



बी० आई० टी० सिन्दरी, धनबाद, झारखण्ड
B.I.T. SINDRI, DHANBAD, JHARKHAND
(Department of Higher & Technical Education)



**ELECTRO-VISION
2022**

DEPARTMENT'S OFFICIAL PUBLICATION

THIRD EDITION

PATRON

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Ritesh Kumar (ECE, 2K20)

From the Director's Desk

“Success is not final, failure is not fatal, it is the courage to continue that counts!”



I am elated to know about **“ELECTRO-VISION 2021”**, the departmental newsletter of Department of Electronics & Communication Engineering. This newsletter reflects the unbreakable team work and dedication of the department towards the growth of the institute.

The Department of Electronics & Communication Engineering was established in 1957. It boasts of a unit of learned and dedicated faculty members and sincere staffs who work with great zeal and enthusiasm to provide vibrant and optimum learning environment to the students and help them acquire skills which are required to excel in today's competitive environment.

It has well equipped laboratories, required for undergraduate as well as postgraduate programs. Moreover, it establishes new laboratories as per the need of recent advancements in technologies and also upgrades its laboratories on a regular basis to provide better facilities to its students. In addition to this, the department organizes workshops and training programs not only for the students but also for the esteemed faculties. The department has also organized an international symposium on 5G and beyond for rural upliftment, which has left a golden impression on the global platform of engineering and technology. Due to its dedicated efforts towards the future of its students and the institute, the department has given many legendary alumnae, working in different industries and academia throughout the globe.

With this, I would like to congratulate the whole team of Electronics & Communication Engineering Department including Faculty Members, Non-Teaching Staffs and Students for publishing the Newsletter and wish for their bright and promising future ahead.

Prof. (Dr.) D.K. Singh
Director, BIT Sindri

From the HOD's Desk

“Education is not just about going to an institute and getting a degree. It is about widening the knowledge and absorbing the truth about life.”




I am highly delighted to present the newsletter of our department **“ELECTRO- VISION 2021”** which carves out all the achievements and activities held in the last two academic sessions 2020-2022. The newsletter intends to hold up to view about the various proceedings, functions and happenings in the department.

The department offers a wide range of innovatively designed course structure in four years of B.Tech program which is updated time to time to keep a pace with the upcoming technologies and meet the requirements of the industries and stakeholders as well. Our students provide an ample testimony to the emphasis who have been placed on the industrial needs of our country.

The department believes in serious academic pursuit and encourages radical and original thinking which paves the way for creativity and innovative ideas. To motivate the research-oriented thought process, various activities are carried out in domains like VLSI, Communication, Radar, Signal Processing, IoT, Control & Robotics etc. During the entire course, the students are encouraged to have hand-on experience, internship projects with reputed companies. Working on these projects helps them to inculcate teamwork and leadership qualities. They are provided with all the opportunities which ignite their queries and curious mind so that they can provide the combination of creative thinking and theoretical knowledge in whichever field they get into. **“Education is for improving the lives of others and leaving the world better than before.”** Believing on this, all the faculty members and students have been working day in and day out with full dedication and efforts.

I congratulate all the faculty members especially **Prof. Imteyaz Ahmad** and their student's team **Ritesh Kumar** and **Shreya Paul** who have taken the initiative and worked hard to produce this newsletter.

I welcome you all to be a part of the journey whose main motto is to attain excellence in education, training and research.


Prof. (Dr.) M. G. Tiary
 HOD, ECE

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ABOUT US

The department was established in the year 1957 with an intake of 30 students. At present department offers a four-year B. Tech degree course with an intake of 56 students and a lateral entry of 06 students. The department has excellent infrastructure and well-equipped laboratories which includes three newly developed advanced labs helping students to groom themselves to the cutting edge technology. Department also runs a Centre of Excellence Lab in Collaboration with Siemens & Design Tech to provide hands on training on PLC and SCADA not only for department students but also for the student of entire Jharkhand. Department possess dynamic and well-qualified faculty members with expertise in various domains of electronics and communication engineering.

The vision of the department is to be recognized as a center of academic excellence for globally competent, professionally, and socially responsible Electronics & Communication engineers and entrepreneurs. Department organize FDPs and workshops for teaching and non-teaching staff as well as student to give exposure and knowledge in current domain. In the current year the department organized FDP on 5G communication, wireless and mobile communication, DSP and sensors, antenna trends, VLSI chip design, natural chip processing, and IOT. Recently a two day "International Symposium on 5G & Beyond for Rural Upliftment" was jointly organized by the Department of Electronics & Communication Engineering, BIT Sindri

and Department of Electronics Engineering, IIT(ISM) Dhanbad, Jharkhand. The aspiration of the Symposium was to provide a platform for exploring and exchanging ideas among the networked people. It explains how combination of 5G, artificial intelligence, smart platforms and the Internet of Things can allow for embedding artificial intelligence into 5G communication systems for the smarter use of network generated data, the automated enabling of network operators and service providers to adapt to changes in traffic patterns, security risks, and user behavior and thus paving the way towards safe and reliable next generation wireless ecosystems that go beyond the urban area to open the doors to equality in access to knowledge and information technology into the rural regions. In this assessment year, three faculty members of the department has awarded the Ph.D. degree whether the other two faculties have enrolled for Ph.D. program at IIT(ISM) Dhanbad. Moreover, it has also grabbed a MHRD sponsored CRS Project with grant of rupee 3,86,000/-

Students of our department are encouraged to participate and organize various community and development programs through clubs, technical events and social & cultural activities. These activities provide additional exposure to the current development along with enhancing technical, social and cultural knowledge of the students..



INSTITUTE VISION & MISSION



INSTITUTE VISION

- To provide valuable human resources for the industry and society through the excellence in technical education and scientific research for the sustainable development.



INSTITUTE MISSION

- To offer the state of the art Undergraduate, Postgraduate and Doctoral Programs.
- To generate the new knowledge by quality research.
- To undertake the collaborative projects with industries and society.
- To develop human intellectual capacity with its full potential.
- To solve the problems of society through innovation in technology.



