

**BIT SINDRI, DHANBAD,
GOVERNMENT OF JHARKHAND**

Department of Higher, Technical Education & Skill Development



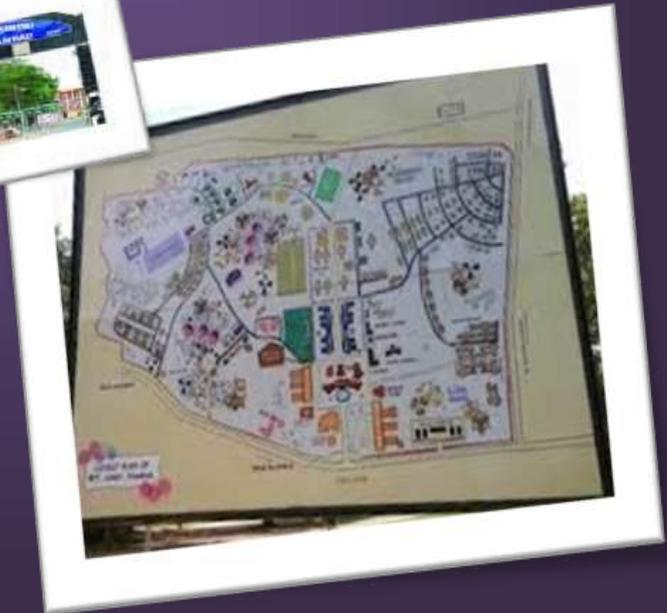
**ANNUAL REPORT
2019-20**



*Shri Hemant Soren
Hon'ble Chief Minister
Jharkhand, India*



*Smt. Draupadi Murmu
Hon'ble Governor
Jharkhand, India*



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Director's Message

Welcome to BIT Sindri. It gives me great pride and satisfaction to write about BIT which has served as nation's flagship institute of technical education for more than six decades now. We are proud to be preparing the dynamic leaders, people who can make a difference and a pool of intellectuals who can contribute to the workforce of tomorrow. Endowed with a magnificent campus, excellent management, well qualified faculties and good academic ambience, the college continues to strive to be a top-ranking engineering college in the country.

A well-designed curriculum, numerous technical workshops and conferences and a disciplined student community distinguishes BIT as a centre for quality education.

In the changing times of globalization and technological transformation, addressing the challenges of a better world is the need of the hour. As an academic institute, we understand the responsibilities of ensuring the reach of value-based education to each & every of its students and to nurture their juvenile minds to fit in today's world through their talent and knowledge.

Our faculties are renowned scholars and research practitioners who are actively involved in academic excellence and innovative research ideas. Our students have managed to be a part of the reputed government, public and private units in their own capacities. To enhance industry-related education model, we have taken firm steps to organise industrial tours and training programmes to help our students develop these skills and visions. In addition, we have also started conducting induction programmes, as per the rules of AICTE, for the first year students to make them aware of the institutional setup and policies and improve their learning process.

To channelize the abundant potential of the pupils, we have numerous institute level clubs in wide areas ranging from technology, art, music, dance, meditation, sports, environment etc. thus enhancing their managerial skills and mould them into team players.

I would also like to take this opportunity to thank our alumni who have played a major role in shaping the institute over the years. This cooperation and help through monetary benefits to the institute has helped in supporting faculty- research, attracting reputed recruiters, establishing student's scholarships and improving institution ranking globally. Without these gifts, it would have been difficult to maintain the exceptional level of educational & quality research that exists today.

As a director, I feel fortunate to work for one of India's oldest, largest & most comprehensive educational institute. It gives me immense pleasure to announce that BIT Sindri is on a fascinating path of growth & development and will soon stand among the finest technical institute of not just India but the world. With this thought in mind, I wish you a wonderful life ahead & a thank you for visiting us.

Hope to be connected always!

(D.K. Singh)



Institute's basic information

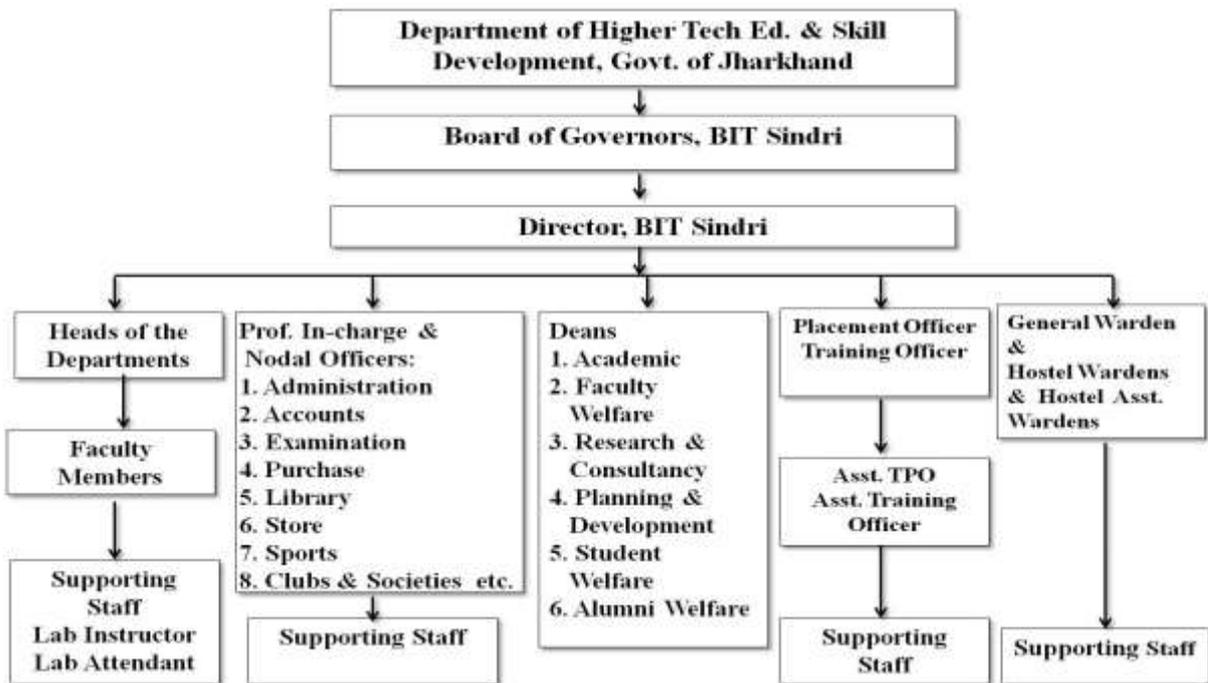
BIT Sindri, a Technical Educational institute was established in the for-state Bihar as “College of Mechanical and Electrical Engineering” in the year 1949 as at Patna. On November 17, 1950 the institute was shifted to Sindri, near Dhanbad and renamed as “Bihar Institute of Technology” affiliated to “Ranchi University”. BIT Sindri was established with a Principal, three Professors and sixty Students in a simple ceremony with a cup of tea on the dining table. The institute grew and flourished rapidly during the early days under the dynamic leadership of Prof. D.L. Deshpande, Director of Institute during 1950-61, who is regarded as the architect of the institute.

BIT Sindri, erstwhile known as Bihar Institute of Technology, Sindri and affiliated to Ranchi University, became the affiliated engineering college of Vinoba Bhave University, Hazaribag after the bifurcation of state.

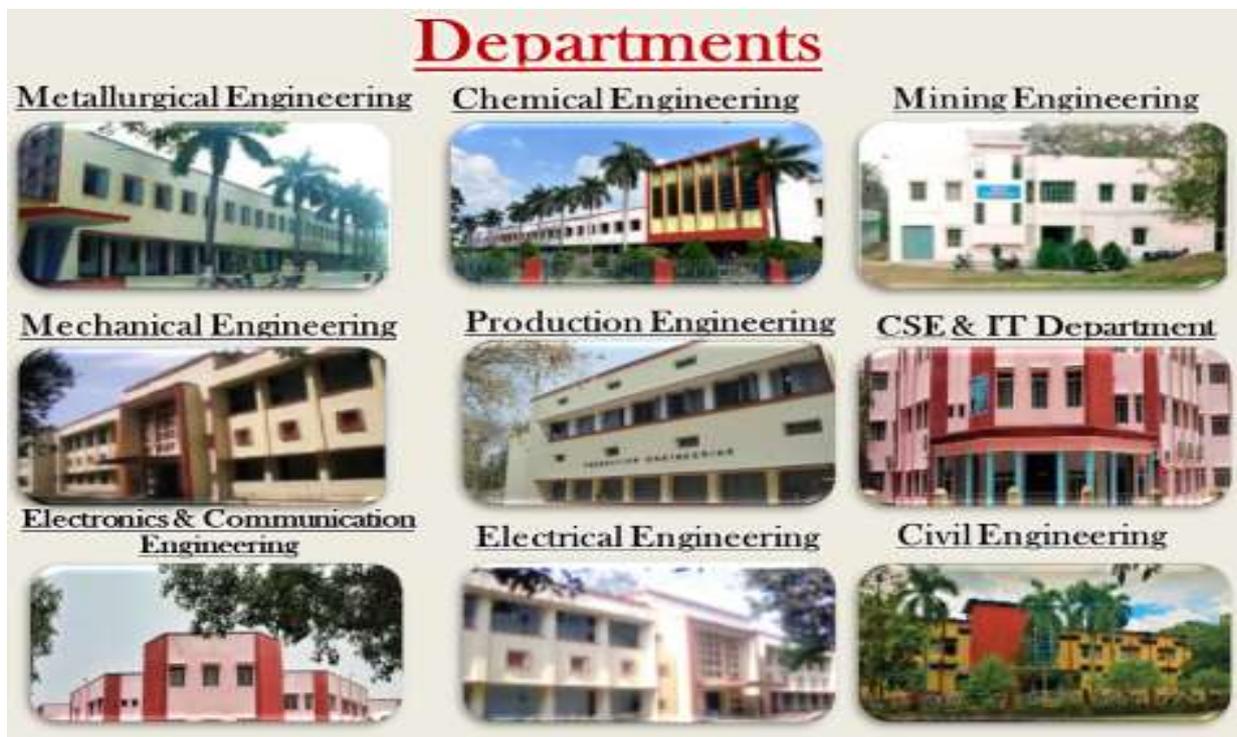
The institute is located at a distance of 28 KM from Dhanbad railway station linked by rail as well as road. It has a sprawling campus of about 400 Acres of land near the eastern bank of river Damodar. There are 25 hostels in the campus, separate hostels for boys and girls, catering the residential requirements of around 3000 undergraduates, postgraduates and researchers. The institute is fully residential for students as well as teaching and non-teaching staff.

The institute is controlled administratively by the Department of Science and Technology, Govt. of Jharkhand, Ranchi and academically it was affiliated to Vinoba Bhave University, Hazaribagh for conducting examinations and awarding degrees, which has now been changed to Jharkhand University of Technology, Ranchi from the batch 2018-22 onwards. All courses are approved by All India Council of Technical Education and most of the undergraduate programs are accredited by the National Board of Accreditation, New Delhi.

Organisation structure



Hierarchical set up of BIT Sindri





Institute Vision Mission

Vision

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

Mission

1

To offer state-of-the-art Undergraduate, Post graduate and Doctoral programs.

2

To generate the new knowledge by quality research.

3

To understand collaborative projects with industries and society.

4

To develop human intellectual capacity with its full potential.

5

To solve the problems of society through innovation in technology.

BOG Members

Prof. K.P. Singh (Chairman)
Ex. Director, IIT(BHU), Varanasi & Former Vice-Chancellor, VBS, Purvanchal University,
Jaunpur, Uttar Pradesh.



Prof. B.S. Sahay (Member)
Director, IIM Jammu & Former Director, IIM Raipur



Mr. Rajeev Kumar (Member)
Vice President, Operation, Tata Steel, Kalinga Nagar, Orissa



Mr. Kamalnath (Member)
CEO, Sify Technology Ltd. New Delhi



Mr. Balkrishna Baranwal (Member)
Ex. Vertical Head, Indian Business Operation, TCS Mumbai



Mrs. Kumud Sharma (Member)
CEO, Superseva Services PVT. Ltd; Bangalore



Dr. B.L. Rama (AICTE Nominee)
Director, AICTE, New Delhi (Ex-officio)



Mr. Raman Srivastava (An Industrialist / Technologist / Educationist)
Ex-Director, Technical, SAIL, New Delhi



Prof. Paramanand Mahto (Nominee of the affiliating body / University)
Ex-Registrar, VBU, Hazaribagh & Ex-Director, MCA, VBU, Hazaribag



Prof. Arun Kumar (Nominee of the State Govt.)
Director (Technical Education), Govt. of Jharkhand, (DTE Ex-officio)



Prof. Vishnu Priye (An Industrialist / Technologist / Educationalist from the region)
Director, IIIT Ranchi, Former Dean (R&D), IIT (ISM) Dhanbad



Prof. D.K. Singh (Member Secretary)
Director, B.I.T. Sindri



Prof. U.K. Dey (Faculty Member)
Prof. & Head, Dept. of Mining Engg, BIT Sindri



Mr. A.G.P. Kujur (Faculty Member)
Asst. Prof. Dept. of Computer Science & Engg., BIT Sindri

ADMINISTRATION UNIT**DEANS****Dr. Upendra Prasad**

- Dean Academic
- Professor, Electrical Engineering
- dean.ac@bitsindri.ac.in, uprasad@bitsindri.ac.in
- Mobile: +91-9430771335, +91 7979892998

**Dr. G. Kumar**

- Dean Faculty Affairs
- Professor, Geology
- dean.fa@bitsindri.ac.in, gkumar@bitsindri.ac.in
- Mobile: +91 9431123438

**Dr. U.K. Dey**

- Dean Research and Consultancy
- Head & Professor, Mining Engineering
- dean.rc@bitsindri.ac.in, dr_ukdey@yahoo.com
- Mobile: +91 7779931889

**Dr. Pankaj Rai**

- Dean Students Welfare
- Professor, Electrical Engineering
- dean.dsw@bitsindri.ac.in, prai.ee@bitsindri.ac.in
- Mobile: +91 9430103417

**Dr. Vikrama Pandey**

- Dean Planning and Development
- Professor & Head, Civil Engineering
- dean.pd@bitsindri.ac.in, v.pandey7922@gmail.com
- Mobile: +91 9431541765

**Dr. Ghanshyam**

- Dean Alumni Affairs
- Professor, Physics
- dean.aa@bitsindri.ac.in, ghanshyam.phy@bitsindri.ac.in
- Mobile: +91 9431094733

**List of Office Bearers:**

Office	Office Bearer		Email Id/Mobile No.
Senior Administrative Officer	Prof. M.G. Tiary		sao@bitsindri.ac.in Mobile: +91 9475332733
Administrative Officer	Dr. R P Gupta		ramjee_gupta@yahoo.com Mobile: +91 9523777443
Chairman, Industries Institute Interaction Cell	Dr. Abul Kalam		kalam.ee@bitsindri.ac.in Mobile: +91 9958281028
Prof.-in-Charge Academic PG, Continuing Education Cell	Prof. G. Kumar		drgkumar12@gmail.com gkumar@bitsindri.ac.in Mobile: +91 9431123438
Prof.-in-Charge, Academics (UG)	Dr. Arvind kumar Dr. J. N. Mahtho		aksingh738@gmail.com arvindkr@bitsindri.ac.in jnmahto.me@bitsindri.ac.in Mobile: +91 9110986849 +91 9430154294
Prof.-in-Charge, Academics (PG & Research)	Prof. Vijay Pandey		vpandeybit@gmail.com Mobile: +91 9631658233
General Warden	Prof. Pankaj Rai		pr_bit2001@yahoo.com prai@bitsindri.ac.in Mobile: +91 9430103417
Prof.-in-Charge, Central Library	Prof. Pankaj Rai		pr_bit2001@yahoo.com prai@bitsindri.ac.in Mobile: +91 9430103417
Public Information officer & Prof. Incharge Court Cases	Prof. P. K. Singh		singhpromodkumar@gmail.com Mobile: +91 8987711746
Prof.-in-Charge Data Center/ Server Networking/ Examination	Dr. S C Dutta Dr. Arvind Kumar Dr. R K Nayak		dutta_subhash@yahoo.com arvindkr@bitsindri.ac.in rknayak@bitsindri.ac.in Mobile: +91 9431379679 +91 9110986849 +91 9939709574
Prof.-in-Charge, Electric Substation	Mr. Rakesh Rohan		rakeshrohan.ee@bitsindri.ac.in Mobile: +91 7209750913
Accounts Officer	Mr. Rajendra Murmu		murmubit@gmail.com Mobile: +91 9934536994



<i>Stores Officer</i>	<i>Prof. S.P. Mishra</i>		<i>sanjaypmishra123@gmail.com spmishra@bitsindri.ac.in Mobile: +91 9431169666</i>
<i>Purchase Officer</i>	<i>Dr. Manoj Kumar</i>		<i>Mobile: +91 9431506944</i>
<i>Training and Placement Officer</i>	<i>Prof. Ghanshyam</i>		<i>ghanshyam@bitsindri.ac.in Mobile: +91 7870023825</i>
<i>Prof.-in-Charge, Canteen</i>	<i>Prof. P.K. Sharma</i>		<i>sharma.prafulla123@gmail.com Mobile: +91 9431724607</i>
<i>Women grievance cell</i>	<i>Ms. Rekha Jha</i>		<i>rjha.ee@bitsindri.ac.in Mobile: +91 9334475980</i>
<i>Prof.-in-charge, Examination dept</i>	<i>Prof Vijay Pandey</i>		<i>vpandeybit@gmail.com Mobile: +91 9431596535</i>
<i>Asst Prof.-in-charge Examination</i>	<i>Mr. Shashi Minhz Dr. S Hembrom Mr. Sachin Agarwal</i>		<i>sminz.ee@bitsindri.ac.in shembrom@bitsindri.ac.in Mobile: +91 6203782614 +91 7004693958</i>
TEQIP-III Officials			
<i>Principal Coordinator</i>	<i>Prof. Upendra Prasad</i>		<i>upendra_bit@yahoo.co.in Mobile: +91 7979892998</i>
<i>Co-Project Coordinator</i>	<i>Prof. Sanjay Kumar Singh</i>		<i>sks2102@gmail.com Mobile: +91 7070654809</i>
<i>Nodal officer Finance</i>	<i>Mr. Rajendra Murmu</i>		<i>murmubit@gmail.com Mobile: +91 9934536994</i>
<i>Asst. Project Coordinator</i>	<i>Dr R. P. Gupta</i>		<i>rpguptabit@gmail.com Mobile: +91 8340432424</i>
<i>Nodal officer</i>	<i>Dr. A. P. Sinha</i>		<i>apsinha@bitsindri.ac.in Mobile: +91 8969008680</i>
<i>Prof.-in-charge Purchase and procurement</i>	<i>Dr. Abul Kalam</i>		<i>kalam.ee@bitsindri.ac.in Mobile: +91 9958281028</i>

**Head of the Departments:**

<i>Sl.</i>	<i>Name</i>	<i>Designation</i>	<i>Date of Joining</i>
<i>Mechanical Engineering Department</i>			
01	Dr. Sanjay Kumar Singh	Professor & Head	07.09.2006
<i>Civil Engineering Department</i>			
02	Dr. Vikarma Pandey	Professor & Head	03.09.1984
<i>Electrical Engineering Department</i>			
03	Dr. D.K. Tanti	Professor & Head	26.02.1993
<i>Production Engineering Department</i>			
04	Dr. Prakash Kumar	Professor & Head	14.07.2000
<i>Metallurgical Engineering Department</i>			
05	Dr. A.K. Rajak	Associate Professor & Head	24.05.2000
<i>Chemical Engineering Department</i>			
06	Dr. Amit Kumar Gupta	Associate Professor & Head	12.09.2006
<i>Electronics and Communication Engineering</i>			
07	Dr. Imtyaz Ahmad	Asso. Professor & Head	07.09.2006
<i>Mining Engineering Department</i>			
08	Dr. U.K. Dey	Professor & Head	14.10.1985
<i>Computer Science and Engineering & Information Technology</i>			
09	Dr. F. Ansari	Professor	18.05.1993
<i>Physics Department</i>			
10	Dr. R.K. Verma	Professor & Head	27-07-2000
<i>Mathematics Department</i>			
11	Dr. Sanat Kumar Pandey	Professor & Head	29.10.1999
<i>Chemistry Department</i>			
12	Dr. Ranjeet Kumar Singh	Professor & Head	20.03.2013
<i>Geology Department</i>			
13	Dr. Promod Kumar Singh	Professor & Head	30.08.1997
<i>Humanities Department</i>			
14	Dr. Arvind Kumar	Professor & Head	17.10.1994

**Faculty Information:****Faculty Strength**

Sl.	Branch	Total sanction post 256	Filled up Post	Professor		Associate Professor		Assistant Professor		Part Time Lecture
				Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled	
01	Mechanical	52	26	08	04	17	02	27	18	02
02	Electrical	40	27	06	04	12	02	22	21	00
03	Metallurgical	19	11	03	01	07	02	09	05	03
04	Production	13	09	02	02	03	00	08	06	01
05	Civil	29	18	05	04	10	07	14	07	00
06	Chemical	22	14	03	00	07	01	12	12	01
07	Electronics & Communication	18	11	02	01	04	02	12	08	00
08	Mining	10	10	01	01	02	00	07	09	00
09	Computer Science	09	08	01	00	02	00	06	08	00
10	Information Technology	09	10	01	00	02	00	06	10	00
11	Mathematics	12	07	01	02	02	00	09	03	02
12	Physics	05	05	01	03	01	01	03	01	00
13	Chemistry	07	06	01	02	01	01	05	01	02
14	Humanities	04	04	01	01	01	00	02	01	02
15	Geology	04	04	00	02	01	00	03	02	00
16	M.B.A.	03	00	00	00	00	00	03	00	00
	Total	256	170	36	27	72	18	148	112	13

