SWAYAM Jan-March/April 2023

5) Op-amp practical applications: Design, Simulation and implementations (Certificate received)

6) Digital signal processing (Certificate received)

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