DEPARTMENT VISION & MISSION



DEPARTMENT VISION

- To be recognized as a center of academic excellence for globally competent, professionally and socially responsible Electronics & Communication engineers and entrepreneurs.



DEPARTMENT MISSION

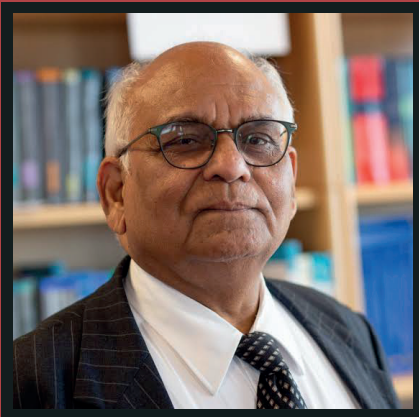
- To prepare the students for a successful career by blending theoretical knowledge and practical skills with employability and entrepreneurial traits by offering UG, PG and Doctoral program in different domains of Electronics & Communication Engineering.
- To establish state of art laboratory and research facilities for academic excellence and promotion of quality teaching as well as learning process.
- To inculcate team spirit and leadership qualities and produce socially acceptable engineers with ethical and human values.
- To contribute to the country and the society at large by enhancing the interaction between academia and industries for addressing the need of the mankind.



FACULTIES INTERACTION

Dr. Madan Gopal Tiary received his B.Sc. degree in Physics Honors from R. K. Mission Residential College, Narendrapur, Calcutta University for which he was awarded National Scholarship, B.Tech and M.Tech degree both from Institute of RadioPhysics and Electronics, Calcutta University and PhD degree from Jadavpur University, Jadavpur, West Bengal, India. He is presently serving B.I.T Sindri, Dhanbad, Jharkhand as Professor in the Department of Electronics and Communication Engineering and Sr. Administrative Officer, B.I.T Sindri.

He previously served Asansol Engineering College, Asansol, West Bengal, India in various capacities like Principal, Dean and Head of the Department, ECE etc. He has chaired many seminar, workshop, and conferences. He is also associated with Institution of Engineers (India) Asansol Local Centre where he was previously in the capacity of the Honorary Secretary. His research interest is in the field of Microwave Engineering which includes Microstrip Antenna, Microstrip line etc. He has published more than 25 research papers in International Journals as well as International and national Conferences.



Dr. Ramjee Prasad is an Adjunct Professor of BIT Sindri. He received his B.Sc. degree in Electronics and Communications Engineering from BIT Sindri in 1968, followed by the M.Sc. degree and his Ph.D. degree from BIT Mesra, Ranchi in 1970 and 1979 respectively. He is currently playing multiple roles as the founder president of CGC since April, 2016, founder chairman of Global ICT Standardisation Forum for India since 2009, professor of Wireless Information Multimedia Communications since 1999 and the founder director of Centre for PersonKommunikation, Aalborg University, Denmark since 2004.

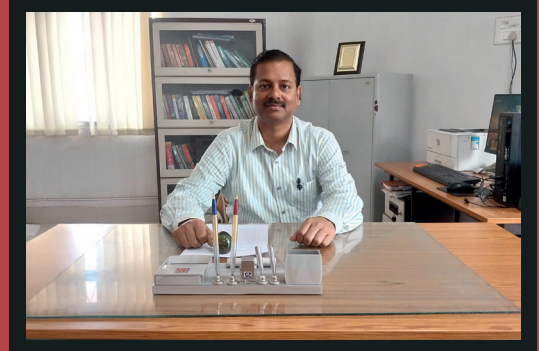
Dr. Imteyaz Ahmad received his master's degree from VJTI, Matunga, Mumbai-19 under Mumbai University, Mumbai, India and Ph.D. degree from BIT Sindri under Vinoba Bhave University, Hazaribagh, India. He is currently an Associate Professor with the department of Electronics and Communication Engineering, BIT Sindri, Dhanbad, India. His current research interests include Bio-instrumentation and Bio-medical signal processing.





Dr. Amar Prakash Sinha is involved in teaching and research since 2002, received the M.Tech in Microelectronics degree from Panjab University, Chandigarh, and the Ph.D. degree from IIT (ISM), Dhanbad, India. He is currently Associate Professor in Department of ECE and Nodal Officer, TEQIP, BIT Sindri, Dhanbad, India. His current research interests include Semiconductor Devices, Nanoelectronics, VLSI, IoT and Quantum Computation.

Dr. Arvind Kumar is involved in teaching and research since 2003. He received his master from BIT Mersa, Ranchi and Ph.D from BIT Sindri, VBU Hazaribag, in the field of microwave engineering. He has authored more than 15 research papers in different journals and conferences. He is member of IET. He is associated with the department since 16th September, 2006 and having more than 17 years of teaching experience. Moreover, he also has organized one international Symposium and many National level FDP program in the department.



Mr. Jagveer Singh Verma is currently working as Assistant Professor in the Department of Electronics and Communication Engineering under TEQIP Phase III project. He bears a total teaching, industrial and research experience of 18 years. He had completed his Bachelor's degree from Nagpur University and Master's degree from Amravati University. Currently he is pursuing his Ph.D. from IIT (ISM) Dhanbad. During his Masters

he had achieved the best M. Tech Project award among SAARC

includes Analog and Mixed signal design. He had published around 20 research papers in International journals and conferences. He is associated with BIT SINDRI since 4th Jan 2018.

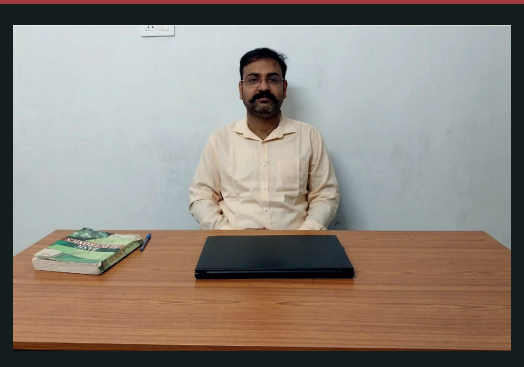
Dr. Praveen Kr. Sahu Dr. Praveen Kumar Sahu received the M.Tech. and Ph.D. degrees from the Department of Electronics Engineering, Indian Institute of Technology, Banaras Hindu University, Varanasi, India, in 2013 and 2020, respectively. He is presently working as an Assistant Professor with the Department of Electronics and Communication Engineering, BIT Sindri, Dhanbad, India. His research interest includes fabrication and characterization of organic/inorganic-based devices for gas sensing applications.