List of all faculty members

Sl.	Name	Designation	Date of Joining
Mechanical Engineering Department			
01	Dr. S.C. Roy	Professor	17.01.1983
02	Dr. Sanjay Kumar Singh	Professor & Head	07.09.2006
03	Dr. Monoj Kumar	Professor	19.09.2006
04	Dr. Vijay Pandey	Professor	01.02.2018
05	Mr. Mithilesh Kumar	Associate Professor	17.10.1994
06	Mr. Manoj kumar Singh	Associate Professor	29.10.1999
07	Mr. Dhiraj Jha	Assistant Professor	19.09.2006
08	Dr. Sunil Kumar Choudhary	Assistant Professor	11.09.2006
09	Dr. Rajan Kumar	Assistant Professor	07.09.2006
10	Dr. Sunil Kumar	Assistant Professor	07.09.2006
11	Mr. Naresh Kumar Choudhary	Assistant Professor	07.09.2006
12	Dr. Rajan Kumar Nayak	Assistant Professor	07.09.2006
13	Mr. Mahendra Kumar Bhagat	Assistant Professor	07.09.2006
14	Dr. Ujjwal Kumar Nayak	Assistant Professor	07.09.2006
15	Mr. Narendra Pratap	Assistant Professor	07.09.2006
16	Dr. Ravishanker Prasad	Assistant Professor	07.09.2006
17	Dr. Pankaj Kumar	Assistant Professor	07.09.2006
18	Dr. Jitendra Nath Mahato	Assistant Professor	11.09.2006
19	Dr. Purusutum Kumar Singh	Assistant Professor	26.02.2018
20	Mr. Animesh Jee Kujur	Assistant Professor	06.03.2018
21	Mr. Amit Kumar Mishra	Assistant Professor	07.03.2018
22	Mr. Anish Kumar	Assistant Professor	04.01.2018
23	Mr. Prabhakar	Assistant Professor	04.01.2018
24	Dr. Som Nath Saha	Assistant Professor	03.01.2018



25	Mr. Umesh Chandra Gaur	Part Time Lecturer	07.08.2019
26	Mr. Vivek Kumar	Part Time Lecturer	07.08.2019
Civil Engineering Department			
27	Dr. Vikarma Pandey	Professor & Head	03.09.1984
28	Dr. Ranvijay Singh	Professor	30.10.2017
29	Dr. Uday Kumar Singh	Professor	19.10.1994
30	Dr. Krishna Murari	Professor	21.10.1994
31	Mr. Ajit Kumar Singh	Associate Professor	06.05.1983
32	Mr. Shiv Kumar	Associate Professor	17.10.1994
33	Mr. Chitranjan Sharma	Associate Professor	17.10.1994
34	Mr. J.P. Singh	Associate Professor	17.10.1994
35	Mr. Shyam Kishor Kumar	Associate Professor	17.10.1994
36	Mr. P.K. Sharma	Associate Professor	17.10.1994
37	Dr. Jitu Kujur	Associate Professor	20.12.2017
38	Mr. Nishi Kant Kishku	Assistant Professor	12.09.2006
39	Mr. Abhijit Anand	Assistant Professor	04.01.2018
40	Mr. Rabindra Kumar	Assistant Professor	03.01.2018
41	Ms. Sudha Das Khan	Assistant Professor	04.01.2018
42	Mr. Iqbal Sheik	Assistant Professor	04.09.2018
43	Mr. Prashant Ranjan Malviya	Assistant Professor	27.09.2019
44	Ms. Saroj Meena	Assistant Professor	04.09.2018
Electrical Engineering Department			
45	Dr. Upendra Prasad	Professor	22.02.1993
46	Dr. Pankaj Rai	Professor	27.01.1993
47	Dr. D.K. Tanti	Professor & Head	26.02.1993
48	Dr. F. Ansari	Professor	18.05.1993
49	Dr. Md. Abul Kalam	Associate Professor	14.03.2019
50	Smt. Rekha Jha	Associate Professor	29.01.1993
51	Dr. Ramjee Prasad Gupta	Assistant Professor	07.09.2006
52	Mr. Shashi Minz	Assistant Professor	07.09.2006
53	Mr. Rajendra Murmu	Assistant Professor	07.09.2006
54	Mr. Nishant Kumar	Assistant Professor	06.03.2018
55	Mr. Praveen Kumar	Assistant Professor	09.03.2018
56	Mr. Amit Kumar	Assistant Professor	09.03.2018
57	Dr. Amit Kumar Choudhary	Assistant Professor	15.03.2018
58	Mr. Anuj Kumar Pandey	Assistant Professor	02.01.2018
59	Mr. Avinash Mishra	Assistant Professor	02.01.2018
60	Mr. Biswaranjan Mishra	Assistant Professor	04.01.2018
61	Mr. Dil Kumar T. R.	Assistant Professor	04.01.2018
62	Mr. Gunturu Vijay Kumar	Assistant Professor	04.01.2018
63	Dr. Kaushik Paul	Assistant Professor	03.01.2018
64	Ms. Kumari Sarwagya	Assistant Professor	04.01.2018
65	Mr. Matta Mani Sankar	Assistant Professor	04.01.2018
66	Mr. Mukhlesur Rahman	Assistant Professor	02.01.2018
67	Ms. Niharika	Assistant Professor	03.01.2018
68	Mr. Rakesh Rohan	Assistant Professor	02.01.2018
69	Mr. Ramesh Devarapalli	Assistant Professor	05.01.2018
70	Mr. Suman Ranjan	Assistant Professor	04.01.2018
71	Mr. Vandan Raj Kamal Alluri	Assistant Professor	04.09.2018
Production Engineering Department			
72	Dr. Prakash Kumar	Professor & Head	14.07.2000
73	Dr. Rakesh	Professor	14.07.2000
74	Dr. A.R. Ansari	Assistant Professor	14.07.2000
75	Mr. Anand Kumar	Assistant Professor	03.01.2018
76	Mr. Kashif Hasan Kazmi	Assistant Professor	04.01.2018
77	Dr. Sumanta Mukharjee	Assistant Professor	01.09.2018



78	Mr. Mukesh Chandra	Assistant Professor	05.09.2018
79	Dr. Surya Narayana Panda	Assistant Professor	03.01.2018
80	Ms. Vidya Vijeta	Part Time Lecturer	07.08.2019
Metallurgical Engineering Department			
81	Dr. B.N. Roy	Professor	24.05.2000
82	Dr. A.K. Rajak	Associate Professor & Head	24.05.2000
83	Mr. Sardanand Prasad	Associate Professor	09.09.1985
84	Dr. Sagram Hembram	Assistant Professor	07.09.2006
85	Dr. Sumit Kumar Sharma	Assistant Professor	05.03.2018
86	Mr. Babul Das	Assistant Professor	18.01.2018
87	Mr. Mrityunjay Shukla	Assistant Professor	25.09.2018
88	Mr. Tvarit Patel	Assistant Professor	17.01.2018
89	Mr. Rajni Kant Gaurav	Part Time Lecturer	07.08.2019
90	Mr. Deepak Kumar Srivastava	Part Time Lecturer	07.08.2019
91	Mr. Chandra Bhushan Singh	Part Time Lecturer	07.08.2019
Chemical Engineering Department			
92	Dr. Amit Kumar Gupta	Associate Professor & Head	12.09.2006
93	Dr. Amar Kumar	Assistant Professor	07.09.2006
94	Mr. Ajay Oraon	Assistant Professor	08.09.2006
95	Dr. Arvind Singh	Assistant Professor	07.03.2018
96	Dr. B. Sujan Kumar	Assistant Professor	05.01.2018
97	Dr. Ch. V. Raghunath	Assistant Professor	03.01.2018
98	Ms. Devina Ratnam	Assistant Professor	04.01.2018
99	Dr. Rupak kishor	Assistant Professor	05.01.2018
100	Dr. Sanjay Kumar	Assistant Professor	04.01.2018
101	Mr. Mahendra Ram	Assistant Professor	03.09.2018
102	Dr. Suneeta Kumari	Assistant Professor	04.09.2018
103	Ms. A. Sameera	Assistant Professor	04.09.2018
104	Mr. B. Kartheek	Assistant Professor	04.09.2018
105	Ms. Poornima Panday	Part Time Lecturer	07.08.2019
Electronics and Communication Engineering			
106	Dr. Madan Gopal Tiary	Professor	19.01.2018
107	Dr. Amar Prakash Sinha	Associate Professor	19.12.2006
108	Dr. Imtyaz Ahmad	Asso. Professor & Head	07.09.2006
109	Dr. Arvind Kumar	Assistant Professor	16.09.2006
110	Smt. Sabita Nayak	Assistant Professor	08.09.2006
111	Dr. Santosh Kumar Verma	Assistant Professor	15.03.2018
112	Smt. Sangita Kumari	Assistant Professor	01.07.2004
113	Mr. Jagveer Singh Verma	Assistant Professor	04.01.2018
114	Ms. Kritika Awasthi	Assistant Professor	05.01.2018
115	Mr. Hanif Ali	Assistant Professor	16.01.2018
116	Ms. Pritika Singh	Assistant Professor	05.01.2018
Mining Engineering Department			
117	Dr. U.K. Dey	Professor & Head	14.10.1985
118	Mr. Chinmay Mondal	Assistant Professor	02.01.2018
119	Mr. Manas Kumar Mallick	Assistant Professor	04.01.2018
120	Mr. Kapil Kumar	Assistant Professor	16.01.2018
121	Mr. Neeraj Yadav	Assistant Professor	04.01.2018
122	Mr. Rizwan Hasim	Assistant Professor	05.01.2018
123	Mr. Saurabh Jain	Assistant Professor	04.01.2018
124	Mr. Suman Hessa	Assistant Professor	05.01.2018
125	Mr. Arpan Halder	Assistant Professor	09.01.2018
126	Mr. Tanmay Dasgupta	Assistant Professor	05.01.2018
Computer Science and Engineering Department			
127	Dr. Subash Chandra Dutta	Assistant Professor	07.09.2006



128	Mr. Abhay Gyan P. Kujur	Assistant Professor	08.12.2006
129	Mr. A Ranjith	Assistant Professor	03.01.2018
130	Mr. Bhawesh Kumar	Assistant Professor	04.01.2018
131	Mr. Deepak Kumar	Assistant Professor	03.01.2018
132	Dr. Poulami Dalapati	Assistant Professor	04.01.2018
133	Mr. Tapan Kumar Nayak	Assistant Professor	05.01.2018
134	Mr. Vikash Kumar Singh	Assistant Professor	03.01.2018
Information Technology Department			
135	Mr. Rajeev Ranjan	Assistant Professor	31-01-2012
136	Mr. Raghunandan Kumar	Assistant Professor	31-01-2012
137	Smt. Parbati Mahanto	Assistant Professor	31-01-2012
138	Mr. Panjeet Kumar Lenka	Assistant Professor	04/01/2018
139	Dr. Pooja Sharma	Assistant Professor	05/01/2018
140	Ms. Rupali Kumari	Assistant Professor	03/01/2018
141	Mr. Shesh Narayan Sahu	Assistant Professor	04/01/2018
142	Mr. Anant Raj P	Assistant Professor	19/01/2018
143	Mr. Sachin Kumar Agarwal	Assistant Professor	18/01/2018
144	Mr. Dinesh Kumar Prabhakar	Assistant Professor	16/01/2018
Physics Department			
145	Dr. S.N. Vimal	Professor	26-09-1991
146	Dr. Ghanshyam	Professor	14-05-1997
147	Dr. R.K. Verma	Professor & Head	27-07-2000
148	Dr. Bindeshwer Jha	Associate Professor	07.01.2000
149	Dr. Swati Modi	Assistant Professor	04.09.2018
Mathematics Department			
150	Dr. C. Thakur	Professor	11.08.2000 Dept. 14.8.2001 BIT
151	Dr. Sanat Kumar Pandey	Professor & Head	29.10.1999
152	Dr. Ghanshyam Prasad	Assistant Professor	27.02.2018
153	Dr. Priyanka Kumari	Assistant Professor	03.01.2018
154	Dr. Satish Kumar Tiwari	Assistant Professor	04.01.2018
155	Ms. Monal Bharty	Part Time Lecturer	07.08.2019
156	Mr. T P Singh	Part Time Lecturer	07.08.2019
Chemistry Department			
157	Dr. Ranjeet Kumar Singh	Professor & Head	20.03.2013
158	Dr. Sanjay Prasad Mishra	Professor	20.03.2013
159	Dr. Kunal Kumar	Associate Professor	07.09.2006
160	Dr. Manoj Kumar Mishra	Assistant Professor	31.01.2008
161	Mr. Pintu Kumar Mandal	Part Time Lecturer	07.08.2019
162	Ms. Swati Tomer	Part Time Lecturer	07.08.2019
Geology Department			
163	Dr. G. Kumar	Professor	25.03.1992
164	Dr. Promod Kumar Singh	Professor & Head	30.08.1997
165	Dr. Ajit Kumar Behera	Assistant Professor	05.01.2018
166	Mr. Manoj Kumar Nayak	Assistant Professor	04.01.2018
Humanities Department			
167	Dr. Arvind Kumar	Professor & Head	17.10.1994
168	Dr. Sadaf Jamal	Assistant Professor	03.01.2018
169	Mr. Muni Kant Mishra	Part Time Lecturer	07.08.2019
170	Mr. Sumanto Mandal	Part Time Lecturer	07.08.2019

List of faculty members retired or relieved in the last one year

Sl.	Name	Designation	Date of retirement
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01	Dr. Suresh Prasad Singh	Professor	30.11.2019
02	Dr. Ravinder Sharma	Professor	31.03.2020

List of faculty members appointed in last three years

Sl.	Name	Designation	Department	Date of Joining
01	Dr. D.K. Singh	Director		21-01-2017
02	Dr. Vijay Pandey	Professor	Mechanical	01-02-2018
03	Dr. Md. Abul Kalam	Associate Professor	Electrical	14-03-2019
04	Dr. Ranvijay Singh	Professor	Civil	30-10-2017
05	Dr. Jitu Kujur	Associate Professor	Civil	20-12-2017
06	Dr. Madan Gopal Tiary	Professor	ECE	19-01-2018

List of faculty members promoted in last three years:

Sl.	Name	Designation	Department	Date of Promotion
1.	Dr. Kunal Kumar	Associate Professor	Chemistry	07-09-2018
2.	Dr. Amit Kumar Gupta	Associate Professor	Chemical	12-09-2018
3.	Dr. Sanat Kumar Pandey	Professor	Mathematics	01-06-2014
4.	Dr. Ravinder Sharma	Professor	Mathematics	01-05-2013
5.	Dr. Krishna Murari	Professor	Civil	18-10-2017
6.	Dr. R.K. Verma	Professor	Physics	12-04-2016
7.	Dr. Arvind Kumar	Professor	Humanities	20-03-2016
8.	Dr. Promod Kumar Singh	Professor	Geology	01-12-2017
9.	Dr. Prakash Kumar	Professor	Production	12-12-2017
10.	Dr. Rakesh	Professor	Production	11-11-2017
11.	Dr. Sanjay Prasad Mishra	Professor	Chemistry	20-03-2016

Note: Promoted through CAS in the current Academic Session.

**Staff Information:**

Sl.	Name	Designation	Date of Joining
01	Sri Angastine Malto	Class-III, Teaching	25-08-2009
02	Sri Vivek Dehri	Class-III, Teaching	25-08-2009
03	Smt. Selina Kumari Malto	Class-III, Teaching	17-08-2009
04	Smt. Salomina Thithio	Class-III, Teaching	22-08-2009
05	Sri Dharendra Kumar	Class-III, Teaching	14-08-2000
06	Sri Satynaryan Sharma	Class-III, Teaching	<u>31-01-1991</u> 06-10-1994 B.I.T. Sindri
07	Sri Shashi Bhushan Kumar	Class-III, Teaching	28-11-2002
08	Sri Vijay Sharma	Class-III, Teaching	<u>31-01-1991</u> 05-04-2008 B.I.T. Sindri
09	Sri Braj Kishor Singh	Class-III, Teaching	<u>31-01-1991</u> 06-10-1994 B.I.T. Sindri
10	Sri Naresh Prasad	Class-III, Teaching	<u>31-01-1991</u> 10-01-1994 B.I.T. Sindri
11	Sri Basant Singh	Class-III, Teaching	<u>31-01-1991</u> 12-01-1994 B.I.T. Sindri
12	Md. Mofiz Ahmad	Class-III, Teaching	<u>31-01-1991</u> 20-01-1994 B.I.T. Sindri
13	Sri Muninder Kumar	Class-III, Non-Teaching	28-12-1991
14	Sri Abhay Kumar	Class-III, Non-Teaching	22-01-2008
15	Sri Sita Ram Prasad	Class-III, Non-Teaching	14-01-1987
16	Sri Ganesh Kumar Pal	Class-III, Non-Teaching	15-01-1987
17	Sri Vinod Prasad Singh	Class-III, Non-Teaching	18-11-1991
18	Sri Permanand Yadaw	Class-III, Non-Teaching	13-06-1990
19	Sri Niranjana Jha	Class-III, Non-Teaching	26-07-1993
20	Sri Pankaj Kumar Mishra	Class-III, Non-Teaching	19-02-1999
21	Sri Jagat Narayan Prasad	Class-III, Non-Teaching	19-02-1999
22	Sri Bindeshwer Prasad	Class-III, Non-Teaching	19-02-1999
23	Sri Kamlesh Kumar Singh	Class-III, Non-Teaching	19-02-1999
24	Sri Punya Dev Ram	Class-III, Non-Teaching	19-02-1999
25	Sri Jagdish Ravidas	Class-III, Non-Teaching	27-08-1997
26	Sri Udey Shanker Prasad	Class-III, Non-Teaching	26-08-1997
27	Sri Suresh Kumar	Class-III, Non-Teaching	20-04-1999
28	Sri Birendra Kumar	Class-III, Non-Teaching	15-04-1999
29	Sri Shyam Pado Gorai	Class-III, Non-Teaching	02-09-1994
30	Sri Shyam Sunder Rakshit	Class-III, Non-Teaching	21-10-1992
31	Sri Ramanuj Pandey	Class-III, Non-Teaching	<u>01-09-1985</u> 14-10-1998
32	Sri Anil Kumar Singh	Class-III, Non-Teaching	<u>19-04-1989</u> 14-10-1998
33	Sri Raj Kumar Sharma	Class-III, Non-Teaching	14-04-1999
34	Sri Kaushal Kishore	Class-III, Non-Teaching	<u>28-12-1991</u> 15-07-1999 B.I.T. Sindri
35	Sri Dilip Kumar	Class-III, Non-Teaching	<u>28-12-1991</u> 15-07-1999 B.I.T. Sindri
36	Sri Ram Udey Sharma	Class-III, Non-Teaching	<u>28-12-1991</u>



			15-07-1999 B.I.T. Sindri
37	Smt. Usha Jha	Class-III, Non-Teaching	20-02-2009
38	Sri Rajesh Kumar	Class-III, Non-Teaching	30-03-2009
39	Sri Mukesh Kumar Singh	Class-III, Non-Teaching	19-02-2010
40	Sri Abhishek Kumar	Class-III, Non-Teaching	30-08-2013
41	Sri Ravish Kumar	Class-III, Non-Teaching	25-11-2013
42	Sri Kuldeep Das	Class-III, Non-Teaching	04-08-2015
43	Sri Rajesh Kumar Sah	Class-III, Non-Teaching	13-07-2017
44	Sri Kritee Bhusan Kumar	Class-III, Non-Teaching	13-07-2017
45	Sri Sunny Bhusan	Class-III, Non-Teaching	13-07-2017
46	Sri Tuphani Prasad	Class-III, Non-Teaching	20-12-2017
47	Sri Raju Kumar	Class-III, Non-Teaching	20-12-2017
48	Sri Sunny Kumar	Class-III, Non-Teaching	20-12-2017
49	Md. Ekram Ansari	Class-III, Non-Teaching	20-12-2017
50	Sri Sumit Sourav	Class-III, Non-Teaching	20-12-2017
51	Sri Bhuneshwer Singh	Class-III, Non-Teaching	<u>31-01-1991</u> 19-11-1999 B.I.T. Sindri
52	Sri Ramjee Mali	Class-IV	30-12-1993
53	Sri Lakhi Rai	Class-IV	11-07-1994
54	Sri Ramavtar Rajak	Class-IV	14-08-2010
55	Md. Azij Husain Ansari	Class-IV	14-08-2010
56	Md. Mobin Kazi	Class-IV	14-08-2010
57	Sri Shivilal Kumahar	Class-IV	16-08-2010
58	Sri Raj Kishore Mahto	Class-IV	16-08-2010
59	Sri Santi Nath Dutta	Class-IV	16-08-2010
60	Sri Ram Lal Tudu	Class-IV	16-08-2010
61	Sri Mantu Mandal	Class-IV	20-08-2010
62	Sri Rameshwer Singh	Class-IV	16-08-2010
63	Md. Abuddin Ansari	Class-IV	16-08-2010
64	Sri Raju Gorai	Class-IV	19-11-1991
65	Sri Murari Prasad Mandal	Class-IV	01-06-1988
66	Sri Madan Sharma	Class-IV	<u>31-01-1991</u> 10-01-1994 B.I.T. Sindri
67	Sri Ramjee Singh	Class-IV	16-08-1988
68	Sri Sunil Kumar	Class-IV	25-11-1988
69	Sri Shesh Nath Mishra	Class-IV	08-12-1981
70	Sri Vijay Kumar Singh	Class-IV	01-09-1989
71	Sri Dinesh Ram	Class-IV	01-09-1989
72	Sri Ajit Kumar Uraw	Class-IV	01-06-1988
73	Sri Sukar Sikdar	Class-IV	16-08-1988
74	Sri Akhilesh Kumar Tiwari	Class-IV	14-08-2010
75	Md. Sabrati Ansari	Class-IV	14-08-2010
76	Sri Arjun Pramanic	Class-IV	14-08-2010
77	Sri Jiten Kumhar	Class-IV	16-08-2010
78	Sri Mathura Prasad Mandal	Class-IV	16-08-2010
79	Sri Binod Prasad Singh	Class-IV	16-08-2010
80	Sri Golak Pati Mandal	Class-IV	16-08-2010
81	sri Vishnupad Chandra	Class-IV	16-08-2010
82	Sri Dilip Kumar Mahto	Class-IV	16-08-2010
83	Sri Shishir Kumar Mandal	Class-IV	16-08-2010
84	Sri Mantustu Mahto	Class-IV	16-08-2010
85	Sri Dilu Ram Mahto	Class-IV	16-08-2010
86	Sri Samir Kumar Mandal	Class-IV	16-08-2010



87	Sri Viresh Prasad Choudhary	Class-IV	16-08-2010
88	Sri Vijay Kumar Rajak	Class-IV	16-08-2010
89	Sri Mantu Prasad Mahto	Class-IV	17-08-2010
90	Sri Suman Kumhar	Class-IV	16-08-2010
91	Sri Shatrudhan Mahto	Class-IV	16-08-2010
92	Sri Manoj Kumar Sharma	Class-IV	01-06-1988
93	Sri Ajay Ram	Class-IV	19-02-1999
94	Sri Shiv Kumar Ram	Class-IV	01-10-1986
95	Sri Ajay Pandey	Class-IV	16-08-2010
96	Sri Arvind Kumar	Class-IV	16-08-2010
97	Sri Ramdash Rohidash	Class-IV	14-08-2010
98	Sri Sita Ram Mahtha	Class-IV	14-08-2010
99	Sri Uday Singh	Class-IV	13-08-2010
100	Sri Dilip Kumar Rawani	Class-IV	14-08-2010
101	Sri Devnandan Singh	Class-IV	13-08-2010
102	Sri Mithilesh Kumar Singh	Class-IV	13-08-2010
103	Sri Deepak Kumar	Class-IV	16-08-2010
104	Sri Subodh Paswan	Class-IV	14-08-2010
105	Sri Raj Kumar Das	Class-IV	14-08-2010
106	Sri Amal Chandra Nag	Class-IV	14-08-2010
107	Sri Shekhsad Aksha	Class-IV	14-08-2010
108	Sri Sukar Das	Class-IV	14-08-2010
109	Sri Chandi Ravidash	Class-IV	14-08-2010
110	Sri Suresh Kumar Srivastwa	Class-IV	13-08-2010
111	Sri Naval Kishor Kumhar	Class-IV	14-08-2010
112	Sri Santu Gop	Class-IV	14-08-2010
113	Sri Pravin Kumar	Class-IV	14-08-2010
114	Md. Samsad Alam	Class-IV	14-08-2010
115	Sri Kala Chand Mahto	Class-IV	16-08-2010
116	Sri Vinay Kumar Chaudhary	Class-IV	31-01-1991
117	Sri Sudhir Kumar	Class-IV	31-01-1991
118	Sri Dudheshwer Gupta	Class-IV	31-01-1991
119	Sri Saroj Kumar	Class-IV	31-01-1991
120	Md. Fateh Alam	Class-IV	14-01-1987
121	Sri Vinod Ram	Class-IV	27-12-2004
122	Sri Sukhari Raut	Class-IV	16-08-1988
123	Sri Dilip Kumar	Class-IV	20-11-1991
124	Smt. Chinta Devi	Class-IV	24-05-1990
125	Smt. Seema Kumari	Class-IV	28-02-2020
126	Sri Yogendra Jha	Class-IV	16-08-1988
127	Sri Anil Kumar Chaudhary	Class-IV	31-01-1991
128	Smt. Nilam Kumari	Class-IV	14-08-2010
129	Smt. Mangla Hembram	Class-IV	14-08-2010
130	Sri Dinesh Kumar Das	Class-IV	16-08-2010
131	Md. Jainudeen Mansuri	Class-IV	14-08-2010
132	Sri Manoj Kumar Paswan	Class-IV	14-08-2010
134	Sri Dev Narayan Soren	Class-IV	16-08-2010
135	Sri Ajit Kumar Pandey	Class-IV	14-08-2010
136	Sri Shanti Ram Hansda	Class-IV	14-08-2010
137	Sri Dinesh Kumar Rajak	Class-IV	14-08-2010
138	Sri Kanhaiyalal Singh Chaudhary	Class-IV	16-08-2010
139	Sri Lakshaman Ram	Class-IV	14-08-2010
140	Md. Abul Kalam	Class-IV	14-08-2010
141	Sri Tarapad Hembram	Class-IV	16-08-2010
142	Sri Subal Chandra Da	Class-IV	16-08-2010
143	Sri Abhedanand Dutta	Class-IV	14-08-2010



144	Sri Hira Lal Ravidash	Class-IV	14-08-2010
145	Sri Suresh Singh Chaudhary	Class-IV	16-08-2010
146	Md. Abdul Rahman Ansari	Class-IV	16-08-2010
147	Sri Sanjay Kumar Jha	Class-IV	16-08-2010
148	Sri Suresh Chandra Mahto	Class-IV	16-08-2010
149	Sri Lalmohan Rohidash	Class-IV	14-08-2010
150	Smt. Shilamuni Tudu	Class-IV	14-08-2010
151	Smt. Doli Debya	Class-IV	13-08-2010
152	Sri Sadhan Kumar Upadhyay	Class-IV	14-08-2010
153	Sri Lekharam Murmu	Class-IV	14-08-2010
154	Sri Ranjeet Kumar Hazam	Class-IV	14-08-2010
155	Sri Gumit Tudu	Class-IV	14-08-2010
156	Sri Lalit Kumar Pandey	Class-IV	14-08-2010
157	Sri Mahavir Ravidas	Class-IV	14-08-2010
158	Sri Dilip Kumar Rajwar	Class-IV	19-08-2010
159	Sri Sunil Kumar Mishra	Class-IV	14-08-2010
160	Sri Hari Murmu	Class-IV	14-08-2010
161	Sri Tanmay Ghosh	Class-IV	14-08-2010
162	Sri Sambhu Prasad	Class-IV	14-08-2010
163	Sri Bhim Chandra Thakur	Class-IV	14-08-2010
164	Sri Rashik Lal Murmu	Class-IV	16-08-2010
165	Sri Shyam Lal Pathak	Class-IV	13-08-2010
166	Md. Mansur Ansari	Class-IV	16-08-2010
167	Sri Brij Nandan Singh	Class-IV	16-08-1988
168	Sri Nand Dev Das	Class-IV	16-08-2010
169	Sri Jageshwar Mahali	Class-IV	16-08-2010
170	Sri Paika Murmu	Class-IV	16-08-2010
171	Sri Sadhu Charan Mahato	Class-IV	16-08-2010
172	Sri Bihari Ravidash	Class-IV	16-08-2010
173	Sri Reshan Marandi	Class-IV	16-08-2010
174	Sri Vijay Shanker Singh	Class-IV	16-08-2010
175	Sri Vijay Devdas	Class-IV	14-08-2010
176	Smt. Gayatri Devi	Class-IV	26-07-1994
177	Smt. Kumari Kalpna	Class-IV	
178	Smt. Mangoli Manjhiyan	Class-IV	05-09-1994
179	Sri Rajesh Kumar Nishad	Class-IV	06-09-1997
180	Sri Kali Charan Mahto	Class-IV	16-08-2010
181	Md. Nausad Ali Ansari	Class-IV	16-08-2010
182	Smt. Photomuni Murmu	Class-IV	14-08-2010
183	Md. Samim Akhater Ansari	Class-IV	14-08-2010
184	Sri Krishna Ram	Class-IV	21-05-1990
	Sri Vanshidhar Mahto	Class-IV	16-08-2010
185	Sri Haradhan Tiwari	Class-IV	01-10-2007
186	Sri Sanker Deyal Mahto	Class-IV	06-04-1989
187	Sri Gopal Das	Class-IV	14-08-2010
188	Sri Sitendra Prasad	Class-IV	01-10-2007
189	Sri Bharat Mishra	Class-IV	01-10-2007
190	Sri Ajit Singh	Class-IV	18-05-1990
191	Sri Ramesh Thakur	Class-IV	06-09-1988
192	Sri Jainath Mahto	Class-IV	13-08-2010
193	Sri Vikal Chandra Das	Class-IV	14-08-2010
194	Sri Kalipad Tudu	Class-IV	14-08-2010
195	Md. Jainul Abeddin Ansari	Class-IV	16-08-2010
196	Sri Santosh Kumar	Class-IV	16-08-2010



197	Sri Gunanad Pandey	Class-IV	16-08-2010
198	Sri Lakhi Ram Kumbhkar	Class-IV	16-08-2010
199	Sri Suresh Prasad Gupta	Class-IV	14-08-2010
200	Sri Subhas Chandra Das	Class-IV	16-08-2010
201	Sri Anant Lal Kumar	Class-IV	16-08-2010
202	Smt. Lalita Rai	Class-IV	13-08-2010
203	Sri Umakant Sinha	Class-IV	16-08-2010
204	Sri Arjun Bahadur	Class-IV	16-08-2010
205	Sri Babu Lal Das	Class-IV	14-08-2010
206	Sri Rewat Lal Singh	Class-IV	16-08-2010
207	Sri Vijay Kumar Ram	Class-IV	11-02-1985
208	Sri Badrinath Sais	Class-IV	20-08-1985
209	Sri Arjun Ram No.-1	Class-IV	15-06-1983
210	Sri Subhas Chandra	Class-IV	17-03-1993
211	Sri Babu Ram	Class-IV	20-11-1991
212	Sri Ashok Kumar	Class-IV	21-01-1986
213	Smt. Phulwa Devi	Class-IV	06-11-1987
214	Smt. Kiran Devi No.1	Class-IV	23-06-1986
215	Smt. Chameli Devi	Class-IV	17-03-1993
216	Smt. Kiran Devi No.2	Class-IV	19-11-1990
217	Smt. Mina Devi	Class-IV	29-10-1989
218	Sri Ram Chandra Ram	Class-IV	13-03-1989
219	Sri Baban Ram	Class-IV	17-03-1994
220	Sri Manoj Ram	Class-IV	29-04-2009

List of staff retired or relieved in the last year

Sl.	Name	Designation	Date of Joining
01	Md. Fazlur Rahman	Watchman	28-02-2019
02	Sri Bhagwan Ram	Lab. Attd.	31-03-2019
03	Sri Prabhat Kumar Singh	Lab. Assistant	30-04-2019
04	Sri Babulal Balmiki	Sweeper	31-07-2019
05	Sri Nanak Chand	Sweeper	31-08-2019
06	Sri Biswanath Thakur	Assistant Fitter	30-11-2019
07	Sri Suresh Chandra	Sweeper	30-11-2019
08	Sri Rajendra Thakur	Watchman	31-12-2019
09	Sri Kumar Aditya Narayan Singh	Lab. Assistant	31-01-2020
10	Sri Sudama Sah	Mali	29-02-2020
11	Sri Karam Chand Mahato	Store Attd.	29-02-2020
12	Sri Raman Singh	Class Room Attd.	31-03-2020
13	Sri Shiv Shanker Thakur	Machanic	31-03-2020
14	Sri Uma Shanker Prasad Singh	Lab. Assistant	31-05-2020
15	Sri Anand Kumhar	Lab. Attd.	31-05-2020



List of staff appointed in last three years

<i>Sl.</i>	<i>Name</i>	<i>Designation</i>	<i>Department</i>	<i>Date of Joining</i>
01	<i>Sri Rajesh Kumar Sah</i>	<i>LDC</i>	<i>Guest House</i>	<i>13-07-2017</i>
02	<i>Sri Kritee Bhusan Kumar</i>	<i>LDC</i>	<i>Establishment Sect.</i>	<i>13-07-2017</i>
03	<i>Sri Sunny Bhusan</i>	<i>LDC</i>	<i>Account Sec.</i>	<i>13-07-2017</i>
04	<i>Sri Tuphani Prasad</i>	<i>LDC</i>	<i>ECE</i>	<i>20-12-2017</i>
05	<i>Sri Raju Kumar</i>	<i>LDC</i>	<i>Establishment Sect.</i>	<i>20-12-2017</i>
06	<i>Sri Sunny Kumar</i>	<i>LDC</i>	<i>Academic Sec.</i>	<i>20-12-2017</i>
07	<i>Md. Ekram Ansari</i>	<i>LDC</i>	<i>Central Library</i>	<i>20-12-2017</i>
08	<i>Sri Sumit Sourav</i>	<i>LDC</i>	<i>IT</i>	<i>20-12-2017</i>
09	<i>Smt. Seema Kumari</i>	<i>Class - IV</i>	<i>Examination Sec.</i>	<i>28-02-2020</i>

**Student Information:**

Sl.	Program	General		BCI		BCII		SC		ST		PD	
		M	F	M	F	M	F	M	F	M	F	M	F
1	1 st Year	264	62	46	7	31	6	55	12	129	38	5	3
2	2 nd Year	286	57	47	6	32	6	64	12	150	32	16	2
3	3 rd Year	304	62	51	9	33	5	62	11	139	48	9	0
4	4 th Year	321	54	52	6	38	5	70	9	146	54	10	2
5	1 st Year M. Tech	69	5	10	0	6	2	12	0	3	1	-	-
6	2 nd Year M. Tech	56	1	13	1	17	0	8	1	11	2	-	-

Branch wise Student Information:

Sl.	Program me	I year		II year		III Year		IV Year		M. Tech I Year		M. Tech II Year	
		M	F	M	F	M	F	M	F	M	F	M	F
1	Mechanical Engg.	118	2	107	6	126	1	125	1	44	3	50	
2	Electrical Engg.	79	34	99	18	88	34	87	29	22	2	19	1
3	Production Engg.	44	10	47	10	57	8	61	6	-	-	-	-
4	Metallurgical Engg.	56	7	57	7	52	9	58	6	6	1	1	0
5	Chemical Engg.	60	39	68	28	59	24	58	35	0	0	3	0
6	Civil Engg.	102	12	102	10	105	12	114	9	34	2	32	4
7	ECE	41	20	40	19	37	24	44	20	-	-	-	-
8	Mining	56	2	56	0	55	0	63	0	-	-	-	-
9	CSE	39	6	25	18	33	13	36	11	-	-	-	-
10	IT	33	13	39	11	32	16	29	19	-	-	-	-



Academic Calendar

B.I.T. SINDRI

(Department of Higher, Technical Education and Skill Development, Govt. of Jharkhand, Ranchi)

P.O. Sindri Institute, Dhanbad-828123

Academic Calendar 2020

B. Tech & M.Tech Even Semester

B.Tech 2nd semester 2020(JUT)

Teaching	:	31 January 2020
Mid Semester I	:	26 March 2020
Tech Fest	:	12-14 April 2020
Mid Semester II	:	12 May 2020
Make up Classes	:	30 May 2020 to 02 June 2020
Form Filling and Viva-Voce	:	16 May 2020 onwards (Tentative)
End Semester Exam	:	09 June 2020 (Tentative)

B.Tech 4th semester 2020 (JUT)

Teaching	:	31 January 2020
Mid Semester I	:	26 March 2020
Tech Fest	:	12-14 April 2020
Mid Semester II	:	12 May 2020
Make up Classes	:	30 May 2020 to 02 June 2020
Form Filling and Viva-Voce	:	16 May 2020 onwards (Tentative)
End Semester Exam	:	08 June 2020 (Tentative)

B.Tech 6th semester 2020 (VBU)

Teaching	:	31 January 2020
Class Test I	:	14-16 March 2020
Class Test II	:	03-04 April 2020
Tech Fest	:	12-14 April 2020
Class Test III	:	27-28 April 2020
Mid Semester	:	20 March 2020
Make up Classes	:	02-05 May 2020
Form Filling and Viva-Voce	:	11 May 2020 onwards (Tentative)
End Semester Exam	:	18 May 2020 (Tentative)

B.Tech 8th semester 2020 (VBU)

Teaching	:	31 January 2020
Class Test I	:	16-17 March 2020
Class Test II	:	03-04 April 2020
Tech Fest	:	12-14 April 2020
Mid Semester	:	20 March 2020
Make up Classes	:	02-05 May 2020
Form Filling and Viva-Voce	:	11 May 2020 onwards (Tentative)
End Semester Exam	:	18 May 2020 (Tentative)

2/6/20
07.03.2020



M.Tech 2nd semester 2020 (JUT)

Teaching	:	20 Feb 2020
Class Test I	:	16 March 2020
Class Test-II	:	04 April 2020
Tech Fest	:	12-14 April 2020
Mid Semester	:	15 April 2020
Form Filling and Viva-Voce	:	15 May 2020
End Semester Exam	:	20 May 2020

M.Tech 4th semester 2018-20 (JUT)

Last date of Thesis Part II Submission:	27 April 2020
Date of Viva-Voce exam	: 06 May 2020

M.Tech 4th semester remaining Students (left over) (VBU)

Last date of Thesis Submission	:	27 April 2020
Date of Viva-Voce exam	:	07 May 2020

Holidays

Summer Vacation : 30 May 2020 to 04 August 2020 (Tentative)

Note: Form filling, Viva-voce and End semester examination dates are tentative.

Dr. 20/03/2020
Dean (Academic)
BIT Sindri

Memo No.- 210

Sindri, Dated: 07-03-2020

Copy forwarded for kind information and necessary action to :-

1. The Registrar, VBU Hazaribag.
2. The Controller of Examination, VBU Hazaribag.
3. The Registrar, Jharkhand University of Technology, Ranchi.
4. The Controller of Examination, Jharkhand University of Technology, Ranchi.
5. All HOD for wide circulation and display on departmental notice board.
6. Notice Board of Academic Section.
7. Prof. In-Charge, Institute Website, BIT Sindri.
8. Prof. In-Charge, Examination, BIT Sindri.
9. Prof. In-Charge, Time Table, BIT Sindri.
10. P.A. to Director for records.



B.I.T. SINDRI
(Department of Higher, Technical Education and Skill Development, Govt. of Jharkhand, Ranchi)
P.O. Sindri Institute, Dhanbad-828123
Academic Calendar 2020

B. Tech odd Semester (Through Spot Counseling)

B.Tech 1st semester 2020(JUT)

Teaching	:	06 Feb 2020
Mid Semester I	:	19 March 2020
Tech Fest	:	12-14 April 2020
Mid Semester II	:	16 April 2020
Make up Classes	:	18-21 April 2020
Form Filling and Viva-Voce	:	20 April 2020 onwards (Tentative)
End Semester Exam	:	27 April 2020 (Tentative)

B.Tech 3rd semester 2020 Lateral Entry (JUT)

Teaching	:	06 Feb 2020
Mid Semester I	:	19 March 2020
Tech Fest	:	12-14 April 2020
Mid Semester II	:	16 April 2020
Make up Classes	:	18-21 April 2020
Form Filling and Viva-Voce	:	20 April 2020 onwards (Tentative)
End Semester Exam	:	27 April 2020 (Tentative)

Holidays

Summer Vacation : 30 May 2020 to 04 August 2020 (Tentative)

Note: Form filling, Viva-voce and End semester examination dates are tentative.

Dr. J. K. Singh
07.03.2020
Dean (Academic)
BIT Sindri

Memo No.- 212

Sindri, Dated: 07.03.2020

Copy forwarded for kind information and necessary action to :-

1. The Registrar, VBU Hazaribag.
2. The Controller of Examination, VBU Hazaribag.
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Dr. J. K. Singh
07.03.2020
Dean (Academic)
BIT Sindri

**List of UG Programs:**

<i>Sr. No.</i>	<i>Program Name</i>	<i>Year of Start</i>	<i>Intake</i>	<i>Present intake</i>	<i>Year of increase</i>	<i>AICTE Approval</i>	<i>Accreditation Status*</i>
1.	Mechanical Engineering	1949	60	105	2003	Yes	2007-2010
2.	Electrical Engineering	1949	60	99	2003	Yes	do
3.	Production Engineering	1955	30	54	2003	Yes	do
4.	Metallurgy Engineering	1955	30	54	2003	Yes	do
5.	Chemical Engineering	1956	60	91	2003	Yes	do
6.	ECE	1957	30	52	2003	Yes	do
7.	Civil Engineering	1957	60	98	2003	Yes	do
8.	Mining Engineering	1975	30	49	2003	Yes	2019-2022
9.	CSE	1987	10	38	2003	Yes	No
10.	IT	2001	40	40	NA	Yes	No

List of PG Programs

<i>Sr. No.</i>	<i>Program Name</i>	<i>Year of Start</i>	<i>Intake</i>	<i>AICTE Approval</i>
11.	Heat Power	1968	25	Yes
12.	Production Tech & Management	1968	25	Yes
13.	Machine Design	1968	25	Yes
14.	Power System	1968	15	Yes
15.	Control System	1968	15	Yes
16.	Process Metallurgy	1968	25	Yes
17.	Physical Metallurgy	1968	15	Yes
18.	Plant Design	1968	25	Yes
19.	Soil & Foundation Mechanics	1968	25	Yes
20.	Structural Engineering	1968	25	Yes



Facilities & Technical Support

- *Data Centre equipped with blade servers and are networked to more than 700 PCs*
- *In-campus SBI branch and Post office.*
- *Canteen and in-campus Xerox facility.*
- *Alumni guest house & Alumni interaction cell.*
- *27+3 Nos of Hostels (3+1 Girls Hostels)*
- *Power backup facility along with double supply from Jharkhand board and ISCO/Sail Chasnala for hostels, departments and administrative building.*
- *All hostels have separate mess facilities with Ward boys for their help.*
- *Doctor Facility, New Health Centre (Under construction) along with Govt. PHC Centre*
- *24 hrs Ambulance facility.*
- *Video Conferencing facility.*
- *Central Library and departmental library.*
- *Separate building / floors for all the department.*
- *Separate volleyball and badminton for hostels apart from central Sports Grounds*
- *Bus facility*
- *Internet access to all hostel (Under installation again).*
- *In-campus Gym facility.*

Salient features of BIT

- *Lowest tuition fee (7,700/- annually)*
- *100 % Fee waiver for girl students*
- *75 % fee waiver for SC/ST students.*
- *Group Insurance is provided by the institute*
- *Sponsorship for industrial projects for conduction of B. Tech./M. Tech. thesis.*
- *State and Central Govt. Scholarships for SC, ST, OBC and minority students.*
- *Development of skills through additional courses and trainings.*
- *Full Financial support for additional training for CCNA, Oracle certification etc.*
- *Training through newly established 14 nos. SIEMENS lab*
- *Spoken tutorial, IIT Bombay*
- *Conference and discussion room.*



Dr. K.P. Singh Seminar Room



Dr. K.P. Singh Discussion Hall



Rajendra Prasad Hall (C51)



Mechanical Engineering Department

The Department of Mechanical Engineering was started in the year 1949 when the institute was born. The department offers four years B.Tech. degree course with an annual intake of 105 students. Two-year postgraduate programme is also offered leading to M. Tech. degree with specialization in Heat Power Engineering, Machine Design & Production Technology. The annual intake in the postgraduate programme is 75.

The department has well equipped laboratories required for undergraduate and postgraduate programs. The important laboratories include: Strength of materials, applied mechanics, Heat engine, Hydraulics, Aerodynamics, Heat & Mass Transfer, Solar energy and recently developed SIEMENS Laboratory having 3D Printing, Advanced Manufacturing lab, Robotics Lab, paint shop, CNC Lathe, spot welding etc. The department has also a huge workshop consisting of various units like carpentry, Smithy, Foundry, Machine shop etc.

VISION OF THE DEPARTMENT

To provide the valuable human resources for the industry and society through the excellence in technical education and scientific research in Mechanical engineering with moral values for the economic & sustainable growth of the country.

MISSION OF THE DEPARTMENT

1. To offer state of the art undergraduate, postgraduate and doctoral programs in Mechanical engineering.
2. To generate new knowledge by engaging in cutting edge research and development in mechanical engineering of new technology.
3. To provide conducive environment for collaborative projects with academia and industries.
4. To promote innovation and entrepreneurship.
5. To develop professional skills with ethical values.