Mrs. Sangeeta Kumari received her B.Sc Engineering degree from Maulana Azad College of Engineering and Technology, Patna, Bihar, India in the year 2001 and M.Tech from B.I.T Sindri, Vinoba Bhave University Jharkhand, India in the year 2009. She had worked as an adjunct faculty at NIFFT Hatia Ranchi. She teaches Microprocessor, Digital Electronics, Basic Electronics, Mobile Communication, RTES, C++, Microwave Engineering and Advanced EMF to undergraduate students. She is Laboratory In charge of Microwave Engineering Lab.

Mr. Aditya Kumar received his B.E. degree in Electrical Engineering from GITS, Gwalior in 2017 and the M. Tech degree in Energy Management from DAVV (School of Energy & Environment) in 2020. He is currently working as assistant professor in the department of ECE and teaches Basic Electronics and Renewables (Solar & Bio-Gas). His research interests include solar PV and EV.

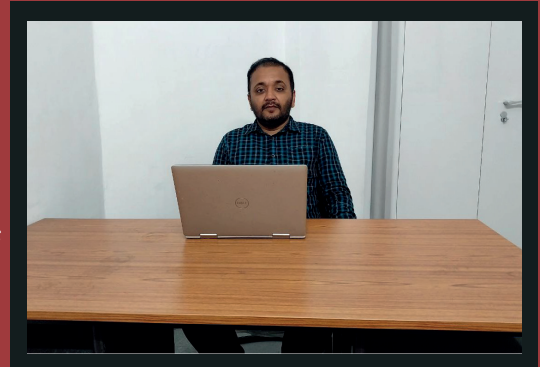


Dr. Prashant Kr. Singh received his B. Tech degree in electronics and telecommunication engineering from COER, Roorkee in 2007 followed by his M.E. degree in wireless communication and Ph.D. degree from BIT Mesra, Ranchi in 2012 and 2018 respectively. He is currently working as an assistant professor in the department of ECE and has teaching experience of almost fourteen years. He has also served as an assistant director at State Forensic Science Laboratory (SFSL), Hotwar, Ranchi, has been the holder of several administrative positions and is a potential reviewer of various journals and different publications.

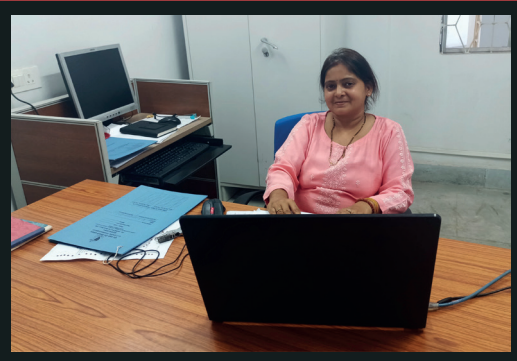
Mr. Nishant Kumar received his B. Tech degree from B. Tech degree in Electronics and Communications Engineering from Biju Patnaik University of Technology, Bhubaneswar in 2012 and his M. Tech in communication and networks from NIT Rourkela in 2015. He has also served as Core Network Transmission Engineer at Bharat Sanchar Nigam Limited (BSNL) for almost five years. He is currently working as assistant professor and has teaching experience of almost seven years. His publication works include several international conferences and a journal on dual port cognitive radio..



Gunjan Gandhi received his B.E. degree in Electronics and Telecommunication Engineering from BIT Durg in 2009 and his M. Tech degree in Telecommunication Technology and Management from IIT Delhi in 2012. He is currently working as an assistant professor in the department of ECE and has teaching experience of almost ten years. His publication works consist of several international journals. His research interests include the field of telecommunication.



Mrs. Minu Manjari received her B.E degree in Electronics and Communication Engineering from Turba institute of Engg. & Technology, Bhopal and her M. Tech degree in control system from B.I.T Sindri, VBU. She is currently working as an Assistant Professor in the department of ECE and has an experience of twelve years of teaching in several colleges. She has also been the part of a symposium on regulation and policy for power sector. Her research interests include the field of control system.



TECHNICAL STAFF

Mr. Vivek Dehri received his diploma in electronics engineering from BIT Mesra Ranchi. He is currently working as Instructor in the department of electronics and communication engineering BIT Sindri. His interest field in the hardware and software laboratory: digital electronics, basic electronics, analog electronics, multisim, autodesk eagle software, arduino, pcb design, soldering, desoldering. He previously worked as Senior Technician in the department of electronics and communication engineering BIT Extension Centre Patna. He is currently pursuing degree from IET Kolkata.



MR. VIVEK DEHRI
(LAB INSTRUCTOR)

FACULTY PUBLICATION

Authors	Title/ Topic of Paper	Name of Journal	Publication Year
Dr. Imteyaz Ahmad	Smart Attendance Monitoring System with Computer Vision Using IOT	Journal of Mobile Multimedia River journal	2021
Dr. Imteyaz Ahmad	Digital Control and Readout of MEMS Gyroscope Using Second Order Sliding Mode Control	IEEE Sensors Journal	2022
Dr. Imteyaz Ahmad	Aliasing phenomenon and its effect in digital signal processing	International Conference on Nanoelectronics	2022
Dr. Imteyaz Ahmad	Base Line Wander, Power Line Interference Noise Suppression and QRS Detection in ECG Signal	IJRASET	2020
Dr. Imteyaz Ahmad	Base Line Wander, Breathing, Power Line Interference Noise Suppression and QRS Detection	International Journal of Computer Applications	2020
Dr. Imteyaz Ahmad	A Time Domain Method for Calculation of Heart Rate Variability	International Journal of Computer Applications	2020
Dr. Imteyaz Ahmad	A review of QRS detection by differentiation method	IJREITSS	2020
Dr. Imteyaz Ahmad	QRS Detection for Heart Rate Monitoring	International Journal of Electrical Engineering and Technology	2020
Dr. M.G.Tiary	A Multiband Antenna using Plus Shaped Fractal like Element and Stepped Ground Plane.	International Journal of RF and Microwave Computer Aided Engineering, Wiley	2020
Dr. M.G.Tiary	UWB Mono Pole Antenna with Dual Band Notched Characteristics	International Journal of Microwave Optical Technology Letter, Wiley	2020
Dr. M. G. Tiary	A Multiband antenna using plus-shaped fractal-like elements and stepped ground plane	International Journal of RF and Microwave Computer Aided Engineeringthis	2020