Publications in International Journal

Name	Title	Name of Authors	Name of Seminar / Journal	ISBN/ISSN and Page No.	Year
Prof. Vijay Pandey	"Sequential optimisation of reconfigurable machine cell feeders and	Kant, R., Pattanaik, L.N., Pandey, V.,	International Journal of Computer Integrated Manufacturing,	Volume 33, Issue 1, 2020, pp. 62-78, ISSN: 0951-192X, https://doi.org/10.1080/09	2020



production
sequence during
lean assembly"

[51192X.2019.1690686](#),
Taylor & Francis, UK,

Book Chapters

1. Vijay Pandey, Akshaye Malhotra, Rajeev Kant and Sudip Kumar Sahana, Solving Scheduling Problems in PCB Assembly, *Advances in Swarm Intelligence (LNCS, volume 11655)*, 2019, pp 243-253, Springer Nature Switzerland, ISBN 978-3-030-26368-3.
2. Pooja Verma, Prabha Kumari, Joyjeet Ghose, and Vijay Pandey, Investigation of Mechanical Properties and Microstructure of Pure Al-SiC-Nanocomposite Casted by Stir-Squeeze Casting Process, *Innovation in Materials Science and Engineering, Volume 2*, pp. 61-70, Springer Nature Singapore Pvt. Ltd. 2019, ISBN 978-981-13-2943-2.

Workshops, seminars & Guest Lectures conducted under the department.

S.No.	Name of Event	Date	Name of delegates along with their designation	No. of participants	Name of Key organizers
<u>1.</u>	ICT Skills for Teachers	19 th -4 th June 2017	-	-	B.I.T. Sindri
<u>2.</u>	Recent Advances in Manufacturing (RAIM-18)	27 Nov – 1 Dec, 2018	Dr. somnath Chattopadyay, IIT (ISM) Dhanbad Dr. Sharad Chandra Srivastava BIT Mesra, Ranchi Dr. Zaheer Khan IIT BHU	39	J.N Mahto, R.K. Nayak
<u>3.</u>	Emerging Trends and Technology in Mechanical Engineering (ET ² ME)	08 – 12 July, 2019	Dr. kailash Jha IIT (ISM)Dhanbad, Dr. Niranjan Kumar IIT (ISM)Dhanbad	33	Dr. Sanjay Kr Singh (Convener) Dr. Som Nath Saha, Dr. Sunil Kumar (Coordinator)
<u>4.</u>	International Workshop on Waterjet processes and related 4.0 applications,	December 7-8, 2019.	-	-	Department of mechanical Engg, IIT (ISM), Dhanbad in collaboration with BIT Sindri

**SWAYAM / NPTEL / MOOCs course participated by Faculty and students.**

<i>Sl.</i>	<i>Name of Course</i>	<i>Date</i>	<i>No. of Faculty members participated</i>	<i>No. of students participated</i>
1.	<i>Digital transformation in teaching and learning process</i>	<i>16 March-30 March</i>	<i>12</i>	<i>0</i>
2.	<i>Digital transformation in teaching and learning process</i>	<i>6 April-22 April</i>	<i>10</i>	<i>0</i>
3.	<i>Capability Development Certificate for successfully completing the E-learning Programme on Basic TQM,</i>	<i>April 20, 2020</i>	<i>1</i>	<i>0</i>
4	<i>Capability Development Certificate for successfully completing the E-learning Programme on Industry 4.0</i>	<i>April 20, 2020</i>	<i>1</i>	<i>0</i>
5	<i>Capability Development Certificate for successfully completing the E-learning Programme on MS Office</i>	<i>May 11, 2020</i>	<i>1</i>	<i>0</i>
6	<i>Capability Development Certificate for successfully completing the E-learning Programme on Lifting Tools and Tackle</i>	<i>May 12, 2020</i>	<i>1</i>	<i>0</i>
7.	<i>Capability Development Certificate for successfully completing the E-learning Programme on Heat treatment of steel</i>	<i>April 17, 2020</i>	<i>1</i>	<i>0</i>
8	<i>Capability Development Certificate for successfully completing the E-learning Programme on Measuring instrument</i>	<i>April 17, 2020</i>	<i>1</i>	<i>0</i>
9	<i>Capability Development Certificate for successfully completing the E-learning Programme on Compressor</i>	<i>April 17, 2020</i>	<i>1</i>	<i>0</i>
10	<i>National Webinar on Virtual lab, SPIU, UP</i>	<i>April 16, 2020</i>	<i>1</i>	<i>0</i>

**Research Project**

<u>Sl</u>	<u>Name of researcher</u>	<u>Topic of research</u>	<u>Sponsoring Authority</u>	<u>Sponsorship Amount</u>
<u>1.</u>	<i>Dr. Som Nath Saha (PI) and Dr. Sanjay Kumar Singh (Co-PI)</i>	<i>Design & development of a solar powered hydraulically boosted three wheeled passenger vehicle.</i>	<i>TEQIP-III under CRS scheme</i>	<i>1547000/-</i>

Departmental Laboratory Details

<u>S.No.</u>	<u>Name of the Laboratory</u>
<i>1</i>	<i>Hydraulics & fluid mechanics lab</i>
<i>2</i>	<i>Heat engine & thermodynamics lab</i>
<i>3</i>	<i>Heat & mass transfer lab</i>
<i>4</i>	<i>Aerodynamics lab</i>
<i>5</i>	<i>Solar energy lab</i>
<i>6</i>	<i>Material testing lab</i>
<i>8</i>	<i>Automobile lab</i>
<i>9</i>	<i>Workshop</i>
<i>10</i>	<i>CAD/CAM lab</i>

Name of new laboratory developed with details.

The Siemens CoE in Manufacturing, established in 2018 at BIT Sindri, operates with a primary focus of creating a robust technical education eco-system through its experience in industrial products and services. There are sophisticated Laboratories designed for Mechanical engineering i.e. Design and Validation, Advanced Manufacturing, Test and Optimization, Automation, Mechatronics, CNC Machines, CNC Controller, Robotics, Rapid Prototyping that provides opportunity for promising innovations. This multi-faceted unique centre offers skill development

courses, Internships, Research and Development assistance and Industrial consultancy services across various sectors.



Advanced Manufacturing Lab



Robotics lab



CNC Lathe



Electrical Engineering Department

The Department of Electrical Engineering is one of the major Departments of BIT Sindri since its inception in 1949. The department offers four years B.Tech. degree course and two years postgraduate program is also offered leading to M.Tech. degree with specialization in Control System and Power System.

The Department has continuously evolved along with the needs of industry and academia without compromising on its core principles reflected in the Vision and Mission of the Department. Outcome based teaching learning process has been successfully adopted by the Department. The Department has a healthy blend of young and experienced faculty members, all of whom display high levels of enthusiasm and dedication. Apart from teaching and research, the faculties are actively engaged in upgrading their technical and pedagogical skills by attending relevant training programs as and when needed.

The Department firmly believes in imparting a strong hands-on flavour to its graduates, and therefore places emphasis on the laboratory component, vocational training, internships and projects. The Department has well equipped laboratories and simulation software required for undergraduate and postgraduate programs. Under the state-of-art SIEMENS Centre of Excellence Facility, the students and the faculty of the Department undergo regular training on industrial automation. The important laboratories of the Department include: Power System Lab, Power Electronics Lab, Control System Lab, Electrical Machines Lab, Instrumentation Lab, Computer Lab and Electrical Workshop. The Department is also looking after the electrical sub-station of the institute which is responsible for maintaining the 14 Km distribution line of the BIT campus. The prestigious million-volt Atkinson High Tension Laboratory of the department is considered as first of its kind in India in the yesteryears.

The Department has also an active and strong alumni network. Many alumni of the department hold prominent positions in academic institutions, PSUs, research laboratories and government organizations.

Vision and Mission of department

Vision of the Department

To emerge as a globally recognized centre in the field of Electrical Engineering to provide valuable human resource and ambience for innovative research for sustainable development of industry and society.

Mission of the Department: -

- To offer state-of-the-art undergraduate, post graduate and doctorate programmes by providing a conducive environment towards outcome-based teaching learning process with knowledge and skill creation, suitable for contemporary and future needs of industry.*
- To promote creative ambience in order to generate new knowledge by conducting quality research in collaboration with Electrical, Electronics and allied industries.*



3. To bridge the gap between industry and academia by framing curriculum and syllabi based on industrial and societal needs so that competency of the students matches the upcoming challenges in education, profession and life.
4. To instil moral and ethical values among the students through holistic personality development so as to ensure human intellectual capacity to its full potential.

Publication by faculty members and students

Faculty Name	Title	International Journal and Conferences	ISSN/DOI
Dr. Pankaj Rai	Optimum generation of solar PV system using grey wolf optimization method	7 th Intl. Conference on Research Developments in Applied Science, Engg. And Management, 15-16 th June 2019	
	Modeling and control of dynamic battery storage system using hybrid grid	Energy Storage, Accepted Feb., 2020	DOI:10.1002/est2.146
Dr. R. P. Gupta	Performance Evaluation of PV module with battery storage in microgrid	Nanoelectronics, circuits and communication systems (NCCS) 2018, Lecture Notes in Electrical Engineering Vol. 642, pp:197-217, 2020	
Mr. Biswaranjan Mishra	Optimal Placement of PMUs for Power System State Estimation	2019IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS)	DOI: 10.1109/ICSETS.2019.8745327
Mrs. Kumari Sarwagya	Detection and Classification of Faults in Distribution System Using Signal Processing Techniques	IEEE- International Conference on Computer, Electrical & Communication Engineering, Feb. 2020, Kolkata.	
Ramesh Devarapalli	Modeling and control of dynamic battery storage system using hybrid grid	Energy Storage, Accepted Feb., 2020	DOI:10.1002/est2.146
	A Framework for H2/H ∞ Synthesis in Damping Power Network Oscillations with STATCOM.	Iran J Sci Technol Trans Electr Eng. 2020;44(2):927-948.	DOI:10.1007/s40998-019-00278-4
	A hybrid modified grey wolf optimization-sine cosine algorithm-based power system stabilizer parameter tuning in a multimachine power system	Optimal Control Applications and Methods.	DOI:10.1002/oca.2591
	Interval Modeling of Riverol-Pilipovik Water Treatment Plant and Its Model Order Reduction	In: Giri VK, Verma NK, Patel RK, Singh VP, eds. Computing Algorithms with Applications in Engineering. Algorithms for Intelligent Systems. Springer; 2020:361-367	DOI:10.1007/978-981-15-2369-4_30
	Application of Modified Harris Hawks Optimization in Power System Oscillations Damping Controller Design	In: 2019 8th International Conference on Power Systems (ICPS). ; 2019:1-6.	DOI:10.1109/ICPS48983.2019.9067679
	Optimal Parameter Tuning of Power Oscillation Damper by MHHO Algorithm.	In: 2019 20th International Conference on Intelligent System Application to Power Systems (ISAP). ; 2019:1-7.	DOI:10.1109/ISAP48318.2019.9065988



	<i>Enhancing Oscillation Damping in a Power Network using EWOA Technique.</i>	<i>In: 2019 International Conference on 'Emerging Trends for Smart Grid Automation and Industry 4.0'.,2019</i>	
	<i>Impact of Energy systems accumulation on power system stability and stabilization methods.</i>	<i>In: 11th International Exergy, Energy and Environment Symposium; 2019.</i>	
	<i>Salp Swarm Algorithm for solving the Economic Dispatch of Real Power Generation by Considering Generator Constraints.</i>	<i>In: Innovations in Power, Energy and Intelligent Control Systems; 2019.</i>	
Mr. Matta Mani Sankar	<i>Performance Evaluation of PV module with battery storage in microgrid</i>	<i>Nanoelectronics, circuits and communication systems (NCCS) 2018, Lecture Notes in Electrical Engineering Vol. 642, pp:197-217, 2020</i>	
Dr. Kaushik Paul	<i>Optimal Rescheduling of Real Power to mitigate Congestion Using Gravitational Search Algorithm</i>	<i>Turkish Journal of Electrical and Computer Engineering, Vol. 27, pp. 2213-2225, 2019.</i>	<i>DOI:10.3906/elk-1708-91</i>
	<i>Congestion Control by Optimal Engagement of Distribution Generation Using Hybrid Evolutionary Algorithm</i>	<i>International Journal of Innovative Technology and Exploring Engineering, Vol.8. No.12. pp.3329-3336. 2019</i>	<i>DOI:10.35940/ijitee.L2828.1081219</i>
	<i>Optimal Rescheduling Of Real Power To Mitigate Congestion Using Elephant Herd Optimization</i>	<i>Intelligent Computing in Control and Communication (ICCC 2020), Srikakulam, India, 2020 pp. 1-10</i>	
	<i>Optimal Scheduling for Delay Management in Railway Network using Hybrid Bat Algorithm</i>	<i>Intelligent Computing in Control and Communication (ICCC 2020), Srikakulam, India, 2020 pp. 1-12</i>	

Workshops, seminars & Guest Lectures conducted under the department.

<i>Sl. No.</i>	<i>Name of event</i>	<i>Date</i>	<i>Name of delegates</i>	<i>No. of participants</i>	<i>Name of Key organizers</i>
1.	<i>One Day All India Workshop on "Innovations for Sustainable Energy Systems"</i>	<i>21st Sept 2019</i>	<i>1. Mr. S. Rajoria , GM, TATA Collieries, Jamadova (Chief guest)</i> <i>2. Sri Chitaranjan Choudhary, Ex GM IISCO-SAIL, Chasnala (Guest of Honour)</i> <i>3. Dr. S. K. Singh, Honorary Secretary, IEI & Chief Scientist, CSIR-CIMFR, Dhanbad.</i>	<i>60</i>	<i>1. Department of Electrical Engineering, BIT Sindri</i> <i>2. TEQIP III, BIT Sindri</i> <i>3. The Institution of Engineers (India),</i>



			<p>4. Dr. D. V. Rajan, Superintending Engineer (Electrical, DVC), Durgapur Steel Thermal Power Station (Keynote Speaker)</p> <p>5. Prof. V. Mukherjee, Associate Professor, Department of EE, IIT(ISM) Dhanbad (Keynote Speaker)</p> <p>6. Prof. Gauri Sankar, Assistant Professor, Department of EE, IIT(ISM) Dhanbad (Keynote Speaker)</p> <p>6. Mr. Anil Rai, GM, IISCO-SAIL, Chasnala (Chief guest for the valedictory session)</p>		<p>Dhanbad Local Centre</p> <p>4. CSIR-CIMFR, Dhanbad</p>
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SWAYAM / NPTEL / MOOCs course participated by Faculty and students.

Sl.	Name of course	Date	No. of faculty member participated	No. students participated
1	NPTEL: Introduction to Smart Grid	Jul-Sept 2019	3	-
2	NPTEL: DC Microgrid	Jul-Sept 2019	1	-
3	NPTEL: Advance power electronics and control	Jan-March 2020	1	-
4	NPTEL: Power quality improvement technique	Jan-March 2020	1	-
5	SWAYAM: Digital Transformation in Teaching Learning Process	16th to 30th March 2020	3	-
6	SWAYAM: Digital Transformation in Teaching Learning Process	6th to 22nd April 2020	22	-
7	NPTEL: Recent advances in transmission insulator (Enrolled)	27th Jan -21st Feb 2020	-	3
8	NPTEL: Electric Vehicles-Part 1(Enrolled)	24th Feb 2020	-	1
9	SWAYAM: Linear Dynamical System (Enrolled)	27 Jan 2020	-	1



10	SWAYAM: Non-linear system analysis	27 Jan 2020	-	1
11	SWAYAM: Discrete time signal processing	27 Jan 2020	-	1
12	SWAYAM: Principles of communication system-1	27 Jan 2020	-	1
13	SWAYAM: Arduino	13 April 2020	-	1
14	SWAYAM: C and C++	11 March 2020	-	1
15	SWAYAM: Java	25 March 2020	-	1
16	SWAYAM: Introduction to Managerial Economics	25/12/2019	-	1
17	NPTEL: Digital Signal Processing (Enrolled)	Jan 2020	-	1
18	NPTEL: Electric machine(Enrolled)	Jan 2020	-	1
19	TCS iON: Career Edge-Knockdown the Lockdown (Enrolled)	25 Apr 2020- 05 May 2020	-	3
20	Learn digital with google: The Fundamentals of Digital Marketing	30/04/2020	-	1
21	TCS: Career Edge-Knockdown the Lockdown	25 Apr 2020- 05 May 2020	-	1
22	AICTE: Digital marketing		-	1
23	AICTE: MATLAB Onramp		-	1
24	UpGrad: Invest India	12 th May 2020	-	1

Research Project

Sl.	Name of Researcher	Topic of Research	Sponsoring Authority	Sponsoring Amount
1	Mr. Biswaranjan Mishra	“Linear State Estimation based on PMU Measurements”	NPIU(TEQIP-III)	₹ 6,53,000
2	Mr. Ramesh Deverapalli	“Controller design for interval-modeled RiverolPilipovik water treatment plant.”	NPIU(TEQIP-III)	₹ 2,65,000
3	Mr. Suman Ranjan	“Design and modelling of microring resonator based biosensor”	NPIU(TEQIP-III)	₹ 14,96,000

Industrial Visit

<i>Sl.</i>	<i>Name of Industry</i>	<i>Date of Visit</i>	<i>Number of students</i>	<i>Name of Professor In Charge Visited</i>
1	DVC 132/33/11kV Electrical Sub station, Chasnalla	28 Feb 2020	30	Avinash Mishra
2	DVC 132/33/11kV Electrical Sub station, Chasnalla	1 March 2020	35	Avinash Mishra





Departmental Laboratory Details

<i>Sl</i>	<i>Name of Laboratories</i>
<i>1</i>	<i>Electrical Technology Lab/BEE Lab</i>
<i>2</i>	<i>Network Lab</i>
<i>3</i>	<i>Electrical Machines Lab</i>
<i>4</i>	<i>Measurements & Instrumentation Lab</i>
<i>5</i>	<i>Computational Lab</i>
<i>6</i>	<i>Micro Processor & Microcontroller Lab</i>
<i>7</i>	<i>Control Systems Lab</i>
<i>8</i>	<i>Power Electronics Lab</i>
<i>9</i>	<i>PPAS Lab</i>
<i>10</i>	<i>Electrical Workshop</i>
<i>11</i>	<i>Power System Lab</i>
<i>12</i>	<i>Project Lab</i>

Name of new laboratory developed with details.

Computational Laboratory: This Laboratory is well equipped with licensed software such as ETAP for students as well as faculties for both academic as well as research purposes.

Special achievements by Department, Faculty Members or Students

Innovative Student Projects:

Autonomous Drone for Drone Delivery Service:

Abhineet Mishra has also been working extensively on another project centered around autonomous drone. He, along with his team, has developed autonomous drone system for the Drone Delivery Start-up. The drone has the capability to identify and track different objects and sense the surrounding which was made possible using Computer Vision. It has got GPS inbuilt technology which helps in going from one place to another without user's intervention and also it has the capability to avoid obstacles in air.



Alumni interaction

Department of Electrical Engineering has a high regard for its Alumni and firmly believes that the support and feedback of the Alumni is vital for the all-round growth of the department. In this connection the department periodically arranges interaction of Alumni with students and faculty members. The details of such recent interactions are given here.

Interaction with 1978 batch Alumnus:

Shri Janardhan Choudhary, Director (Technical), NHPC, a 1978 entry batch Alumnus has visited the department on 27/11/2019. Interactive session has been held with the faculty members of the department with Shri Choudhary with an agenda to identify the curricular gaps.

Shri Choudhary also interacted with the B. Tech. III semester students. During the session he advised the students to improve their soft skills and also stressed on the importance of GATE examination. Shri Choudhary also patiently answered many queries raised by the students regarding preparation of technical interview for core engineering companies.



Interaction with 1969 batch Alumni:

Shri A. K. Bose, Shri K. N. Choudhary and Shri H. K. Mishra, 1969 batch Alumni members visited the department on 08/11/2019. Interactive sessions were held with the students and faculty members.





Production Engineering Department

The Department of Production Engineering, first in Asia, was started in the year 1955. A multidisciplinary academic program comprises of 54 intakes to the four years B.Tech. program in Production Engineering. The department has established links with the industries, R&D organizations, consultancy organizations and academic institutes in the region in furtherance of the cause of manufacturing engineering. The faculty members are also actively engaged in the R & D and have a large number of publications. The main objective of production engineering is the integration of technology with management in planning and controlling the design, development and operation of manufacturing system in accordance with recent technology. The curriculum of Production engineering encompasses the contents of industrial management, casting technology, machining technology, physical and mechanical joining processes, tool design, metrology, manufacturing automation and rapid prototyping. In a typical industry, once the design is realized, production engineering concepts regarding work-study, ergonomics, operation research, tooling, manufacturing management, materials management, production planning, transportation etc., play important roles inefficient production processes.

Vision and Mission of Department

Vision

To become a centre of repute striving continuously towards providing quality education, research and innovation in the field of Production and Industrial Management.

Mission

- To provide quality education at both undergraduate and post graduate levels.*
- To produce engineering graduates to meet the demands of industries and R&D organizations.*
- To emphasize on integrating manufacturing technology with industrial management.*
- To impart latest technological knowledge to students by continuous development of curricula and faculty.*
- To contribute to the country and the society at large by enhancing the interaction between academia and industries.*

**Faculty Members Journals**

Sl.	Title of the paper	Name of the journal in which publication has been made	Vol./No.	Publication Year	Pages
1.	Study of Casting Defects by Varying Molding Sand Properties and Temperature	International Journal of Engineering Science Invention	Volume 6, Issue 11	Nov 2017	18-25
2.	Implementation of Poka Yoke in Needle Bearing Assembly Process	International Journal of Engineering Science Invention	Volume 6, Issue 11	Nov 2017	01-10
3.	Experimental analysis and optimization of surface roughness ,material removal rate for various process parameter in CNC miling	International Journal of advance Research in science and engineering	Vol-06	July,2017	
4.	Influence of Filler Wire Diameter on Mechanical and Corrosion Properties of AA5083-H111 Al-Mg Alloy Sheets Welded Using an AC Square Wave GTAW Process	Trans Indian Inst Met	71: 1975	April, 2018	
5.	Condition Based Maintenance and Machine Diagnostics System for Heavy Duty Earth Moving Machinery	International Journal of Science, Engineering and Technology (IJSET)	Volume 6, Issue 5	September-October 2018	227-236
6.	Optimization of the Process Parameters for MIG Welding of Dissimilar Welding Using Taguchi Method	International Journal for Research in Engineering Application & Management(IJREM)	Volume-4, Issue-8	Nov 2018	164-169
7.	Effect of Process Parameters of Weld Joints on Submerged Arc Welding	International Journal for Research in Engineering Application & Management (IJREAM)	Volume-4, Issue-8	Nov 2018	188-194
8.	Study the Effect of Tool Rotational Speed and Welding Speed on Mechanical Properties of Two Different Welded Aluminum Alloy	International Journal of Science, Engineering and Technology (IJSET)	Volume-6, Issue-6	November-December 2018	256-268
9.	Optimization of TIG Welding parameters for improvement of strength and hardness	International Journal for research in Engineering application and management (IJREAM)	Volume 04, Issue 08	Nov 2018	381-387
10.	A multi objective optimum design approach for rolling element bearing	International Journal of Interactive Design and Manufacturing	12	2018	1095–1108
11.	A Comparative Study on Mechanical and Physical Characteristics of Al-SiC and Al-SiC-Egg Composites fabricated by Stir Casting Process	International Journal for Research in engineering application and management	Vol-04 Issue-08	2018	
12.	Laser surface remelting of Ti and its alloys for improving surface biocompatibility of orthopaedic implants	Materials Technology: Advanced Performance Materials	Vol 33 Issue 2	2018	106-118



13.	<i>Productivity Improvement of Continuous Casting Through Utilization of Caster Speed Using Goal Programming Technique</i>	<i>International Journal of Advanced Scientific Research and Management,</i>	<i>Volume 3 Issue 12,</i>	<i>Dec 2018</i>	<i>1-4</i>
14.	<i>Analysis and Optimization of surface roughness and kerf width in WEDM for SS304 using Taguchi design of experiment</i>	<i>International Journal for Research in Engineering Application & Management(IJREM)</i>	<i>Volume-4, Issue-11</i>	<i>Feb 2019</i>	<i>298-302</i>
15.	<i>Challenge and opportunities of supply chain management in Indian automobile industries</i>	<i>International Journal for Research in Engineering Application & Management (IJREAM)</i>	<i>Volume-4, Issue-11</i>	<i>Feb 2019</i>	<i>439-441</i>
16.	<i>Optimization of process parameter based in WEDM of SS304 by using Taguchi based Grey Relational Analysis</i>	<i>International Journal of Research and Analytical Reviews</i>	<i>Volume 6, Issue 2</i>	<i>June,2019</i>	<i>479-480</i>
17.	<i>Fabrication of component using ABS material by 3-D printer and compare their mechanical and physical characteristics</i>	<i>International Journal of Research and Analytical Reviews</i>	<i>Vol-06, Issue-02</i>	<i>June,2019</i>	<i>691-701</i>
18.	<i>Study of Mechanical and Thermal properties of Aluminium alloy weldment welded by resistance spot welding</i>	<i>International Journal of Research and Analytical Reviews</i>	<i>Volume 6 Issue 2</i>	<i>June, 2019</i>	
19.	<i>Optimization of process parameter in WEDM of Ti6Al4V by using Taguchi based grey relational analysis</i>	<i>International Journal for Research in Engineering Application & Management (IJREAM)</i>	<i>Volume-05 Issue-09</i>	<i>December 2019</i>	<i>221-226</i>
20.	<i>Modelling and Optimization of Rolling Process: A Muti-objective approach</i>	<i>Journal of Advanced Manufacturing Systems</i>		<i>2019</i>	
21.	<i>Mechanical Characterization of GPL/Polymer Nanocomposite Structure using Finite Element Analysis and SCILAB</i>	<i>International Journal of Applied Engineering Research</i>	<i>14</i>	<i>2019</i>	<i>69-7</i>
22.	<i>Experimental Investigation of Cutting Parameters in Plasma Arc Cutting Using Advanced Optimization Approach: A Comprehensive Review</i>	<i>International Journal of Applied Engineering Research</i>	<i>Volume 14, Number 13</i>	<i>2019</i>	<i>27-30</i>
22.	<i>Thermal Model for Analysis of Hard Turning of Titanium alloy by Coated carbide Tool</i>	<i>International Journal for Research in Engineering Application & Management</i>	<i>Vol-05, Issue-09,</i>	<i>Dec 2019</i>	<i>70-82</i>
23.	<i>Optimization of Process Parameter in EDM for Titanium Based Alloy by Using Taguchi Based Grey Relational Analysis and Metaheuristics</i>	<i>International Journal for Research in Engineering Application & Management</i>	<i>Vol-05, Issue-09,</i>	<i>Dec 2019</i>	<i>70-82</i>



24.	Vendor selection with and without effect of risk cost.	International Journal for Research in engineering application and management	Vol-04	2019	
25.	Study of influencing factors on mechanical properties of wire arc additive manufacturing	International Journal of Research and Analytical Reviews	Vol-06 Issue-08	2019	

Conferences

Sl.	Title of the paper	Name of the Conference in which publication has been made	Vol./No.	Publication Year	Pages
1	Maintenance Prediction using Diagnostic Expert Systems for Mine Hydraulic Excavator	“33rd National Convention of Environmental Engineers on Status of Technological Advancement to Meet the Environmental Norms for Indian Mining and Allied Industries” at Directorate General of Mines and Safety (DGMS), Dhanbad.		24th -25th August 2017	158-16
2	Synthesis of Al-Y composite by spark plasma sintering and analysis of its tensile properties by FEM”.	Advances in Materials & Processing: Challenges & Opportunities		Aug,2017	
3	Reevaluation of Ball-Race Conformity Effect on Rolling Element Bearing Life Using PSO	International conference on computational intelligence and data mining	711	11th-12th nov 2017	2194-5357
4	New Generation Robot: A Manufacturing Transformer	“National Seminar on Techno-Nationalistic Interventions for Enhancing Innovativeness” at B.I.T. Sindri, Dhanbad.		11th Decem ber 2017	
5	Green Supply Chain Management in Indian Automotive Industry: Complexities and Challenges	“National Conference on Science and Technology of Special Steels & Nanomaterials at B.I.T. Sindri, Dhanbad.		17th-18th Febru ary 2018	
6	New Generation Robot- Animal Robot to Humanoid	Workshop on “Manufacturing Automation, Robotics and Factory of Future” (MARFF 2018) under TEQIP-III at B.I.T. Sindri, Dhanbad.		3rd -7th October 2018	
7	Geodesic approach for trajectory planning of mobile robot manipulators	International conference on recent innovation and development in mechanical engineering, NIT Meghalaya,	IOP journal	8th-10th NOV 2018	
8	A Multi-objective Approach to Study the Effects Of Ball Race Conformity on Optimum Design of Rolling Element Bearing Using Metaheuristics	International conference on advanced computing & intelligent Engineering	Published by Springer	22 nd -24 th dec 2018	
9	Estimation of Residual Stress and Deformation of Laser Deposited Tracks of Ni-5Mo-5Al Powder Using Thermo-Mechanical Finite Element Simulation	International Conference on Materials Science and Manufacturing Technology 2019 (ICMSMT 2019)	Published in the IOP Science: Material Science and Engineering	April 12 th -13 th , 2019	595-600



10	<i>Effect of process parameters on geometrical aspects in direct metal laser deposition of Ni5Mo5Al hard face coating</i>	<i>International Conference on Materials Science and Manufacturing Technology 2019 (ICMSMT 2019)</i>	<i>Published in the IOP Science: Material Science and Engineering</i>	<i>April 12th - 13th, 2019</i>	<i>617-621</i>
11	<i>Experimental Investigation on Effect of Cold and Hot Reciprocating Wire TIG Welding on Carbon Steel</i>	<i>6th International Conference on Production and Industrial Engineering (CPIE-2019)</i>	<i>Published by SCOPUS</i>	<i>June 8th - 10th 2019</i>	
12	<i>Design and Analysis of MFC Based Energy Harvesting Systems</i>	<i>6th International Conference on Production and Industrial Engineering (CPIE-2019)</i>	<i>Published by SCOPUS</i>	<i>June 8th - 10th 2019</i>	
13	<i>An Efficient Robotic Manipulator Trajectory Planning using Modified Firefly Algorith</i>	<i>ICAMME- 2019, KIIT university, odisha</i>	<i>Published by Springer</i>	<i>MARCH 15-17, 2019</i>	
14	<i>Analysis of Different Types of Micro Grains in Stick Welded Mild Steel Plates</i>	<i>ICAMME-2019, KIIT university, odisha</i>	<i>Published by Springer</i>	<i>MARCH 15-17, 2019</i>	
15	<i>Process Parameter Optimization in EDM: A Multiobjective Approach using Metaheuristic approach</i>	<i>ICAMME- 2019, KIIT university, odisha</i>	<i>Published by Springer</i>	<i>MARCH 15-17, 2019</i>	
16	<i>Multi-objective Optimization and Experimental Investigation of CNC Oxy-Fuel Gas Cutting Parameters Using Taguchi Coupled Data Envelopment Analysis</i>	<i>Conference on Recent Advances in Mechanical Infrastructure (ICRAM-2019)</i>	<i>Published by Springer</i>	<i>20-21 April, 2019</i>	
17	<i>Comparative Evaluation for Studying the Parametric Influences on Quality of Electrode Using Taguchi Method Coupled with MOORA, DFA, and TOPSIS Method for Electrochemical Machining</i>	<i>Conference on Recent Advances in Mechanical Infrastructure (ICRAM-2019)</i>	<i>Published by Springer</i>	<i>20-21 April, 2019</i>	
18	<i>Creation of Nano-structured oxide Layers through anodization on laser-remelted Ti6Al4V surface for improvement of Its biofunctionalities</i>	<i>5th International Conference on Nanotechnology for Better Living (NBL-2019), Srinagar, India</i>		<i>2019</i>	
19	<i>Application of a MCDM Tool for Selection of 3D Bioprinting Processes</i>	<i>1st International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS-19), Rourkela, India</i>		<i>2019</i>	
20	<i>Effect of process parameters on geometrical aspects in direct metal laser deposition of Ni5Mo5Al hardface coating</i>	<i>First International Conference on Materials Science and Manufacturing Technology (ICMSMT 2019), Coimbatore, India</i>		<i>2019</i>	
21	<i>Estimation of residual stress and deformation of laser deposited tracks of Ni-5Mo-5Al powder using thermo-mechanical finite element simulation</i>	<i>First International Conference on Materials Science and Manufacturing Technology (ICMSMT 2019), Coimbatore, India</i>		<i>2019</i>	



22	Experimental investigation on effect of cold and hot reciprocating wire TIG welding on carbon steel	6th International Conference on Production and Industrial Engineering (CPIE-2019) at NIT Jalandha		Aug,2019	
23	IoT Based Maintenance System for Mine Hydraulic Excavators	“International Symposium on 5G and Beyond for Rural Upliftment”	Organized by Department of Electronics Engineering, IIT(ISM) Dhanbad and BIT Sindri	Feb 8 th -9 th 2020	164-170

Students Publications

Journals

Sl.	Title of the paper	Name of the journal in which publication has been made	Vol./No.	Publication Year	Pages
1.	Study of Casting Defects by Varying Molding Sand Properties and Temperature	International Journal of Engineering Science Invention	Volume 6, Issue 11	Nov 2017	18-25
2.	Implementation of Poka Yoke in Needle Bearing Assembly Process	International Journal of Engineering Science Invention	Volume 6, Issue 11	Nov 2017	01-10
3.	Optimization of the Process Parameters for MIG Welding of Dissimilar Welding Using Taguchi Method	International Journal for Research in Engineering Application & Management(IJREM)	Volume-4, Issue-8	Nov 2018	164-169
4.	Effect of Process Parameters of Weld Joints on Submerged Arc Welding	International Journal for Research in Engineering Application & Management (IJREAM)	Volume-4, Issue-8	Nov 2018	188-194
5.	Study the Effect of Tool Rotational Speed and Welding Speed on Mechanical Properties of Two Different Welded Aluminum Alloy	International Journal of Science, Engineering and Technology (IJSET)	Volume-6, Issue-6	November-December 2018	256-268
6.	A Comparative Study on Mechanical and Physical Characteristics of Al-SiC and Al-SiC-Egg Composites fabricated by Stir Casting Process	International Journal for Research in engineering application and management	Vol-04 Issue-08	2018	
7.	Optimization of process parameter based in WEDM of SS304 by using Taguchi based Grey Relational Analysis	International Journal of Research and Analytical Reviews	Volume 6, Issue 2	June,2019	479-480
8.	Fabrication of component using ABS material by 3-D printer and compare their mechanical and physical characteristics	International Journal of Research and Analytical Reviews	Vol-06, Issue-02	June,2019	691-701



9.	Thermal Model for Analysis of Hard Turning of Titanium alloy by Coated carbide Tool	International Journal for Research in Engineering Application & Management	Vol-05, Issue-09,	Dec 2019	70-82
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11.	Vendor selection with and without effect of risk cost	International Journal for Research in engineering application and management	Vol-04	2019	
12.	Study of influencing factors on mechanical properties of wire arc additive manufacturing	International Journal of Research and Analytical Reviews	Vol-06 Issue-08	2019	

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Sl.	Title of the paper	Name of the Conference in which publication has been made	Vol./No.	Publication Year	Pages
1.	Estimation of Residual Stress and Deformation of Laser Deposited Tracks of Ni-5Mo-5Al Powder Using Thermo-Mechanical Finite Element Simulation	International Conference on Materials Science and Manufacturing Technology 2019 (ICMSMT 2019)	Published in the IOP Science: Material Science and Engineering	April 12 th - 13 th , 2019	595-600
2.	Effect of process parameters on geometrical aspects in direct metal laser deposition of Ni5Mo5Al hard face coating	International Conference on Materials Science and Manufacturing Technology 2019 (ICMSMT 2019)	Published in the IOP Science: Material Science and Engineering	April 12 th - 13 th , 2019	617-621
3.	Experimental Investigation on Effect of Cold and Hot Reciprocating Wire TIG Welding on Carbon Steel	6 th International Conference on Production and Industrial Engineering (CPIE-2019)	Published by SCOPUS	June 8 th - 10 th 2019	
4.	Design and Analysis of MFC Based Energy Harvesting Systems	6 th International Conference on Production and Industrial Engineering (CPIE-2019)	Published by SCOPUS	June 8 th - 10 th 2019	
5.	Creation of Nano-structured oxide Layers through anodization on laser-remelted Ti6Al4V surface for improvement of Its biofunctionalities	5th International Conference on Nanotechnology for Better Living (NBL-2019), Srinagar, India		2019	
6.	Application of a MCDM Tool for Selection of 3D Bioprinting Processes	1st International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS-19), Rourkela, India		2019	
7.	Effect of process parameters on geometrical aspects in	First International Conference on Materials Science and Manufacturing		2019	



	<i>direct metal laser deposition of Ni5Mo5Al hardface coating</i>	<i>Technology (ICMSMT 2019), Coimbatore, India</i>		
8.	<i>Estimation of residual stress and deformation of laser deposited tracks of Ni-5Mo-5Al powder using thermo-mechanical finite element simulation</i>	<i>First International Conference on Materials Science and Manufacturing Technology (ICMSMT 2019), Coimbatore, India</i>		2019

Workshops, seminars & Guest Lectures conducted under the department.

Sl.	Name of Event	Date	Name of delegates along with their designation	No. of participants	Name of Key organizers
01	<i>Workshop on “Manufacturing automation robotics and factory of future”.</i>	<i>3rd-7th Oct 2018</i>	<i>MARFF-2018</i>	<i>60</i>	<i>Dr.Prakash kumar, Mr. Kashif Hasan Kazmi</i>
02	<i>Special Lecture on “Advanced Composite Materials”</i>	<i>19th September 2017</i>	<i>Dr. K.K. Singh from IIT (ISM)</i>	<i>100</i>	<i>Dr.Prakash kumar</i>
03	<i>Expert Lecture on “Advanced Manufacturing”</i>	<i>23rd February 2019</i>	<i>Dr. Somnath Chattopadhyaya</i>	<i>70</i>	<i>Dr.Prakash kumar</i>
04	<i>Expert Lecture on “Analytical and Finite Element Modeling of Laser Metal Processing”</i>	<i>26th March 2019</i>	<i>Dr. Shitanshu Sekhar Chakraborty, Scientist, CMERI, Durgapur</i>	<i>50</i>	<i>Dr.Prakash kumar & Dr. Sumanta Mukherjee</i>
05	<i>Expert Lecture on “Ingot Casting and New Development in Industries”.</i>	<i>6th January, 2020</i>	<i>Mr. Sumant Kumar, Executive Engineer, HEC, Ranchi</i>	<i>30</i>	<i>Dr.Prakash kumar & Mr. Anand Kumar</i>

SWAYAM / NPTEL / MOOCs course participated by Faculty and students.

Sl.	Name of Course	Date	No. of Faculty members participated	No. of students participated
01	<i>ICT Tools for Teaching, Learning Process & Institutes</i>	<i>13th - 17th January 2020</i>	<i>1</i>	<i>NA</i>
02	<i>Digital Transformation in Teaching Learning process</i>	<i>16th-30th March 2020</i>	<i>2</i>	<i>NA</i>
03	<i>Digital Transformation in Teaching Learning process</i>	<i>6th -22nd April 2020</i>	<i>6</i>	<i>NA</i>

Research Project

Sl.	Name of PI	Topic of research	Sponsoring Authority	Sponsorship Amount
01	<i>Dr. S. N. Panda</i>	<i>Investigation to fatigue and vibration characteristics of Rolling element bearing</i>	<i>AICTE (TEQIP-III, CRS)</i>	<i>8,30,000</i>
02	<i>Dr. Sumanta Mukherjee</i>	<i>Development of 3D Printed User-specific Assistive Devices for Persons with Disabilities in India</i>	<i>AICTE (TEQIP-III, CRS)</i>	<i>12,63,000</i>

03	Prof. Mukesh chandra	Design & Development of a Proof-of-Concept Model of a Doubly Curved Membrane based Space Structure	AICTE (TEQIP-III, CRS)	9,75,000
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Industrial Visits

S. No.	Name of Industry visited	Date of visit	Number of students present	Name of Professor In-charge visited
01	SAIL, Bokaro	2 nd March 2019	48 Students	Prof. Satish Kumar & Prof. Mukesh Chandra



Departmental Laboratory Details

Sl.	Name of Laboratories
01	Computer Aided Design/ Computer Aided Manufacturing
02	Welding
03	Metrology
04	Computer Application
05	Ergonomics and Work Study
06	Modern Manufacturing Process
07	Flexible Manufacturing System
08	Theory of Metal cutting and Forming
09	Production Workshop
10	Tool Design
11	Project Laboratory

Name of new laboratory developed with details.

Project laboratory: 3D Printer, 3D Scanner, Vibration Analyzer, High Performance Workstation with MSC Nastarn (Design and Simulation Software)



Special achievements by Department, Faculty Members or Student

- 1. Dr. Prakash kumar was involved as a Co-convener in an “International Workshop on Waterjet Processes and Related 4.0 Applications (7th-8th December 2019), organized by Department of Mechanical Engineering, IIT(ISM), Dhanbad, in collaboration with BIT Sindri (under the aegis of TEQIP-III, Twinning Activity).*
- 2. Dr. Prakash Kumar was involved as a Co-convener in an “International Workshop on Precision Engineering and Management” (15th January 2020), organized by Department of Mechanical Engineering, IIT(ISM), Dhanbad, in collaboration with BIT Sindri (under the aegis of TEQIP-III, Twinning Activity).*
- 3. Dr. Prakash Kumar was involved as an Expert Representative for Centre of Innovation, Incubation & Entrepreneurship (CIIE) of IIT(ISM) Dhanbad for Institution’s Innovation Council (IIC 2.0, 2019-20) from August 2019.*
- 4. Dr. Prakash Kumar was involved as a Convener, Institution’s Innovation Council (IIC) from August 2018*
- 5. Dr. Prakash Kumar was involved as a President, Institution’s Innovation Council (IIC 2.0) from September 2019*
- 6. Mr. Makes Chandra (Assistant Professor, NPIU) was involved as a Convener, Institution’s Innovation Council (IIC 2.0) from September 2019*
- 7. Dr. Surya Narayan Panda has been invited as keynote speaker in “Advances in Mechanical Engineering” on 25th-26th Feb 2019 at GCE, Keonjhar, Odisha.*
- 8. Dr. Surya Narayan Panda has been reviewer for journal “Mechanism and Machine Theory-Elsevier”.*
- 9. Dr. Sumanta Mukherjee has presented an invited lecture on 3D Printing of Assistive Devices at IIT Kharagpur on 10th February 2020.*





Metallurgical Engineering Department

Since 1956, B.I.T. Sindri has rich heritage of building and shaping world class metallurgists. Metallurgists of this department are consistently striving for the upliftment of the operative professors, interactive alumnus and enthusiastic students together comprise the metallurgical department. The alumni of this department are occupying top most positions in MNCs all over the world. Renowned metallurgists regularly visit our campus and metallurgical field. The Department is having a modern Computer Lab, Conference Hall & also a well furnished Library where various metallurgical books and journals are available. Department shows active participation in the technical and training programmes organized by institutes and various organization all across the country (NMD-ATM, TECHNICA COMPOSITE, organized by IIM SAIL, TATA STEEL, TATA MOTOR, MECON, IIT KGP, NML, RDCIS Ranchi.)

Vision and Mission of department:

Vision:

To make a centre of excellence in the field of metallurgical and materials engineering and also to train students to cater the needs of industries and research institution for sustainable development of the nation.

Mission of the department:

1. To provide globally competitive and high quality technical human resource in the field of metallurgical and materials engineering by preparing students with broad-based education at UG, PG, and Ph.D. levels.
2. For augmenting the research facility and become a leading innovation Centre contributing significantly towards development of need based technologies.
3. Enhancing the relationship between academia and industries for addressing the need of the mankind.

Publication by faculty members and students:

1. **Tvarit A. Patel** and Emila Panda, "Thickness induced microstructure, electronic structure and optoelectronic properties of Cu_2S films deposited by RF magnetron sputtering", **Journal of Applied Physics**, 2019, 126, 245101.