Authors	Title/ Topic of Paper	Name of Journal	Publication Year
Dr. Arvind Kumar	IoT based energy efficient agriculture field monitoring and smart irrigation system using nodeMCU	Journal of Mobile Multimedia River journal	2021
Dr. Imteyaz Ahmad	UWB monopole antenna with dual-band-notched characteristics	Microwave and Optical Technology Letters	2020
Dr. Praveen Kr. Sahu	Polymer/Graphene oxide nan composite thin film for NO ₂ sensor: An in situ investigation of electronic, morphological, structural, and spectroscopic properties	Scientific Reports	2020
Dr. Praveen Kr. Sahu	MoS ₂ Assisted Self-Assembled Poly(3-hexylthiophene) Thin Films at an Air/Liquid Interface for High-Performance Field-Effect Transistors under Ambient Conditions	The Journal of Physical Chemistry C	2020
Dr. Amar P Sinha	Self Consistent Quantum Mechanical Modelling of QCA	IJRSET	2020
Dr. Amar P Sinha	Effect of Shape of Quantum Dots on the Energy Levels of Electrons	IJMRSET	2020
Dr. Amar P Sinha	Controlled NOT GATE using Quantum Dots	IJAREEIE	2020
Dr. Amar P Sinha	Process Selection of Photolithography in VLSI	IJIRCCE	2020
Dr. Amar P Sinha	Simple Quantum Mechanical Modeling of Single Electron Fault in QCA	IJRSET	2020
Dr. Amar P Sinha	Base Line Wander, Breathing, Power Line Interference Noise Suppression and QRS Detection in Scilab	IJCA	2020

Authors	Title/ Topic of Paper	Name of Journal	Publication Year
Dr. Prashant Kr Singh	Design of Novel Radial Folded Microstrip Patch Antenna for WiMAX Application	International Conference on Computational Techniques and Applications	2022
Dr. Prashant Kr Singh	Dual-Band Stop Filter with Controllable StopBands Based on Defect in Shunt Radial Stub	International Conference on Computational Techniques and Applications	2022
Dr. Prashant Kr Singh	RF Front-End BandPass Filters for GPS Receiver	Fourth International Conference on Microelectronics, Computing and Communication Systems	2020
Dr. Prashant Kr Singh	Thin-Film Photovoltaic Devices with Asymmetric	Low-Dimensional Nanoelectronic Devices Publisher	2022
Dr. Prashant Kr Singh	Charge Storage Mechanism in Proteotronic Capacitors	Low-Dimensional Nanoelectronic Devices Publisher	2022
Dr. Prashant Kr Singh	A Survey on Antennas for IIoT Application	Industrial Internet of Things Technologies and Research Directions Publisher	2022
Dr. Prashant Kr Singh	Design and Simulation of Microstrip Antenna for Terahertz Applications	Generation, Detection and Processing of Terahertz Signals Publisher	2022
Dr. Prashant Kr Singh	High-Sensitive Terahertz Biosensors	Advanced Materials for Future Terahertz Devices, Circuits and Systems Publisher	2021
Dr. Prashant Kr Singh	Terahertz Antennas for Future Communications	Advanced Materials for Future Terahertz Devices, Circuits and Systems Publisher	2021
Dr. Prashant Kr Singh	Possibilities of 5G and its Application in Rural India	International Symposium on 5G & Beyond for Rural Unlifment.	2020

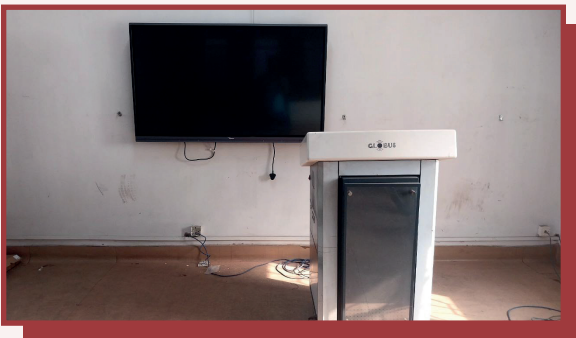
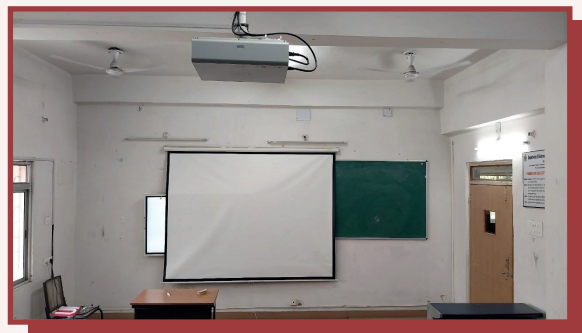
SEMINAR AND FDP ATTENDED

Faculty Name	Title/ Topic of Event	Organized By	Year
Dr. M.G.Tiary	Faculty Development Program on Digital Transformation in Teaching Learning Process	IIT Bombay BIT Sindri	2020
Dr. M.G.Tiary	Workshop on Design and Analysis of Microwave Systems using ANSYS HFSS	BIT Sindri	2020
Dr. M.G.Tiary	Professional Development Training	IIM Visakhapatnam	2020
Dr. M.G.Tiary	Professional Development Training	IIM Trichi	2021
Dr. M.G.Tiary	Workshop on Examination Reforms	AICTE	2021
Dr. M.G.Tiary	Workshop on Plan for Promoting Jharkhand as Cyber Defense Corridor of the world	JUT Ranchi	2022
Dr. Imteyaz Ahmad	Digital Transformation in Teaching Learning Process	IIT Bombay BIT Sindri	2020
Dr. Imteyaz Ahmad	Workshop on Design and Analysis of Microwave Systems using ANSYS HFSS	BIT Sindri	2020
Dr. Amar P Sinha	Digital Transformation in Teaching Learning Process	TEQIP, SWAYAM	2020
Dr. Amar P Sinha	ATAL FDP on "Internet of Things"	AICTE TEQIP BIT SINDRI	2020
Dr. Amar P Sinha	Design and Analysis of Microwave Systems using ANSYS HFSS	TEQIP BIT SINDRI	2020
Dr. Amar P Sinha	ATAL FDP on "Cloud Technology"	AICTE TEQIP BIT SINDRI	2020

Faculty Name	Title/ Topic of Event	Organized By	Year
Dr. Amar P Sinha	ATAL FDP on 'Quantum Computing'	AICTE TEQIP BIT SINDRI	2021
Mr. Jagveer Singh Verma	FDP on Research Methods	IIM Bodh Gaya	2021
Mr. Jagveer Singh Verma	Materials & Manufacturing: Insights to Modern Technologies	BIT Sindri	2020
Dr. Praveen Kumar Sahu	<ul style="list-style-type: none"> Attended STTP on "Induction Phase - I 	NITTTR, Bhopal	2020
Dr. Praveen Kumar Sahu	<ul style="list-style-type: none"> Attended STTP on "Induction Phase - II 	NITTTR, Bhopal	2020
Dr. Prashant Kr Singh	Two-week Virtual Short term course on "Research Trends in Electronics and Communication Engineering	UCET, Hazaribagl	2021
Dr. Prashant Kr Singh	Two-days webinar on "Image Processing using MATLAB	UCET, Hazaribag	2020
Dr. Prashant Kr Singh	One week workshop on "Research Trends in Microwave Devices and Antennas	UCET, Hazaribag	2020
Dr. Prashant Kr Singh	Training on "Forensic Engineering & Instrumentation"	Central Forensic Science Laboratory, Kamrup, Assam	2022
Dr. Prashant Kr Singh	Professional Development Training Programme (Virtual Mode) for TEQIP Institutions	IIM, Kozhikode	2020

CLASSROOMS

The least of the work of learning is done in the classroom. As it is rightly said “Every great journey begins in a classroom”, the classrooms of our department have also witnessed a great deal of successful beginnings. From the days when blackboard and long desks were used in a classroom till today when smart and digital learning is on its peak our classrooms have changed themselves with changing time. With the changing technologies our classrooms are now well furnished with standard desks, white board, green boards, projectors, smart boards and LED screens and Digital Podium. These classrooms provide a great environment of learning with almost all the technologies required by a student to understand things better.



LABORATORIES

“Without laboratories, people of Science are Soldiers without arms.”

Different laboratories under the Electronics and Communication Engineering Department are as follows:

01 Basic Electronics Lab

08 Optical Fiber Comm. Lab

02 Analog Electronics Lab

09 Digital Communication Lab

03 Analog Communication Lab

10 VLSI Lab

04 Digital Electronics Lab

11 Antenna Design Lab

05 Digital Signal Processing Lab

12 Internet of Things (IOT) Lab

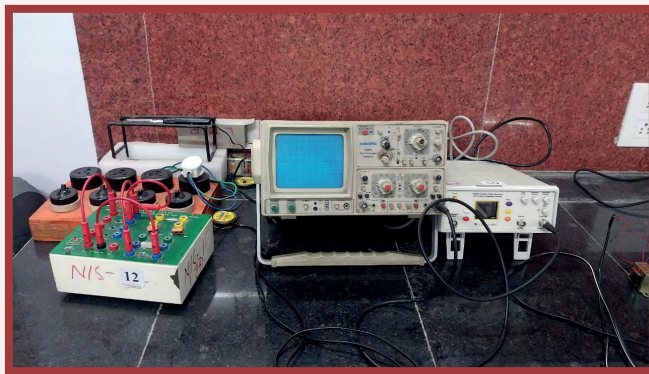
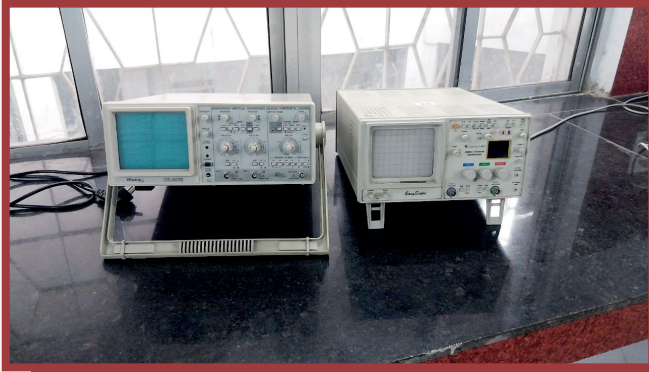
06 Microwave Engineering Lab

13 CEDT/Project Lab

07 Basic Electronics Lab

14 Simulation Lab

GLIMPSES OF LABORATORIES



STUDENT'S CONTRIBUTION & ACHIEVEMENTS

◆ INTERNSHIPS

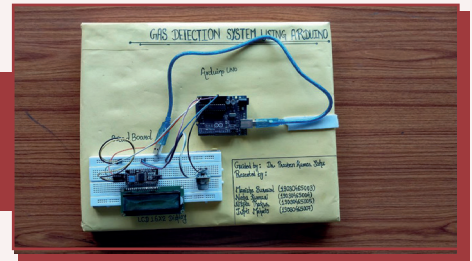
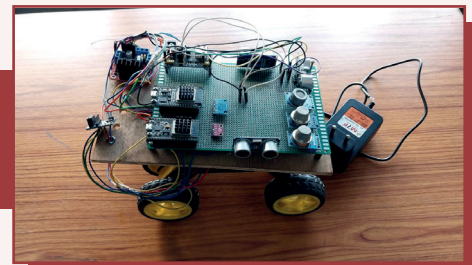
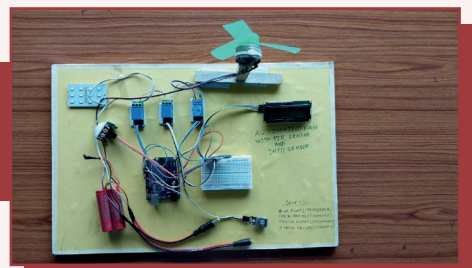
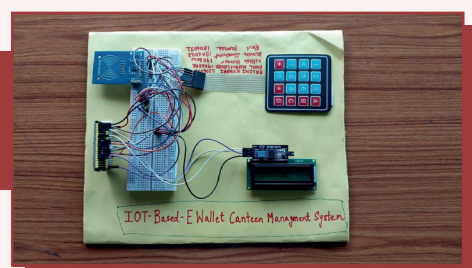
An internship is the best way to gain work experience as a student. Internships gives students the valuable practical experience needed along with theoretical knowledge.