2. **Tvarit A. Patel** and Emila Panda, "Copper deficiency induced varying electronic structure and optoelectronic properties of Cu_{2-x}S thin films", *Applied Surface Science*, 2019, 488, 477.
- 3.
4. **Tvarit A. Patel** and Emila Panda, "Role of reducing agent and self-sacrificed copper-thiourea complex in the synthesis of precisely controlled Cu_{2-x}S microtubes", *Journal of Crystal Growth*, 2019, 505, 26-32.
5. **Sumit K. Sharma**, K. Biswas, A. K. Nath, I. Manna and J. Dutta Majumdar, *Wear Behavior of Laser Surface Melted Inconel 718*, *Lasers in Engineering* (in press)
6. **Sumit K. Sharma**, K. Biswas and J. Dutta Majumdar, *Effect of Heat Input on Mechanical and Electrochemical Properties of Electron-Beam-Welded Inconel 718*, *Journal of Material Engineering and performance*, 2020, doi.org/10.1007/s11665-020-04660-w.
7. **Sumit K. Sharma**, K. Biswas, and J. Dutta Majumdar, *Wear Behavior of Electron Beam Surface Melted Inconel 718*. *Procedia Manufacturing* 35 (2019) 866-873.
8. Soumyabrata Basak, **Sumit K. Sharma**, Kisor K. Sahu, Srikant Gollapudi, Jyotsna Dutta Majumdar, *Surface modification of structural material for nuclear applications by electron beam melting: enhancement of microstructural and corrosion properties of Inconel 617*, *SN Applied Sciences* (2019), doi.org/10.1007/s42452-019-0744-5.
9. Pradeep k. yadav, S N Panda, **Babul das**, *Optimization of process parameter in EDM for titanium based alloy by using taguchi based grey relation analysis and metaheuristics*, *International Journal for research in Engineering application and management*, 2019, vol-05, ISSN 2454-9150
10. Pradeep k. yadav, S N Panda, **Babul das**, *Thermal model for analysis of hard turning of titanium alloy by coated carbide tool*, *International Journal for research in Engineering application and management*, 2019, vol-05, ISSN 2454-9150
11. **S.Hembrom**, *Effect of green inhibitors in high carbon steel at different temperatures*, *International journal of research in engineering application and management*, Vol-04, Issue-01, jan 2019, ISSN-2279-9150
12. **S.Hembrom**, *Study on mechanical properties of different reinforcement on aluminium matrix composite*, *journal of engineering science*, vol.-11, Issue 5, may 2020, p 92-96
13. **S. Hembrom**, *A review: engineering application of metal matrix composites*, *International journal of scientific research and reviews*, vol.-08 Issue-01, 2019, P-1160-1167

Workshops, seminars & Guest Lectures conducted under the department.

S. No.	Name of Event	Date	Name of delegates along with their designation	No. of participants	Name of Key organizers
1	Understanding Metallurgy of Steel for its effective utilization	27-28 th October 2018	K.K.Keshri ,DGM, RDCIS Ranchi	65	Dr. B.N.Roy, Dr.A.K.Rajak, Sumit K. Sharma
2	<u>Nanoscale surface characterization by STM and PQMS analysis</u>	<u>8th - 12th Jan, 2020</u>	<u>Mr. Sumit Patil, Gitansh Kataria</u>	45	<u>Prof. B. N. Roy,</u> <u>Dr. A. K. Rajak,</u> <u>Tvarit Patel,</u> <u>Babul Das,</u> <u>M.Shukla</u>

**SWAYAM / NPTEL / MOOCs course participated by Faculty and students.**

<i>Sl.</i>	<i>Name of Course</i>	<i>Date</i>	<i>No. of Faculty members participated</i>	<i>No. of students participated</i>
<i>01</i>	<i>Digital Transformation in Teaching Learning Process</i>	<i>16th March to 30th March 2020</i>	<i>07</i>	

Research Project

<i>Sl.</i>	<i>Name of researcher</i>	<i>Topic of research</i>	<i>Sponsoring Authority</i>	<i>Sponsorship Amount</i>
<i>1.</i>	<i>Tvarit Patel</i>	<i>Synthesis of Cu-deficiency induced various Copper chalcogenides films for opto-electronic application</i>	<i>NPIU-MHRD, Government of India</i>	<i>7,40,000/-</i>

Departmental Laboratory Details:

- 1. Metallography Laboratory*
- 2. Degradation of materials Laboratory*
- 3. Thermodynamic and kinetics laboratory*
- 4. Extractive metallurgy laboratory*
- 5. Mineral dressing laboratory*
- 6. Fuel refractories and furnaces laboratory*
- 7. Foundry and Met. Laboratory*
- 8. Heat treatment Laboratory*
- 9. Met. Analysis Laboratory*



Civil Engineering Department

The Department of Civil Engineering was started in the year 1957. The department offers UG & PG courses with Soil mechanics, Foundation Engineering and Structural engineering as specialization. The department also offers adequate facilities for R&D work and thus provides a vital impetus in growth of the state. Both undergraduate and postgraduate are trained in computer applications of Civil Engineering and the latest softwares. The students of the department actively pursue R&D under the guidance of faculty members funded by state government.

Programme(s) offered:

B tech in Civil engineering
M.Tech- Soil & Foundation Mechanics
M.Tech- Structural Engineering

Vision and Mission of the department

VISION

To facilitate the continuous enhancement of technical expertise in civil engineering with ethical and moral value to meet innovative challenge in research and infrastructure for sustainable global development.

MISSION OF THE DEPARTMENT

To produce competent Civil Engineers

- M1 . By inculcating the advance knowledge and modern technology
- M2 . By promoting quality educations, research, and consultancy for industrial and societal needs
- M3 . By developing leadership qualities
- M4 . By providing human values, ethical and moral responsibility

Publications by faculty members and students

Prof. V.Pandey

1. Amit Kumar Gupta & V. Pandey. "Sesmic Analysis of High Rise Building with Shear Walls & Bracings" – *International Journal for Research in Applied Science & Engineering*



Technology (IJRASET).ISSN 2321 – 9563 IC Value 45.98 Impact Factor 7.177 Volume 7 Issue XI Nov. 2019

2. **Kisku, N., Rajhans, P., Panda, S. K., Pandey, V., and Nayak, S. (2020, April).** Microstructural investigation of recycled aggregate concrete produced by adopting equal mortar volume method along with two stage mixing approach. *In Structures (Vol. 24, pp. 742-753). Elsevier.*
- 3 **Kisku, N., Rajhans, P., Panda, S. K., Nayak, S., & Pandey, V. (2020).** Development of Durable concrete from C&D waste by adopting identical mortar volume method in conjunction with two-stage mixing procedure. *Construction and Building Materials, 256, 119361.*

Prof. R.V. Singh

1. Site Selection and Estimation of a sanitary landfill in B.I.T.Sindri : Vol 7 XI * 2019

Prof. Sheo Kumar

- 1) An experimental study on concrete using ferrochrome slag aggregate as partial replacement to coarse aggregate. published in IJRAR UGC approved(journal no. 43602) Vol.6 issue 2 date of publication : June 2019 2019-06-25

Prof. Jitu Kujur

1. Karmver and **Jitu Kujur** “Economical analysis and Design of Multi-storey Building (G+5) of Different shape of Same floor Area ”IJRAR Vol.6 issue 2 June 2019.
2. Manish Kumar, A. K. Sinha and **Jitu Kujur** “ Mechanical and Durability Studies on High volume Flyash concrete” accepted, *Structural Concrete*, 2020.

Prof. N.Kisku

1. Rajhans, P., **Kisku, N.**, Nayak, S., & Panda, S. K. (2020). Sustainable self compacting acid and sulphate resistance RAC by two stage mixing approaches. *Advances in concrete construction,9(1), 55-70.*
2. **Kisku, N., Rajhans, P., Panda, S. K., Pandey, V., and Nayak, S. (2020, April).** Microstructural investigation of recycled aggregate concrete produced by adopting equal mortar volume method along with two stage mixing approach. *In Structures (Vol. 24, pp. 742-753). Elsevier.*
- 3.**Kisku, N., Rajhans, P., Panda, S. K., Nayak, S., & Pandey, V. (2020).** Development of durable concrete from C&D waste by adopting identical mortar volume method in conjunction with two-stage mixing procedure. *Construction and Building Materials, 256, 119361.*

Prof. C.R.Sharma

Experimental study on characteristics strength of mortar and concrete by partial replacement of cement with rice husk ash and fly ash. June 2019

Workshop, seminars, and guest lectures conducted under the department.



<i>Sl no.</i>	<i>Name of event</i>	<i>date</i>	<i>Name of delegates along with their designations</i>	<i>No. of participants</i>	<i>Name of key organizer</i>
01.	<i>Water scenario of Dhanbad district: Emerging Challenges</i>	<i>22 July 2019</i>	<i>Mr. Amit Kumar, DC, Dhanbad</i>	<i>20</i>	<i>TEQIP-III</i>
02.	<i>Water resource Management: Shift from awareness to Consciousness</i>	<i>18 Dec- 19 Dec, 2019</i>	<i>Dr Deepankar saha, Ex, member CGWB, GoI Maj. Gen.B.B Sharma, VSM (RETD) Sri, n.k mathur, Ex member, cwc Dr. D.K singh, Ex advisor, NEC, GoI Dr. Rajesh Paul, Director, Excel Geometrics, Pvt, Limited</i>	<i>20</i>	<i>TEQIP-III</i>

SWAAYM/NPTEL/MOOC Course Participated by Faculty and Students

<i>Sl No.</i>	<i>Name of course</i>	<i>Date</i>	<i>No. Of faculty members participated</i>	<i>No. Of students participated</i>
01.	<i>Digital transformation in teaching Learning Process</i>	<i>06 April- 22 April 2020</i>	<i>18</i>	<i>-</i>

Research Projects

Industrial consultancy

<i>Sl.</i>	<i>Details of consultancy</i>	<i>Name of organization</i>	<i>Amount</i>
01.	<i>“Stability test and strengthening scheme of Warf wall “constructed at 5.0 Mtpa NLW Washery</i>	<i>BCCL</i>	<i>7,38,975/-</i>



	<i>Patherdih from BCCL, Civil Engg Deptt, Koyla Nagar, Dhanbad,</i>	
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Details of Testing works:

S. No.	Details of Testing	Name of organization	Amount
1.	<i>Properties of all building and construction materials Index Properties of Soil Characteristics of portable water</i>	<i>Jharkhand PWD Subsidiaries of CIL Subsidiaries of SAIL etc.</i>	<i>13251442/-</i>

8. Industrial Visits

Sl. NO.	Name of Industry Visited	Date of visit	Number of students present	Name of Prof. In-Charge visited
<i>1.</i>	<i>Water treatment plant</i>	<i>Oct,2018</i>	<i>125</i>	<i>Prof. N. Kisku Prof. Iqbal Sheikh</i>
<i>2.</i>	<i>ACC Cement plant</i>	<i>Sept,2019</i>	<i>120</i>	<i>Prof. N. Kisku</i>

Departmental laboratory details.

S. No.	Name of the laboratory
01.	<i>Building Construction & Material Lab</i>
02.	<i>Environmental Engineering Lab.</i>
03	<i>Soil Mechanics & Geotech. Engg. Lab.</i>
04	<i>Transportation lab</i>
05	<i>Strength of material lab</i>
06	<i>Structural analysis lab</i>
07	<i>Cement Concrete lab</i>
08	<i>Foundation Engg. Lab</i>
09	<i>Engineering Geology Lab</i>



Chemical Engineering Department

Chemical Engineering, one of the oldest disciplines at BIT Sindri was established in 1956 by Prof. K.P. Gupta, Fourth Director of BIT Sindri. It is considered as a premier centre for Chemical Engineering in India by industries as well as academia. The department offers a four-year B. Tech course and postgraduate program of M. Tech with specialization in Chemical Plant Design in Engineering. It has experienced and qualified faculties, associated with numerous industrial projects to promote research and development. The department has several well-equipped laboratories viz., Unit Operations, Process Control, Petroleum Refinery Engineering, Plastic Technology, Process Engineering, Chemical Engineering Thermodynamics. With talented and well-placed students, Department of Chemical Engineering holds a good association of its alumni all over the world.

Vision & Mission

Vision:	To create the environment in the department of Chemical Engineering for all round development of students so that they can compete in the global market.	
Mission:	1.	To impart quality technical education to UG and PG
	2.	To activate and pursue research in Thrust/Emerging Areas of Technology.
	3.	To provide consultancy services to Industries and entrepreneurs
	4.	To create qualified human resources to cater the needs of sound national economy through developmental activities.
	5.	To make the department a centre of excellence for research and development in Chemical Engineering and related fields.

Publication by faculty members and students

1. Mahendra Ram, M.K Mondal, Comparative study of native and impregnated coconut husk with pulp and paper industry waste water for fuel gas production *Energy*, 156, 2018, 122-131.



2. Mahendra Ram, MK Mondal, Investigation on fuel gas production from pulp and paper waste water impregnated coconut husk in fluidized bed gasifier via humidified air and CO₂ gasification, *Energy*, 178, 2019, 522-529.
3. Mahendra Ram, MK Mondal, Conversion of unripe coconut husk into refined products using humidified air in packed bed gasification column *Biomass Conversion and Biorefinery*, accepted, 2019.
4. Sachin Ramesh Rao Geed, Kulbhushan Samal, Harsh Srivastava, Bheemiseetty Kartheek. Study the performance of continuous bioreactor for the treatment of wastewater containing methyl parathion by isolated *Alcaligenes* species. *Journal of Environmental Chemical Engineering*, 2019, 1-7.
5. S Kumari, SHK Annamareddy, Treatment of garage wastewater using activated carbon made from khat (*Catha edulis*) and neem (*Azadirachta indica*) leaves, *Environment, Development and Sustainability*, 2019, 22 (4), 2967-2978.
6. Suneeta Kumari, SrihariKumar Annamareddy, AbantiSahoo, Recent Advances in the recovery and Improvement of functional chitosan from fish processing, *International Journal of Advance Research in Sciences and Engineering.*, 2018, 07, 605-611.
7. Suneeta Kumari, SrihariKumar Annamareddy, AbantiSahoo, Prospective of fishery waste-chitosan for waste water treatment, *International Journals of Advances in Sciences Engineering and Technology* 2018, 6(1), 31-34.
8. RK Gajula, R Kishor, MJ Prakash, Imine-Linked Covalent Organic Cage Porous Crystals for CO₂ Adsorption, *Chemistry Select*, 2019, 4 (43), 12547-12555.

Workshops, seminars & Guest Lectures conducted under the department.

S.No.	Name of Event	Date	Name of delegates along with their designation
1.	<i>Employability of students Special Talk on Women for their work life balance and Industry readiness</i>	23 and 24 Aug 2019	<i>Ms Chaitali Dutta from ONGC</i>
2.	<i>Research Methodology</i>	2 Jan 2020	<i>Prof Vineet Kumar Professor IIT ISM Dhanbad</i>

SWAYAM / NPTEL / MOOCs course participated by Faculty and students.

S. No.	Name of Course	Date	No. of Faculty members participated	No. of students participated
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1.	Digital Transformation in Teaching Learning Process	6 April to 22 April 2020 (Two week)	12	NA
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Research Project

S. No	Name of PI	Topic of research	Sponsoring Authority	Sponsorship Amount (Rs.)
1.	Dr. Sanjay Kumar	Development Of Low Cost Dye Removal Technology From Waste Water By Using Aquatic Plants	AICTE-NPIU (CRS)	8,79,000
2.	Dr. Suneeta Kumari	Synthesis of Chitosan Based Mixed Matrix Membrane for Removal of Heavy Metal from Aqueous Solutions	AICTE-NPIU (CRS)	9,20,000
3.	Dr. ChV Raghunath	Multi component acidic gas absorption from coal fires thermal power plants	AICTE-NPIU (CRS)	15,45,000
4.	Dr. B. Sujan Kumar	Enhancement of CO ₂ absorption using Hybrid nanofluid	AICTE-NPIU (CRS)	18,92,000

Industrial Visit

S.No.	Name of Industry visited	Date of visit	Number of students present	Name of Professor In-charge visited
1.	Patherdih Coal Washery	January 2017	85	Prof SP Singh, Dr. Ajay Oraon
2.	Patherdih Coal Washery	28 February & 4 March 2019	93	Dr. Arvind Singh, Dr. Sanjay Kumar, Dr. Mahendra Ram, Mr. Sai Prasad Pati
3.	SAIL Bokaro	30 March & 2 April 2019	93	Dr. Arvind Singh, Dr. Mahendra Ram, Mr. Sai Prasad Pati, Mr. B. Karthik, Ms. A Samira,

Departmental Laboratory Details

Sl.	Name of Lab	Description
1.	Unit Operation, Mass Transfer, Heat	This Laboratory allows students to gain hands-on experience while studying both the fundamental principles and practical applications of chemical engineering. The laboratory includes



	<i>Transfer, Mech Operation</i>	<i>pilot-plant scale equipment that represents unit operations (specific components common to a variety of chemical processes) found in industrial settings. This equipment includes distillation columns (both staged and packed), counter-current heat exchangers, ion exchange units, gas absorption and liquid-liquid extraction columns, membrane separators, drying units (including a spray dryer), plate and frame filter press, and an analytical lab and process control room. This facility is specifically designed to introduce students to larger scale industrial processes commonly encountered by chemical engineers. In this laboratory, students work in teams to apply principles learned in the classroom to solve practical engineering problems.</i>
2.	<i>Process Control & Inst</i>	<i>The main focus of this lab is to design and implement controllers for different processes and also modeling of the process elements in such a way that the system provides an optimum performance. The experiments conducted in the laboratory impart training and practical testing of the equipments which offer students the right kind of exposure and provide them ample opportunity to apply their knowledge in practical scenarios.</i>
3.	<i>Petroleum Refinery Engineering Lab</i>	<i>Petroleum Refinery Engineering Lab provides academic and research services through performing all lab tests needed for analysis and study of petroleum products characteristics and its properties.</i>
4.	<i>Fluidization Lab</i>	<i>The educational objective of this lab exercise is to: Understand the physical process of fluidized beds, obtain measured data for a specific test case, compare the data with theoretical calculations, analyze the phenomena, differences, etc in a report.</i>
5.	<i>Process Engineering</i>	<i>The general scientific objective of Process Engineering Laboratory is the study of processes taken in their totality and their complexity. In this lab, students are able to understand the general synthesis procedure for various chemicals and its quality evaluation.</i>
6.	<i>Thermodynamics</i>	<i>Thermo-lab is developed for demonstrating and understanding of the laws of Heat Transfer and thermodynamics. The training units are available in order to help the students understand the processes of heat transfer between fluids and solids, While the thermodynamics section covers working mechanism of heat pumps, steam engine mechanism and different refrigeration and air conditioning cycles. The lab also has cut-out Engine modules (both petrol and diesel IC engines) to give an in-depth understanding of the working of IC engines.</i>



7.	<i>Fluid mechanics lab</i>	<i>The objective of this laboratory is to determine the various parameters related to fluid flow in pipes and in open channels. At present it is equipped with hydraulic benches & various stand-alone equipment to carry out experiments like verification of the Bernoulli's energy equation, study of transition from laminar to turbulent flow, determination of velocity profile for pipeline flow, determination of coefficient of discharge for obstruction flow meter(venturimeter/orifice meter), determination of hydraulic coefficients for flow through an orifice, determination of friction coefficient for pipes of various diameters and calculation of minor head losses in pipes.</i>
7.	<i>Computer Lab</i>	<i>The Computer Lab at chemical department is equipped with Internet access. We provide a network of latest computers, adequately matched and supported by a host of printers, scanners and other peripheral devices. The computer systems in the Computer Lab is well equipped with open source software's like Free CAD (Computer aided design) software, and Free Ansys, etc.</i>

Special achievements by Department, Faculty Members or Students

1. *Dr. Mahendra Ram, Received “International distinguished researcher in fuel gas production” award by Rula award on 15th August 2019 which is accredited by World Research Council and United Medical Council.*
2. *Dr. Mahendra Ram, Received membership of World Research Council (WRC).*
3. *Dr. Sanjay Kumar, Best Research Award by IIT Madras in 2018.*





Mining Engineering Department

The Department of Mining Engineering, BIT Sindri was started in the year 1975 by the Government of Bihar, keeping in view the vast and a large variety of mineral reserves in the state of Bihar (now Jharkhand). There was also an urgency to cater the need for a large number of trained and skilled mining engineers in the 1970s as natural consequences of nationalization of the mineral industries. The department was started with an initial intake of 25 students in four years degree course which was subsequently approved off late enhancing to 49 students per year by AICTE, New Delhi.

Since the inception of the department, it has contributed, through its well trained and efficient products and experienced faculty members, in a very positive way in the areas of coal and non-coal mining with regard to their management, planning, research and development. The department has the unique locational advantage of being in the middle of country's prominent coal mining companies as well as various institutions and research organizations of national and international repute such as BCCL, CCL, ECL, CMPDIL, CIMFR, IIT (ISM), TATA STEEL Ltd., SAIL, NML etc. The department is privileged to take the benefit of the presence of such big and illustrious organizations through regular interaction of industries experts with students as well as faculties.

The Department of Mining Engineering in its last 44 years of existence has developed its own curriculum and significant laboratory facilities in keeping with the present-day requirements in the mining and allied industries of the nation and also in a global context. The department has Laboratories with state-of-the-art facilities namely, viz. Rock Mechanics, Mine Ventilation, Mine Environmental Engineering, Mine Systems, Mining Machinery, Mine Surveying as well as Mine Geology. Efforts are continuously being made for improvements in each and every aspect of curricular, co-curricular and extra-curricular activities to maintain its position among the top league in the country.

Vision and Mission of Department:

Vision :

Strengthening education, research and industry institute interaction in the fields of mining engineering at par with international standards.

Mission of the Department:

1. Provide outstanding technical education for analysis, design and operation of mining and materials systems.
2. Keep abreast with rapid strides of technology and improve academic standards through innovative teaching and learning processes.
3. Engage in quality research in Mining, materials and allied engineering areas.
4. Develop academic linkage with leading industries for mutual benefit.

**A) Publication by faculty member and students**

Design considerations of a IoT aided data acquisition system for mining industry applications; A. Halder, D. Chakravarty, U. K. Dey, National Conference on Advances in Mining (AIM-2020), Jointly Organised by: CSIR-CIMFR, Dhanbad & IEI, Dhanbad Local Centre. 2020

SWAYAM/ NPTEL/ MOOCs course participated by Faculty and students

<i>S. No.</i>	<i>Name of Course</i>	<i>Date</i>	<i>No. of Faculty members participated</i>	<i>No. of students participated</i>
<i>1</i>	<i>Digital Transformation in Teaching Learning Process (DTITLP) course organised by NPIU, and conducted by IIT Bombay</i>	<i>March 16 to March 30, 2020</i>	<i>9</i>	<i>0</i>
<i>2</i>	<i>Fundamentals of managerial economics</i>		<i>0</i>	<i>1</i>

Research Project

<i>S. No.</i>	<i>Name of researcher</i>	<i>Topic of research</i>	<i>Sponsoring Authority</i>	<i>Sponsorship Amount</i>
<i>1</i>	<i>Prof. Arpan Halder</i>	<i>IoT in Mines</i>	<i>NPIU, MHRD (TEQIP-III Project)</i>	<i>4,00,000</i>

Details of testing work

<i>S. No.</i>	<i>Details of Testing</i>	<i>Name of Organization</i>	<i>Amount</i>
<i>1</i>	<i>Material testing</i>	<i>CCL, BCCL etc</i>	<i>Approximate 50 lacs</i>

Departmental Laboratory Details

<i>S. No.</i>	<i>Name of Laboratories</i>



1	Mine Environment: From Methanometer to TDS, Bomb Calorimeter, High Volume Sampler Mine Environment Laboratory has many prevalent instruments in the Department.
2	Mine Surveying: Mine Surveying laboratory is up-to-date with Theodolites, Total Station, Auto Level, GNSS and all essential accessories and equipment
3	Mine Ventilation: Mine Ventilation laboratory has Dry & Wet bulb hygrometer, different Flame Safety Lamps, G. L. Apparatus, Gas Chamber and many other essential accessories, equipment and instruments.
4	Mining Machinery: Mining Machinery lab consists of different safety devices including Tulu pump, Chain Pulley block and transformer.
5	Rock Mechanics: Rock Mechanics has one of the well-established laboratories with different rock and soil testing machines and tools. At present, the laboratory has a Compression testing machine, Core cutting machine, Crushing strength apparatus, Direct Shear apparatus and many others with all the essential accessories.
6	System Laboratory: System Laboratory also serves the purpose for Computer Application in Mining and Mine Planning & Design. System laboratory has various Mining Software: Flac 3D, Earthworks, Auto-Cad, M.S. Project, SURPAC and Visual FEA.