Name of the Student	Roll No	Name of the Company	Duration
Ritesh Kumar	2006041	Signimus Technologies	4 Weeks
Ritesh Kumar	2006041	Cerebro Kids	4 Weeks
Ritesh Kumar	2006041	Milo Doctors	4 Weeks
Jasmine Christina Kachhap	2006028	Banao Technologies	26 Weeks
Aman Kumar	2006009	SHAPEAI	26 Weeks
Binod Munda	2006021	Coding Ninja	26 Weeks
Binod Munda	2006021	The Sparks foundation	4 Weeks
MANISHA KUMARI	2006033	Udany edutech private limited	26 Weeks
Vijay Lowad	2006056	TATA STEEL	8 Weeks
SUBHAM SWARUP	2006050	THE SPARKS FOUNDATION	4 Weeks
Kheya Rani Das	2106023	Pirsquare digital solutions	26 Weeks
Aayushi Singh	2206001D	MastersBuddy	8 Weeks
Aayushi Singh	2206001D	Muskurahat Foundation	8 Weeks
Aniket Sinha	2106007	Oasis infotech	4 Weeks
Pawan Kumar	2106031	Feynn Labs	8 Weeks
Neelaabh Sinha	2106028	IIT(ISM) Dhanbad	4 Weeks

STUDENT'S CONTRIBUTION & ACHIEVEMENTS

◆ BEST PROJECTS

Projects are all about applying the technical knowledge in shaping a real-life project. Developing a project not only enhances team management and communication skill but also improves time management of an individual. It helps to learn professionalism, mannerism, and code of conduct of a company to land in the dream jobs. It is about choosing out project on the mastered skill and giving the best efforts there. Here are some of the best projects by students of ECE department:

01**GAS Detection System using ARDUINO****02****Environment Sensing and Monitoring Explorer BOT Using ESP32****03****Automatic Fan with PIR sensor and DHT11 sensor****04****IOT Based E-Wallet canteen management system**

STUDENT'S CONTRIBUTION & ACHIEVEMENTS

◆ GATE SCORE

GATE, Graduate Aptitude Test in Engineering is a national level exam that primarily tests the comprehensive understanding of various undergraduate subjects in engineering. Its score is used to seek admission to Master's and Doctoral programs. Furthermore, many Public Sector Undertakings (PSUs) have been using the GATE score in their recruitment process. Our students of ECE department are also not behind to leave their footprints by scoring great in the GATE Exam.

NAME OF THE STUDENT	REG. NO	AIR	GATE SCORE
KUMARI TANNU PRIYA	19030460049	403	687
HARSH TIWARI	19030460016	547	662
RITWIK ANAND	19030460032	3751	442
RAJA BABU	19030460027	4068	430
PRAYANSHU SINGH	19030460026	5411	384
SHUBHADA MANDAVI	19030460042	10743	277
ADARSH ANAND	20030460003	7806	326
AMAN KUMAR	20030460008	4879	401
ANAND KUMAR	20030460010	13449	243
ARYAN KUMAR	20030460017	4068	430
MD FAIZAN YUSUF	20030460035	11072	272

STUDENT'S CONTRIBUTION & ACHIEVEMENTS

◆ PLACEMENT RECORDS

SL. NO.	NAME OF THE STUDENT	ROLL NO	NAME OF THE COMPANY
Batch - 2018-22			
01	SACHIN KUMAR SINHA	1806040	YAMAHA MOTORS
02	ADITAYA BURNWAL	1806008	SIFY TECHNOLOGIES
03	ANNU KUMARI	1806010	SIFY TECHNOLOGIES
04	KUMAR ANUPAM	1906004D	SIFY TECHNOLOGIES
05	DIVYANSHU RAJ	1806015	SIFY TECHNOLOGIES
06	SATYA PRAKASH	1806043	SIFY TECHNOLOGIES
07	RINA KUMARI	1806037	SIFY TECHNOLOGIES
08	FARID RAZA	1906008D	SIFY TECHNOLOGIES
09	GOVIND KUMAR YADAV	1806017	SIFY TECHNOLOGIES
10	ADARSH KUMAR SINHA	1806007	TCS DIGITAL
11	ANNU KUMARI	1806010	TCS DIGITAL
12	ABHISHEK PANDEY	1806004	TCS NINJA
13	ADITYA BURNWAL	1806008	TCS NINJA
14	DEVANSHU RAJ	1806014	TCS NINJA
15	SHAILESH ANAND	1806053	KANTAR ANALYTICS
16	PRIYANSHU MISHRA	1806035	DELOITTE USI
17	SHASWAT ANAND	1806044	DELOITTE USI
18	ADITI VIDUSHI	1806054	TATA STEEL
19	SHAILESH ANAND	1806053	GOOGLE
20	VISHAL RAJAK	1806052	TCS DIGITAL
21	ANUSHKA PRASAD	1806055	TCS NINJA
22	HARSH SINHA	1806018	TCS NINJA
23	MD RAGHIB AHMAD	1806024	TCS NINJA

◆ **PLACEMENT RECORS**

SL. NO.	NAME OF THE STUDENT	ROLL NO	NAME OF THE COMPANY
24	RASHI GOYAL	1906011D	TCS NINJA
25	SATYA KUMARI	1806042	TCS NINJA
26	SHITAL SAKSHI	1806046	TCS NINJA
27	SUBHABRATA ROY	1806056	TCS NINJA
28	SURAJ ORAON	1806050	TCS NINJA
29	SUSHMITA MANDAL	1906007D	TCS NINJA
30	AJAY KR. RAJAK	1806009	CHANDRAYAAN – A SCIENCE RANKER
31	NANDANI KUMARI	1806025	LEARNING ROUTES
32	ANSHU KUMARI	1806012	TREDENCE ANALYTICS
33	ABHINAV PRAKASH	1806002	TREDENCE ANALYTICS
34	DEVANSHU RAJ	1806014	AMAZON
35	AAMIR ALAM	1806001	WIPRO LIMITED
36	ABHINAV PRAKASH	1806002	WIPRO LIMITED
37	ABHISHEK KUMAR	1806003	WIPRO LIMITED
38	ANSHAY ADHAYAYN	1806012	WIPRO LIMITED
39	ANSHU KUMARI	2006041	WIPRO LIMITED
40	SUBHABRATA ROY	1806056	WIPRO LIMITED
41	SATYA KUMARI	1806042	TECH MAHINDRA
42	ANSHAY ADHAYAYN	1806011	TECH MAHINDRA
43	SUBHARATA ROY	1806056	TECH MAHINDRA
44	NIKHIL KUMAR	1806027	DEEVIA SOFTWARE
45	ANSHU KUMARI	1806012	TATA STEEL
46	SUSHMITA MANDAL	1906007D	RINEX TECHNOLOGIES
47	ADITAYA BURNWAL	1806008	SAMSUNG
48	KRISHNA MODI	1806021	HEXAWARE TECHNOLOGIES
49	ROHIT KUMAR	1806039	HEXAWARE TECHNOLOGIES
50	POOJA KUMARI	1806030	COGNIZANT (GENC NEXT)
51	RAMGOPAL HEMBRAM	1806036	COGNIZANT (GENC ELEVATE)
52	SHIKHA RANI	1806045	COGNIZANT

◆ **PLACEMENT RECORDS**

SL. NO.	NAME OF THE STUDENT	ROLL NO	NAME OF THE COMPANY
53	ADARSH KUMAR SINHA	1806007	SAMSUNG
54	ANSHAY ADHAYAYN	1806011	SAMSUNG
55	ABHISHEK PANDEY	1806004	EDELWEISS GIC
56	ABHISHEK SOREN	1806006	ERICSSON
57	SANDEEPA TOPPO	1806041	ERICSSON
58	ABHISHEK RANJAN	1806005	HOLCIM GROUP-ACC & AMBUJA
59	RINA KUMARI	1806037	HOLCIM GROUP-ACC & AMBUJA
60	CHAHAT RAJ	1806013	HOLCIM GROUP-ACC & AMBUJA
61	FARID RAZA	1906008D	HOLCIM GROUP-ACC & AMBUJA
62	SHITAL SHAKSHI	1806046	HOLCIM GROUP-ACC & AMBUJA
63	RASHI GOYAL	1906011D	HOLCIM GROUP-ACC & AMBUJA
64	GAURAV KUMAR	1806016	SCHNEIDER ELECTRIC
65	SATYA KUMARI	1806042	INFOR
66	HARSH SINHA	1806018	INFOR
67	SHIKHA RANI	1806045	ADANI ENTERPRISES
68	DIVYANSHU RAJ	1806015	ADANI ENTERPRISES
69	ANUSHKA PRASAD	1806055	SCHLUMBERGER
70	ANNU KUMARI	1806010	SCHLUMBERGER
71	SUDHA TUDDU	1806049	TATA POWER
72	JAGRITI KUMARI	1806019	QSPIDERS
73	CHAHAT RAJ	1806013	SAMSUNG
74	POOJA KUMARI	1806030	SAMSUNG
75	ADARSH KUMAR SINHA	1806007	INFOSYS
Batch - 2019-23			
01	DIVYA SHARMA	1906015	TATA STEEL LTD.
02	SANGITA MURMU	1906041	TATA STEEL LTD.
03	SHUBHADA MANDAVI	1906046	TATA STEEL LTD.
04	SHUBHADA MANDAVI	1906046	TATA STEEL LTD.
05	HARSH TIWARI	1906018	AAKASH BYJU'S

◆ **PLACEMENT RECORS**

SL. NO.	NAME OF THE STUDENT	ROLL NO	NAME OF THE COMPANY
06	CHANDAN KUMAR GUPTA	1906058	AAKASH BYJU'S
07	AVINASH KUMAR	1906011	AIR INDIA
08	SHASHWAT TIWARI	1906044	AIR INDIA
09	RAVI KUMAR	1906056	AIR INDIA
10	NIKITA THAKUR	2006007D	AIR INDIA
11	AJAY MANJHI	1906001	CAPGEMINI
12	AMRITANSHU SATYAM	1906003	CAPGEMINI
13	ANJALI BAXLA	1906006	CAPGEMINI
14	GAURAV KUMAR	1906016	CAPGEMINI
15	KHUSHI GROVER	1906022	CAPGEMINI
16	NITISH KUMAR	1906026	CAPGEMINI
17	PRAYANSHU SINGH	1906029	CAPGEMINI
18	RAVI RAUTU BODRA	1906033	CAPGEMINI
19	SATYAM	1906043	CAPGEMINI
20	ZEESHAN ASHRAF	1906051	CAPGEMINI
21	AMOL ANSHUMAN	1906054	CAPGEMINI
22	JWALA CHANDRA PANDEY	1906057	CAPGEMINI
23	UPENDRA PRASAD MAHTO	1906061	CAPGEMINI
24	TRIPTI MAHATO	2006008D	CAPGEMINI
25	RISHAV KUMAR	1906034	DEEVIA SOFTWARE
26	ANAND KUMAR	1906004	EXAVALU
27	RAJA BABU	1906030	EXAVALU
28	SAGAR RAJ	1906062	EXAVALU
29	HIMANSHU JAISWAL	1906019	GLOBALLOGIC HITACHI
30	ANKIT KUMAR GUPTA	1906060	HCL
31	NEERAJ KUMAR	1906055	JAI BALAJEE
32	JOY MARANDI	2006004D	JAI BALAJEE
33	SHUBHAM SINGH	1906047	JSW STEELS
34	TANIYA KUMARI	1906049	JSW STEELS