Special achievements by Department, Faculty Members or Students

NBA accreditation Department.

- The following students have won different prizes in Indian Mining Day at CIMFR, Dhanbad on 1st Nov 2019 under the guidance of Prof. Saurabh Jain, Prof. Chinmay Mandal, Prof. Arpan Halder and Prof. U. K. Dey
- **Essay writing:** Rahul Kumar Singh, 1608037 (First position); Bhupendra Kumar, 1608008 (Third Position).
 - **Eloquent:** Rahul Ranjan, 1708030 (First position); Savyasachi Sawarn, 1608044 (Third Position)
 - **Quiz:** Saddam Hussain, 1608040 (First position); Rahul Ranjan, 1708030 (Second Position); Savyasachi Sawarn, 1608044 (Third Position).

- **Poster Presentation: Pankaj Kumar, 1808024 and Shanu Anand, 1808037 (Second Position).**





- Kunal Kishor (1808018) had participated in the Annual Mining Techfest of IIT Kharagpur in October, 2019 and won: 1) 2nd prize in QUIZOMANIA and 2) 2nd prize in IDP (Industrial Design Problem).



- Mayank Sinha (1808020) has obtained Rank 1- Sandhan 2019 BIT SINDRI (Maze Corridor event), Rank 3- Triveni 2019 BIT SINDRI and Rank 2 - Greatstep IIT Kharagpur (IDP Event).
- Anikesh kumar Mishra (1808003), Sachin Kumar Singh (1808034), Yesh Kumar (1808048), MD Afsar Hussain (1808021), Sachin Kumar Mandal (1808050), Ranjan Sharma (1808029), MD Aftab Alam (1808052), Vishal Kumar Mahato (1808046), Shikhar Aparva (1808039) and

Ashutosh Kumar Ojha (1808010) has attended Skill development cum training programme on "Precise Surveying using Modern Equipments" at CIMFR Dhanbad during 24-28 Feb 2020.

- ❑ *Anubhaw Kumar Sharma (1808004) in March 2020, participated in a online hackathon "COVIDTHON 2020" organised by Jharkhand Government along with his teammates (Shivam Anand and Abhay Kumar) for software based solution for quarantine management for COVID positive patients and general citizens, for that we came up with an app called QMApp (quarantine management app).*
- ❑ *Paresh Rathour (1708024), Aditya Tiwari (1808001) and Apoorv Ashish Parmar (1808005) participated in the event MINARE'20, conducted by NIT RKL and won in two 1st prize in event BID TO WIN (Auction game of different types of minerals) and Paresh Rathour (3rd year 1708024) also won 2nd prize in AFFICHE (poster presentation) with the help and guidance from Prof. Arpan Halder, Prof. Saurabh Jain and Prof. U. K. Dey.*





Electronics and Communication Engineering Department

Department of Electronics and Communication Engineering has started its journey in the year 1957 with an intake of 30 students. At present department offers a four-year B. Tech degree course with a present intake of 56 and a lateral entry of 12 students. The department has excellent infrastructure with new classrooms and a conference room equipped with LCD Projector. The department has well-equipped laboratories with the development of three new labs required for the undergraduate program. We have established a **Centre of Excellence Lab in Collaboration with Siemens & Design Tech**. We have dynamic and well-qualified faculty members from various domains of electronics engineering with a well-experienced support staff which gives a wide range of technical expertise. 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.

Also, we had organized various FDPs and workshops for our teaching and non-teaching staff. We are also engaged in our student's overall development as we encourage them to take part in various skill development programs, competitive exams, etc for which we provide them with necessary academic and financial support. Apart from that we also provide financial support to students for various clubs for their social and cultural activities.

Recently an “**International Symposium on 5G & Beyond for Rural Upliftment**” is being jointly organized by the Department of Electronics & Communication Engineering, BIT Sindri, and Department of Electronics Engineering, IIT(ISM) Dhanbad, Jharkhand on 8th and 9th February 2020. The aim of the Symposium is to provide a platform for exploring and exchanging ideas among the networked people. It imposes how the 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 behaviour 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. Department is rich from the research point of view also as we have 24 Publications in reputed journals in the Assessment Years. A Ph.D. degree is awarded to five faculties in the assessment year and three faculties registered for the Ph.D. program at IIT Dhanbad.

Vision and Mission of department

Vision:

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

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.



Publication by faculty members and students

Publication in National/International Journals

Sl. no.	Author(s)	Name of Journal/Conference	Title/Topic of the Paper	ISSN/ ISBN No.	Paper no./ Page no.	Year/ Volume Issue
1	Dr. M. G. Tiary	International Journal of RF and Microwave Computer Aided Engineering, Wiley	An UWB Trapezoidal Ring Fractal Mono Pole Antenna with Dual Notch Characteristics		PP. 1-10	March, 2019
2	Dr. M. G. Tiary	International Journal of RF and Microwave Computer Aided Engineering, Wiley	A Multiband Antenna using Plus Shaped Fractal like Element and Stepped Ground Plane		PP. 1-10	Jan-2020
3	Dr. M. G. Tiary	International Journal of Microwave Optical Technology Letter, Wiley	UWB Mono Pole Antenna with Dual Band Notched Characteristics		PP. 1222-1229	2020
4	Dr.S. K. Verma	Recent Advances in Electrical & Electronic Engineering	Design and Optimization of Fractional Order PP^D^u Controller using Grey Wolf Optimizer for Automatic Voltage Regulator system			In Press
5	Dr.S. K. Verma	Engineering Optimization, Taylor & Francis.	Modified Grey Wolf Optimizer for Design and Optimization of Fractional Order PID Controller for AVR system			Journal Communicated
6	Dr.S.K.Verma	Journal of Engineering Science and Technology	Approximation of fractional order MIMO system with balanced realization-based techniques			Journal Communicated
7	Dr.S.K.Verma	Journal of the Franklin Institute, Elsevier	Evolution of Fractional Calculus and Fractional Order Controls: A Literature Review			Journal Communicated

Publication in National/International Conferences

Sl. No	Author(s)	Name of Journal/Conference	Title/Topic of the Paper	ISSN/ISBN No.	Paper no./Page no.	Year/Volume Issue
1	Dr. Inteyaz Ahmad	International Symposium on 5G and Beyond for Rural Upliftment with 35th GSSM meeting	Smart attendance monitoring system with Computer vision using IOT			8-9 Feb 2020
2	Dr.Amar Prakash Sinha		Pollutant Profile Estimation using Unscented Kalman Filter			
3	Dr.Amar Prakash Sinha		QCA Adder-Subtractor, International Symposium on 5G & Beyond for Rural Upliftment			
4	Kritika Awasthi	International Symposium on 5G and Beyond for Rural	A Comparative Analysis			8-9 Feb 2020



		<i>Upliftment with 35th GSSM meeting</i>	<i>for Realization of Limit-cycle free 2D Digital Filters with external disturbance</i>			
5	<i>Pritika Singh</i>	<i>International Symposium on 5G and Beyond for Rural Upliftment with 35th GSSM meeting</i>	<i>Electrical Impedance Analysis On Orange During Storage And Ripening</i>			8-9 Feb 2020

Workshops, seminars & Guest Lectures conducted under the department.

<i>Sl.</i>	<i>Name of Event</i>	<i>Date</i>	<i>Name of delegates along with their designation</i>	<i>No. of Participants</i>	<i>Name of Key organizers</i>
1.	<i>Antenna Trends</i>	<i>1st -5th July, 2019.</i>	<i>Dr. Arvind Kumar, Assistant professor Dr. S. K. Verma, Assistant professor</i>	28	<i>Electronics and ICT Academics at NIT Patna</i>
2.	<i>VLSI Chip Design Hands on Using open source EDA</i>	<i>8th -12th July, 2019</i>	<i>Dr. A. P. Sinha, Associate professor Mr. Jagveer Singh Verma, Assistant professor</i>	24	<i>Electronics and ICT Academics at NIT Patna</i>
3.	<i>Natural Language Processing</i>	<i>6th to 10th January, 2020</i>	<i>Dr. Imteyaz Ahmad, Associate professor Mr. Bhavesh Kumar, Assistant professor</i>	26	<i>Electronics and ICT Academics at NIT Patna</i>
4.	<i>ICT Tools for Teaching, Learning process & Institutes</i>	<i>13th to 17th January, 2020</i>	<i>Prof. Binod Mishra, IIT Roorkee; Prof. T. V. Prabhakar, IIT Kanpur; Mr Aditya Vadlamani & Dr. Neeta Singh, IIT Kanpur, Dr. Santosh Vipparthi, MNIT Jaipur; Dr. E. S. Pilli, MNIT Jaipur; Dr. Arka Prokash Mazumdar, MNIT Jaipur</i>	40	<i>Electronics and ICT Academics at NIT Patna</i>
5.	<i>Internet of Things</i>	<i>14th -18th October, 2019</i>	<i>Mr. Anurag Gupta Director & Founder, Tevatron Technologies Pvt Ltd, Noida; Mr. Robin Pathak NI Technologies Expert; Mr. Ashis Pal NI Technologies Expert Mr. Kishore M NI Technologies Expert</i>	32	<i>Department of ECE, BIT Sindri</i>

SWAYAM / NPTEL / MOOCs course participated by Faculty and students.

<i>Sl. No</i>	<i>Name of Course</i>	<i>Date</i>	<i>No. of Faculty members participated</i>	<i>No. of students participated</i>
1	<i>Digital Transformation in Teaching Learning Process SWAYAM</i>	<i>06-04-2020</i>	10	
2	<i>Signals and Systems NPTEL</i>	<i>27-01-2020</i>		2



3	Integrated circuits MOSFETS, OP-AMP and their fabrication NPTEL	20-04-2020		1
4	Analog Electronic Circuits NPTEL	02-02-2020		1
5	Analog Communication NPTEL	02-02-2020		2
6	IOT NPTEL	02-02-2020		1
7	Data Structures and Algorithms (Coursera)	02-01-2020		1
8	DTITLP		1	
9	JAVA		1	
10	Quantum Computation		1	

Research Project

Sl.No.	Name of PI	Topic of research	Sponsoring Authority	Sponsorship Amount
1	Ms. Kritika Awasthi	Development of Thermoelectric Generator integrated Charcoal Stove	TEQIP-III	2,86,000/-

Industrial Consultancy

Sl. no.	Detail of Consultancy	Name of Organization	Amount
1	One week FDP on 5G-Communication	NIT Patna	10,000/-
2	One week FDP on Wireless and Mobile Communication	NIT Patna	10,000/
3	One week FDP on DSP and Sensors	NIT Patna	10,000/
4	One week FDP on Antenna Trends	NIT Patna	10,000/
5	One week FDP on VLSI Chip Design Hands on Using open source EDA	NIT Patna	10,000/
6	One week FDP on Natural Language Processing	NIT Patna	10,000/
7	One week FDP on ICT Tools for Teaching, Learning process & Institutes	NIT Patna	10,000/

Industrial Visits

Sl.no.	Name of Industry visited	Date of visit	Number of students present	Name of Professor In-charge visited
1	BSL BOKARO	11.08.2018	60	Dr.Imteyaz Ahmed, Kritika Awasthi, Jagveer.S. Verma

Departmental Laboratory Details

Sl. No	Name of Lab
1	Microwave Engineering
2	Analog and Digital Communication
3	Analog Electronics
4	DSP
5	Digital Electronics
6	Basic Electronics



7	Microwave Lab
8	Tele communication system switching Lab
9	SCD lab
10	VLSI
11	COA

Name of new laboratory developed with details

1) IOT lab

Sl. No.	Item Specification	Quantity
1	Industrial IoT Educational Software	10
2	Systems Engineering Software: Professional Suite	5
3	Embedded System for Testing of code: Evaluation Board 1	10
3.1	Evaluation Board 2: -	10
3.2	Low power wireless transceiver extension kit: -	10
3.3	SIM800C 2G- board USB based –	10
3.4	4G-SIM7600 board –	10
3.5	Evaluation Board 3: -	10
3.6	12-key capacitive touch numeric keypad with LED backlighting and proximity wake-up. 10 Nos	10
3.7	Evaluation Module 1: -	5
3.8	Evaluation Board 4: -	10
3.9	IoT Enabled ARM® Cortex®-MCU Connected Development Kit: -	2
4	Sensor Hub: -	10
4.1	Educational Booster Pack: -	10
4.2	Robotic Systems Learning Kit-	5



5	FPGA Board with PMOD(Accessories) For Internet of Things Lab	5
5.1	Embedded Hardware for Data Acquisition and Control Application: -	10
6	IoT Application Boards:	10
6.1	Wi-Fi module	10
6.2	Wireless microcontroller Development kit	10
6.3	Wireless development tool in a watch: -	10
6.4	Starter kit	5
6.5	IOT Gateway Evaluation kit	10
6.6	Development Board 1	10
6.7	Development Board 2	10
7.1	Sensor & Transducer Bundle for IoT Projects	10
7.2	Mechatronics Accessory Kit	5
7.3	Basic Sensor & Actuator Package	5
7.4	Advance Sensor Package	1
8	Delivery, Installation and Training	
9	Student & Faculty Development Program	

Simulation / CEDT Lab

Equipped with 90 good configuration computers with high speed internet facility and necessary softwares required for smooth functioning of Laboratories.

Special achievements by Department, Faculty Members or Students

An “International Symposium on 5G & Beyond for Rural Upliftment” was organized by Department of Electronics & Communication Engineering, BIT Sindri and Department of Electronics Engineering, IIT(ISM) Dhanbad under twinning activity on 8th and 9th February, 2020.

The key agenda of the symposium was to explore the ideas of 5G communication system for smarter and safe use of network-generated data and to provide reliable next-generation wireless ecosystems. Moreover, the event will also provide the platform for exploring and exchanging the ideas among the networked people. Additionally, the Symposium would provide valuable, useful and informative ideas about 5G and beyond to the participant students, researchers and other experts.

A wide range of keynote speeches speakers from the industry and Academia (mostly from IITs, NITs across the country and other reputed institutes across the globe) delivered their talk to discuss various developments and deliberate on emerging challenges pertinent to Digitalization and communication development in India as well as world. Further, this symposium intends to provide a platform for industry leaders to share their wisdom and experience with academia.

Moreover, around 40 research papers from different areas like IoT, 5G, light communication, Wireless sensing network, cryptography, data analysis for eHealth etc. were successfully presented in the symposium. Additionally, more than 100 delegates from different industry and Academia were attended the symposium. The detail souvenir of the

symposium is attached with this report. At last in the closing ceremony certificate of presentation and certificate of participation were distributed to all the authors and participants.

Along with this Dr. Amar Prakash Sinha is reviewer of two international and one national level workshop.





Computer Science and Engineering Department

Programs:

Program-I: Computer Science and Engineering

Program-II: Information Technology

The Departmental program Computer Science & Engineering started in the year 1987 and program Information Technology started in the year 2001 under VINOBA BHAVE UNIVERSITY Hazaribagh, Jharkhand offers only undergraduate program. Currently it is under JUT(Jharkhand University of Technology , Ranchi). To impart quality into the various aspects of Computer Science , Information Technology, ICT technologies their applications and related engineering, the Department strives to achieve excellence in teaching- learning activities with emphasis on innovations and upto date technologies.

1. Vision of Department :

To be in forefront in producing qualitative, competitive and productive graduates trained in the latest technologies in the area of Computer Science & Engineering and Information Technologies.

2. Mission of Department:

- i. To offer the state of art of UG, PG and Doctoral program
- ii. To provide quality engineering education to the students through state of the art of education in computer science & engineering.
- iii. To establish industry institute interaction to make students ready for the industrial environment.
- iv. To provide a learning environment to improve their problem-solving abilities, professional, and ethical responsibilities.
- v. To provide the environment for grooming up as productive professional.

3. A) Publication by faculty members and students

1. Poulami Dalapati, Kaushik Paul, “ Optimal Scheduling for Delay Management in Railway Network using Hybrid Bat Algorithm ” , *Intelligent Computing in Control and Communication (ICCC-2020)*, Srikakulam, India, 2020. pp.1-12. Accepted for publication in *Lecture Notes in Electrical Engineering*, Springer, 2020.

- i. Kaushik Paul, Poulami Dalapati, “Optimal Rescheduling Of Real Power To Mitigate Congestion Using Elephant Herd Optimization, *Intelligent Computing in*



Control and Communication (ICCC-2020), Srikakulam, India, 2020. pp.1-10. Accepted for publication in Lecture Notes in Electrical Engineering, Springer, 2020.

- ii. *Kaushik Paul, Niranjana Kumar, Poulami Dalapati, "Congestion control by optimal engagement of distribution generation using hybrid evolutionary algorithm.", International Journal of Innovative Technology and Exploring Engineering, Volume-8 Issue-12, pp. 3329-3336, October,*
- iii. *Pooja Sharma, A K Pandey, D K Bhattacharyya J K Kalita & S C Dutta, Discovering biomarkers in Parkinson's Disease using module correspondence and pathway information accepted for publication in International Conference on Mathematics and Computing: ICMC 2020, Springer.*

B) Workshops, seminars & Guest Lectures conducted under the department.

Sl. No	Name of Event	Date	Name of delegates along with their designation	No. of participants	Name of Key organizers
1.	The Era of Digital Transformation	08.07.2019 to 12.07.2019	Mr. Sujeet Srivastava Mr. Manoj Kr. Lal Mr. Vipin Kumar Mr. Nishith Sinha	50	Mr. Rajiv Ranjan Ms. Poulami Dalapati Ms. Pooja Sharma
1.	Python Programming with Industry Perspective	02.12.2019 to 06.12.2019	Conducted under E& ICT Academy, GOI and Regionally Coordinated by NIT Patna and BIT Sindri as a Remote Center	27	Dinesh Kr Prabhakar Sheshnarayan Sahu
2.	Deep Learning and Applications	09.12.2019 to 13.12.2019	Conducted under E& ICT Academy, GOI and Regionally Coordinated by NIT Patna and BIT Sindri as a Remote Center	36	Dr. S.C. Dutta Mr. A. Ranjith
3.	AI and Machine Learning	23.12.2019 to 27.12.2019	Conducted under E& ICT Academy, GOI and Regionally Coordinated by NIT Patna and BIT Sindri as a Remote Center	31	Mr. Rajiv Ranjan Mr. AnanthaRaj P
4.	Natural Language Processing	06.01.2020 to 10.01.2020	Conducted under E& ICT Academy, GOI and Regionally Coordinated by NIT Patna and BIT Sindri as a Remote Center	26	Dr. I. Ahmed Mr. Bhawesh Kumar

**SWAYAM / NPTEL / MOOCs course participated by Faculty and students.**

Sl.	Name of Course	Date	No. of Faculty members participated	No. of students participated
1.	Deep Learning	01.01.2020	1	Nil
2.	Practical with Tensor flow	24.01.2020	1	Nil
3.	Introduction to Cyber Security	03.03.2020	1	Nil
4.	Digital Pedagogy (Digital Transformation in Teaching Learning Process)	16.03.2020 to 30.03.2020	16	Nil
5.	GPU Architectures and Programming	(Jan-April 2020)	1	Nil
6.	Internet of Things	July-Nov 2019	1	Nil
7.	Components and Applications of Internet of Things	March - May 2020	1	Nil
8.	Linux Operating System	March - May 2020	1	Nil

Research Project

Sl.	Name of researcher	Topic of research	Sponsoring Authority	Sponsorship Amount
1.	Mr. Dinesh Kumar Prabhakar	Epileptic Seizor Detection using Machine Learning	TEQIP-III (CRS) World Bank	Rs.2,46,000
2.	Mr. Poulami Dalapati	Multi-Agent Based Modelling for Collision Handling and Delay Optimization in Indian Railway System	TEQIP-III (CRS) World Bank	Rs. 8,28,000
3.	Mrs. Pooja Sharma	Developping Machine Learning Techniques for Prioritization of Diseases Biomarkers in Human Beings	TEQIP-III (CRS) World Bank	Rs. 5,30,000

Industrial Visits

S.No.	Name of Industry visited	Date of visit	Number of students present	Name of Professor In-charge visited
1.	SAIL, BOKARO	12-08-2018	87	Prof R verma
2.	SAIL, BURNPUR	08-04-2019	52	Prof R verma

Departmental Laboratory Details



❖ *Following LABs are running under the Department :-*

- 1. Data Center Lab (G23)*
- 2. Algorithm Analysis Lab*
- 3. Artificial Intelligence Lab*
- 4. Computer Network Lab*

1. DATA CENTER LAB (Details):-

- *Room No.- ‘G-23’*
- *Dedicated For- **Computer Programming Language Lab***
- *No. Of Computers Present – 110*
- ***Hardware Specifications -***
Processor: Intel (R) Core (TM) i5 – 4590 CPU@3.30 GHZ
RAM – 4GB
System Type – 64 – bit Operating System, X 64-based Processor
- ***Software Specification –***
*No. of systems in which **Windows Operating Systems** are installed – 110*

2. ALGORITHM ANALYSIS LAB (Details):-

- *ROOM NO.- ‘F-31’*
- *Dedicated For - **Design And Analysis Of Algorithms Lab***
Data Structure Lab
Computer Graphics Lab
- *No. of Computers Present – 50*
- ***Hardware Specifications -***
Processor: Intel (R) Core (TM) i5 – 4590 CPU@3.30 GHZ
RAM – 4GB
System Type – 64 – bit Operating System , X 64-based Processor
- ***Software Specification –***
*No. of systems in which **Windows Operating Systems** are installed – 50*

3. ARTIFICIAL INTELLIGENCE LAB (Details):-

- *ROOM NO.- ‘F-10’*
- *Dedicated For-**Artificial Intelligence Lab***
Project 1 Lab
Project 2 Lab
- *No. of Computers Present – 50*
- ***Hardware Specifications -***
Processor: Intel (R) Core (TM) i5 – 4590 CPU@3.30 GHZ
RAM – 4GB



System Type – 64 – bit Operating System , X 64-based Processor

- **Software Specification –**

No. of systems in which **Windows** Operating Systems are installed – 50

4. COMPUTER NETWORK LAB (Details):-

- **ROOM NO.- 'F-11'**

- **Dedicated For-** Computer Network Lab
Software Engineering Lab
Operating System Lab
Soft Computing Lab

- **NO. of Computers Present – 50**

- **Hardware Specifications -**

Processor: Intel (R) Core (TM) i5 – 4590 CPU@3.30 GHZ

RAM – 4GB

System Type – 64 – bit Operating System , X 64-based Processor

No. of systems in which **Windows** Operating Systems are installed – 50

Special achievements by Department, Faculty Members or Students

Student Achievements :

1. Mr. Shantanu Shubham of Branch -IT is the First Runner up of Hackatron, of the team non-smart-enough from BIT Sindri , a 24 hour Hackathon held on 16th - 17th November 2019 in BIT Sindri.
2. Mr. Prakhar Shrivastava of Branch -IT is the 1st Runner up of Hackatron, of the team non-smart-enough from BIT Sindri , a 24 hour Hackathon held on 16th - 17th November 2019 in BIT Sindri.
3. Mr. Roshan Kumar Singh of Branch -IT , has secured 1st position in BUILD A BIT during CONCETTO'19, the Annual Techno Management Fest of IIT(ISM) Dhanbad. (21/10/2019).
4. Mr. Prakhar Shrivastava of Branch -IT , has secured 1st position in BUILD A BIT during CONCETTO'19, the Annual Techno Management Fest of IIT(ISM) Dhanbad. (21/10/2019).
5. Mr. Shantanu Shubham of Branch -IT , has secured 1st position in BUILD A BIT during CONCETTO'19, the Annual Techno Management Fest of IIT(ISM) Dhanbad. (21/10/2019).
6. Mr. Subham Jha of Branch -IT , has secured 1st position in BUILD A BIT during CONCETTO'19, the Annual Techno Management Fest of IIT(ISM) Dhanbad. (21/10/2019).
7. Mr. Deepak Kumar of Branch -IT , has secured 1st position in BUILD A BIT during CONCETTO'19, the Annual Techno Management Fest of IIT(ISM) Dhanbad. (21/10/2019).
8. Mr. Prakhar Shrivastava of Branch -IT , has secured B position in BIZATHON during CONCETTO'19, the Annual Techno Management Fest of IIT(ISM) Dhanbad. (19/10/2019).