◆ PLACEMENT RECORDS

SL. NO.	NAME OF THE STUDENT	ROLL NO	NAME OF THE COMPANY
35	VINAY PRAKASH	1906050	JSW STEELS
36	NEHA KUMARI	2006006D	L&T
37	ZISHAN AHMAD	1906052	NARAYANA
38	PRABHAT GUPTA	1906059	NARAYANA
39	NUSRAT PRAVIN	1906027	Q SPIDER
40	PRATIMA KUMARI	1906028	Q SPIDER
41	SALONI KUMARI	1906038	Q SPIDER
42	SHRUTI ANSHUMALI	1906045	Q SPIDER
43	SAPNA KUMARI	1906042	SLB PITC
44	ANISHA MURMU	1906005	TCS - NINJA
45	KUMAR SHASHWAT	1906023	TCS - NINJA
46	KUMARI MAHIGRA BEDIA	1906024	TCS - NINJA
47	RAVI KUMAR	1906032	TCS - NINJA
48	SALONI KUMARI	1906037	TCS - NINJA
49	SWATI RAJ	1906048	TCS - NINJA
50	MANISHA BURNWAL	2006001D	TCS - NINJA
51	SANA NOWSHAD	1906039	YAMAHA MOTORS



CLUBS & SOCIETIES

- Students of ECE Dept. are actively involved in following clubs of the Institute.

CULTURAL CLUBS & SOCIETIES

- ◆ **PRAYAAS INDIA** is a Non-Governmental Organization providing free and high-quality education to underprivileged children living in slums and villages near college campus. The whole management of the organization is handled by college students. Presently more than 800 children are getting free education. Apart from two-hours evening classes, meritorious of them are admitted in good private schools for formal education. Prayaas is a charitable organization in the service of underprivileged and poor children.
- ◆ **ARTS CLUB** is one of the oldest Students Cultural Society at BIT Sindri. It has a long rich tradition of Art and Culture. It provides a platform to Bitians to exhibit their hidden talents. Arts Club is quite popular in BIT due to its popular stage shows and cultural programs. It not only helps in preserving our rich art and cultural heritage, but entertains BIT during the hard and busy academic life.
- ◆ **ECO CLUB** ECO Club is an environment-cum- socio-cultural club of BIT Sindri established in the year 1992. This club works towards the upliftment of the environment and poor section of society. ECO Club runs plantation and cleanliness drives in BIT Sindri. We are known for hosting mega annual events like Vidur Utsav, ECO Enthusia, etc. We encourage afforestation by organising events like Van Mahotsav and Smriti Taru. ECO club works to increase awareness of the environment.
- ◆ **GRS** Gandhi Rachnatmak Samiti is a socio cum cultural club functional in Birsa Institute of Technology, Sindri. Its motto is "No call is greater than public service." GRS facilitates students with different opportunities to develop their communication and social skills by participating in various events and activities. It was established in 1969 and is one of the oldest and most prestigious clubs of BIT Sindri.
- ◆ **LEO CLUB** LEOs are results-oriented individuals with extensive leadership experience in highly competitive environments. We utilize and create opportunities for personal, professional, and institutional growth. Our success depends on a spirit of deep collaboration and a talented community of diverse individuals determined to make the most out of an opportunity to develop leadership skills by gaining hands-on experience from conducting social and cultural events.
- ◆ **LITERARY SOCIETY** Literary Society is the literature-cum-cultural club of the college that serves as a forum for students to communicate their opinions, ideas, and new perspectives. The club intends to help students enhance their speaking and listening abilities and leadership skills that aid in personality development. The Literary Society organizes events regularly to promote awareness about diverse cultures and social concerns and challenges students to extend their limits.

- ◆ **PAINTING WINGS** Painting Wing is one of BIT Sindri's well-known clubs. Each year, we try to create a vibrant and colorful atmosphere on campus through our unique and immersive activities. We make life at BIT Sindri more colorful, fun, and fascinating by organizing events such as street painting, wall painting, Rangoli making, caricature, clay modeling, body painting, oil painting, and so on.
- ◆ **SPORTS CLUB** The Sports Club of BIT Sindri, established in 1960, is a prestigious club. Currently, it is under the guidance of Professor R.K. Verma, the Professor In-charge of the Sports Club. Our main events are SPARDHA and PRATIDWANDA. We also organise Inter-branch tournaments for both girls and boys.

TECHNICAL CLUBS

- ◆ **HnCC** Hackathon and Coding Club is the official coding and development club of BIT Sindri. Being the most prestigious technical club of our institution, we provide a gateway that allows students to gain assistance and mentorship to enhance their coding, design, and creative ability. We have conducted and administered many events with Dinesh Kumar Prabhakar Sir as our Professor-in-charge. We have done it all, from hackathons and monthly happenings like BitCode and Linux drive to informative sessions. HnCC looks forward to organizing more engaging and thrilling events in the future.
- ◆ **IETE** Students' Forum is a techno-management club established in the year 2007. The club aims to empower the youth through technical education and skill development. We conduct many webinars, seminars, and competitions based on web development, competitive programming, and other technical domains. Some significant events conducted by the club are Hacklane, Udyamita, Explicar, Inquiztive, Encipher, Insight, Byte the Bits, and Tech expo. We organize Tech Udbhav, our Annual Techno-Management Fest.
- ◆ **ISTE** Students' Chapter BIT Sindri is a nationally affiliated techno-management society registered with ISTE New Delhi. With the motto of holistic development, ISTE Students' Chapter focuses on the personality development and enhancement of technical and managerial skills of its members to meet the modern competitive era.
- ◆ **MODEL CLUB** is the official techno-management club established by the BIT administration in the early 60s to hone the scientific mindset and exemplify the technical prowess of the institute. The organization is inherently associated with the diffusion of science and technology in would-be technocrats. Concentrated solely on the BIT Sindri campus, Model Club strives to sync the college with the latest technological trends through Tech-Events, Workshops, Seminars, and Talk-shows.

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