Faculty Achievement :

Invited as chief speaker on 7th National Seminar on "Soft Computing techniques in Engineering Applications" on 27-28 February 2019, conducted by Dept. of computer science, Bhadrak Autonomous College Bhadrak, Orisa.





Humanities Department

The Department's objective is to provide ethics and value-based education to promising engineers. It seeks to develop the communicative, ethical and social consciousness of students in order to make them better professionals with humanistic values. It offers courses of English communication to the undergraduates.

Vision and Mission of the Department:

It aims to endorse the students with effective linguistic and social skills.

To develop awareness of vocabulary, expression, articulation, communication and interpersonal skills amongst the budding engineers and cater the present day industry and business needs.

SWAYAM/NPTEL/MOOCs course participated by Faculty and students

Sl.	Name of Course	Date	No. of Faculty members participated	No. of students participated
1.	Digital Transformation in Teaching Learning Process (MOOCs)	16th to 31 st March 2020	2	0

Research Project

Sl	Name of Researcher	Topic of Research	Sponsoring Authority	Sponsorship Amount
1.	Dr Sadaf Jamal (PI) Dr Arvind Kumar (CO PI)	"e-content generation on communication skills learning"	NPIU	Rs. 8,13000/-

Special achievements by Department Faculty Members or Students

1. Ph.D. GUIDANCE by Dr. Arvind Kumar, Professor and Head (Humanities)
2. Guide- Anita Kumari. "A Phonological and Socio-linguistic Study of English Communication and its Prevalent Condition in India". Vinoba Bhave University, Hazaribag.2018
3. Co-Guide- Sweta Singh. "Feminism to Feminist: Comparative Study of Mamta Kalia, Shashi Despande and Asha Viswas Poetry".2019.



Geology Department

Geological studies encompass all the physical, chemical and biological aspects of Earth, which also gives a holistic approach in the collection and interpretation of data about the Earth. The Department of Geology, BIT Sindri was started in the year 1975 to enhance the knowledge of Mining Engineering Students in the field of Geology. As Geologists, we are responsible to locate and assist in the extraction of mineral deposits such as gold, metallic ores, coal, petroleum and even building materials and economically useful clays, more common but vital materials such as stone aggregates for making concrete and road building, limestone for the cement, fertilizer and chemical industries, and sand for building or glass manufacture. The Department of Geology gradually came forward in order to reach full understanding of the problems faced by Civil and Metallurgical Engineering students. There was also an urgency to cater the need for a large number of trained and skilled mining engineers in the 1970s as natural consequences of nationalization of the mineral industries.

Since the inception of the department, it has contributed through its well-trained, efficient products, and experienced faculty members in positive way in the areas of petrology, mineralogy, geochemistry, stratigraphy, sedimentary, coal geology, petroleum geology, structure and tectonics, hydrogeology and engineering geology. The department is privileged to take the benefit of the presence of such big and illustrious organizations through regular interaction of industries experts with students as well as faculties. The Department of Geology last 45 years of existence has developed its own curriculum and significant Hydro-geochemistry laboratory facilities in keeping with the present-day water related issues of the nation and also on a global context.

Vision and Mission of department

Vision:

The Department of Geology strives to be one of the forefront interdisciplinary research and education departments in B.I.T Sindri, through maintaining scientific integrity and ethics in research, seeking for excellent teaching, serving society and national needs.

Mission:

The Department of Geology is dedicated to offer outstanding teaching curriculum in geosciences and to conduct research of high standard focusing on local and national related issues. It is our fundamental aim to produce professional geoscientists having knowledge, skills and values required to serve the needs of the society and the country.

To achieve the Department's mission, commitments are given to:

- ✚ Provide high-standard and nationally accepted academic knowledge in field of Mining and Civil Engineering.*
- ✚ Prepare students with sufficient knowledge of fundamental principles and practices of Earth Science.*
- ✚ Encourage, support and retain faculty and technical staff.*



- ✚ Create suitable environment and opportunities for faculty members to demonstrate and develop their skills and talent in research and teaching.
- ✚ Maintain and expand advanced laboratories and equipment.
- ✚ Strengthen the relationships with national governmental and private sectors through training, courses, consultations, etc.

Publication by faculty members and students

I. Publication in National/International Journals

Sl. no.	Author(s)	Name of Journal/Conference	Title/Topic of the Paper	ISSN/ISBN No.	Paper no./Page no.	Year/Volume Issue
1.	A. K. Behera, G. J. Chakrapani, S. Kumar, N Rai	Natural Hazards, Springer	Identification of seawater intrusion signatures through geochemical evolution of groundwater: a case study based on coastal region of the Mahanadi delta, Bay of Bengal, India	ISSN: 0921-030X	1209-1230	2019 / 97

II. Publication in National/International Conferences/Seminar

Sl.	Author(s)	Name of Journal/Conference	Title/Topic of the Paper	ISSN/ISBN No.	Paper no./Page no.	Year/Volume Issue
1.	Kritika Awasthi, A. K. Behera	International Symposium on 5G and Beyond for Rural Upliftment with 35th GSSM meeting	A Comparative Analysis for Realization of Limit-cycle free 2D Digital Filters with external disturbance			8-9 Feb 2020

Workshops, seminars & Guest Lectures conducted under the department

Sl	Name of Event	Date	Name of delegates along with their designation	No. of Participants	Name of Key organizers
6.	One day workshop on "Water Scenario of Dhanbad District: Emerging Challenges"	22, July, 2019	<ul style="list-style-type: none"> • Prof. S.P. Singh (Professor Emeratus and, Ex VC Vir kunwar Sigh Univ, Aarah) • Prof. S.K. Sinha (Professor of Geology, VBU, Hazaribag) • Dr. Abhay Kr. Singh (Sr. Scientist, CIMFR, Dhanbad) • Dr. K.K.K. Singh (Sr. Scientist, CIMFR, Dhanbad) • Mr. S.N Sinha (Retd. Superintending, Hydrogeologist, CGWB, Ranchi) 	80	Prof. (Dr.) P.K. Singh: Coordinator Prof. M.K. Nayak: Co-coordinator
7.	Water Resources Management: A shift	18-19, December, 2019	<ul style="list-style-type: none"> • Dr. Dipankar Saha, Ex Member, CGWB, Govt. of India, New Delhi 	80	Prof. (Dr.) P.K. Singh: Convener Dr. A.K. Behera:



from awareness to consciousness		<ul style="list-style-type: none"> Maj. Gen. B.B. Sharma, VSM, (Retd.), New Delhi Shri N.K. Mathur, Ex member, Central Water Commission, New Delhi Dr. D.K. Singh, Ex-advisor, NEC, Ministry of Home Affairs, Govt of India Dr. Rajesh Paul, Director, Excel Geomatics Pvt. Ltd. 	Coordinator Prof. M.K. Nayak: Organizing Secretary
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C) SWAYAM/ NPTEL /MOOCs course participated by Faculty and students.

Sl. no	Name of Course	Date	No. of Faculty members participated	No. of students participated
1.	Digital Transformation in Teaching Learning Process SWAYAM	06-04-2020	4	NIL

1. Research Project

Sl.no	Name of PI	Topic of research	Sponsoring Authority	Sponsorship Amount
1.	Dr. A K Behera	Saltwater Intrusion Study in Mahanadi delta, India	TEQIP-III	9,55,000/-

2. Details of Testing works

Sl. no	Detail of Testing	Name of Organization	Amount
1.	Petrographic Analysis	Hurl Sindri, Hurl Barauni	Rs. 30,000.00 Rs. 20,000.00

3. Departmental Laboratory Details

Sl	Name of Lab
1.	Mineralogy and Petrology
2.	Hydro-geochemistry lab

4. Name of new laboratory developed with details

i. Hydro-geochemistry lab

Sl	Item Specification	Quantity
1.	pH meter	1
2.	Digital Conductivity meter	1



3.	GPS	1
4.	Weighing Balance	1
5.	BOD meter	1
6.	DO meter	dl
7.	UV Spectrophotometer	1
8.	Laboratory Refrigerator	1

5. Special achievements by Department, Faculty Members or Students

- I. Fluoride removal from drinking water using indigenous material.
- II. Some photographs (Below) of Workshop on “Water Resources Management: A shift from awareness to consciousness” held on 18-19, December 2019.



Mathematics Department

Publication by faculty members and students

1. V. Tiwari, J. P. Tripathi, D. Jana, S. K. Tiwari and R. K. Upadhyay, "Exploring Complex dynamics of spatial predator-prey system: Role of predator's interference and additional food", (Accepted for publication in *International Journal of Bifurcation and Chaos*).
2. N. K. Thakur, A. Ojha and S. K. Tiwari, "The Role of Adaptation in Plankton System with Beddington-DeAngelis Type Functional Response", in *Mathematical Modelling and Scientific Computing with Applications (Springer Proceedings in Mathematics & Statistics)*, Vol. 308, pp. 21-33, 2020.
3. Vijay K. Yadav, Ghanshyam Prasad, Mayank Srivastava, Subir Das, "Triple compound synchronization among eight chaotic systems with external disturbances via nonlinear approach" *Differential Equations and Dynamical Systems*, Published online 16th May 2019.

SWAYAM / NPTEL / MOOCs course participated by Faculty and students.

S. No.	Name of Course	Date	No. of Faculty members participated	No. of students participated
1.	Digital Transformation in Teaching Learning Process	16.03.2020 to 30.03.2020	2 (Dr. Satish Kumar Tiwari, Dr. P Kumari)	
2	Digital Transformation in Teaching Learning Process	6-4-2020 to 22-4-2020	3 (Dr. S K Pandeya, Dr. C Thakur, Dr. G Prasad)	

Research Project

S. No.	Name of PI	Topic of Research	Sponsoring Authority	Sponsorship amount
1.	Dr. Priyanka Kumari	Mathematical S	AICTE – TEQIP - III	Rs. 8,06,000/-



Physics Department

Our Physics department is one of the departments which are required to teach the basic concept of science to the engineering students. We have 5 faculty members (3-Professors, 1-Associate Professor and 1-Assistant Professor (TEQIP-Contractual)). Our well qualified faculty members (all have PhD degree) are fully dedicated and always try to teach the students as much as possible. All the faculty members teach different subjects of Physics to the first- and second-year engineering students. According to Jharkhand University of Technology (JUT), there are 10 different subjects of physics to teach first year students and one subject (electromotive Force) to second year student. In autumn semester, we conduct Physics lab for the first-year students. In the lab there are experiments related to Mechanics, Optics, and Electromagnetic, etc. subjects. All the Physics experiments are based on curriculum of JUT. In a nut shell, Physics Department is a well-structured and fully equipped department with all the necessary facilities.

Vision and Mission of the Department:

We teach students of all the branches, thus try to contribute to fulfill vision and mission of different Departments.

Publication by faculty members and students

- (1) "Signature splitting in the positive parity bands of ^{127}Xe " S. Chakraborty, H. P. Sharma, S. S. Tiwari, C. Majumder, P. Banerjee, S. Ganguly, S. Rai, Pragati, **Swati Modi**, P. Arumugam et al., Eur. Phys. J A **56** 50 (2020).
- (2) "Structure of positive parity states in ^{139}Pm " S. S. Tiwari, H. P. Sharma, S. Chakraborty, C. Majumder, A. K. Gupta, **Swati Modi**, P. Arumugam, P. Banerjee, S. Ganguly, et al., Submitted to Phys. Scr. (2020).

SWAYAM/NPTEL/MOOCs course participated by faculty

S. No.	Name of Course (SWAYAM)	Date	Number of faculty members participated	Number of students participated
1	Digital transformation in teaching learning process	April 6 th to April 22 nd , 2020	05	-

Research Project

S. No.	Name of PI	Topic of Research	Sponsoring Authority	Sponsorship amount
1.	Dr. Swati Modi	Nuclear fission through microscopic density functional theory	AICTE – TEQIP - III	5,22,000 /-



Departmental Laboratory Details

<i>S. No.</i>	<i>Name of Laboratory</i>
<i>1.</i>	<i>Physics Laboratory</i>



Chemistry Department

The Department of Chemistry was established soon after the inception of BIT Sindri in 1949. Over the period, the Department has been nurtured under the able guidance of the eminent educationist and has also produced a Pro-Vice Chancellor, Kolhan University, Chaibasa, Prof. R. K. Singh. The present faculty members are actively engaged, beside their teaching programme, in pursuing research in frontier areas of chemistry. The department offers three courses in various semesters of B.Tech program, viz., Engineering Chemistry (B.Tech Ist and IInd Sem), Environmental Science (B.Tech IIIrd Sem) and Biology for Engineers (B.Tech IVth Sem). The department is also well equipped with state of art laboratory which caters to interdisciplinary research as well curriculum practicals pertaining to the discipline of Engineering Chemistry both at graduate and post graduate levels. M.Tech projects in addition to Ph. D (part time mode) is also carried out in the department in association with other reputed organisations, viz., IIT(ISM) Dhanbad, CSIR-CIMFR, etc. Research areas being pursued in the Department are mainly focused on the Green Psychochemistry, Sustainable development, Soil stabilization, Energy recovery, etc.

Vision and Mission of the Department:

To provide scientific education in the discipline of Chemical Sciences, and thereafter promote novel and innovative ideas in research for overall development of the Institute in addition to offering academic knowledge which would help attain intellectual excellence, and emerge the leaders and innovators of tomorrow in the realm of technology.

Publication by faculty members and students

Journal/Proceedings of National & International Conferences

- 1) Jayant Singh, U.K.Singh, **R.K.Singh**, 2020, Study of strength of clayey soil of Baliapur Dhanbad by different parameters, in National Conference on Recent trends in advanced technology applications & challenges, organised by Arka Jain University, Jamshedpur, Jharkhand, 28-29 Feb, 2020.
- 2) Pinkey Kumari Singh, J.P.Mishra, **R.K.Singh**, 2020, Study of positive effect on physical and mental health using Green Psycho-chemistry, in National Conference on Recent trends in advanced technology applications & challenges, organised by Arka Jain University, Jamshedpur, Jharkhand, 28-29 Feb, 2020.
- 3) **R.K.Singh**, 2019, Pain complaints in neurotic depression, *Journal of Psychology*, 32-35, ISSN 978-81-924-567-3-8.
- 4) **R.K.Singh**, 2019, Psychopathology of sexual behavior and public policy, *Journal of Psychology*, 23-31, ISSN 978-81-924-567-3-8.

BOOKS PUBLISHED

- 1) *Processes of chemical reaction*, **Dr. R.K. Singh**, Amiga Press Inc, 2020, ISBN 978-93-90012-34-3.



- 2) *Human Molecular Genetics*, **Dr. R.K. Singh** and Dr. Kumari Swarnim, Amiga Press Inc, 2020, ISBN 978-93-90012-36-7.

BOOK CHAPTERS

- 1) *Sustainable development for co-operative and environment protection*, **Dr. R.K. Singh**, Reliable Publishing House, ISBN: 978-93-85-930-25-6, 2019, 61-64.
- 2) *Environmental Legislation in India*, **Dr. R.K. Singh**, Mark Books, New Delhi, 1st Edition, 2019, ISBN 978-93-831-31-86-0.
- 3) **Tomar Swati**, Gupta S.K. (2019). *Current perspectives on the application of Anammox Hybrid Reactor Technology for the treatment of nitrogen laden wastewaters. In Advances in Environmental Research*, Ed. **Justin A. Daniels**, Nova Science Publishers Inc., New York, USA. (66) 69-114.

SWAYAM/NPTEL/MOOCs course participated by Faculty and students

S.No.	Name of Course	Date	Number of faculty members participated	No. of students participated
1.	Digital Transformation in Teaching Learning Processes	06/04/2020 to 22/04/2020	05 (Prof. R.K. Singh Prof. S.P. Mishra Dr. M. K. Mishra Dr. Swati Tomar Mr. Pintu Kumar Mandal)	Nil

Departmental Laboratory Details

S.No.	Name of Laboratories
1.	Engineering Chemistry Lab

Special achievements by Department, Faculty members or Students

Prof. R.K. Singh was awarded **RASHTRIYA GAURAV AWARD** for meritorious service, outstanding performance & remarkable role & Certificate of excellence.



Library

BIT Central Library is located behind the Administrative block in a separate building. There are over 1,00,000 text and reference books of various disciplines of science, engineering and technology housed in this library. Presently, the library does not subscribe to any journal but occasionally back volumes of journals of repute are procured. In addition, many departments such as metallurgy, chemical, production etc have their own departmental library. More details about the library can be had from the Prof-in-Charge, Central Library.

Acquisition Unit

Books

2017-18		2018-19		2019-20	
Total Volume	Title	Total Volume	Title	Total Volume	Title
13880	4500	13120	3450	7398	2500

Text book bank / (c) SC/ST Book Bank: NIL

Total Volume (old books)	Title (old books)
69,320	8220

Compact Disc:

2017-18	2018-19	2019-20
1200	1000	400

Access of Journal:

ASME, ASCE, IET, Springer Nature, E-Journals

IEEE ASPP Online- 2019-20 (TEQIP-III)

Data base (Software):

Libsys-LSEASE SOFTWARE

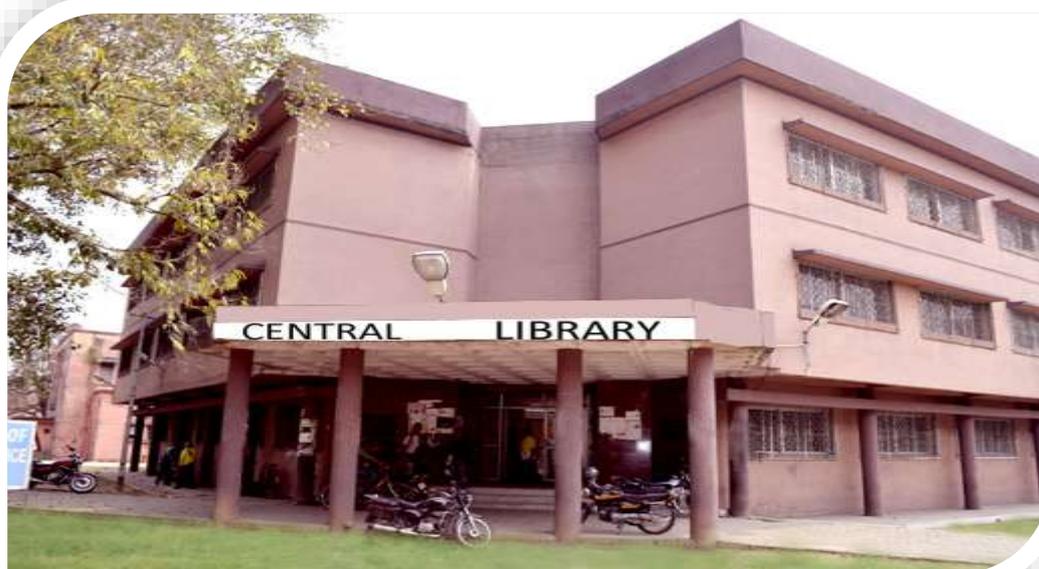
1. E-books:

Proquest Technology Collection –e-books – (51000) + Free of cost [5000+ e-journals, 1 Lac thesis (e), e-Magazines (400+ , 500 Videos) (2019-20)
TEQIP-III

2. Circulation Unit : Libsys-LSEASE SOFTWARE

3. Fund Sanctioned/Utilized:

2017-18	2018-19	2019-20
Sanctioned Rs.2,10,00,000	Sanctioned Rs.2,10,00,000	Sanctioned Rs.1,11,75,000
Utilized Rs.2,09,28,305	Utilized Rs.2,06,86,720	Utilized Rs.92,92,553





Result Summary

List of Toppers VII Sem. 2019-20

Sl.	Roll No.	Name of Student	CGPA
Civil Engineering			
1.	1605014	Amroj Imran	8.87
2.	1605101	Vivek Kumar	8.73
3.	1605096	Sushil H Yadav	8.67
4.	1605092	Sumit Kumar	8.53
5.	1705019D	Shahanawaj Ansari	8.47
Chemical Engineering			
1.	1604009	Aditya Devraj	8.53
2.	1604062	Raj Shikha	8.47
3.	1604092	Usaid Moin	8.40
4.	1604080	Srijan Kumar	8.27
5.	1604045	Megha Rani	8.20
Computer Science & Engineering			
1.	1709002D	Babli Mahto	9.33
2.	1609003	Aditya Kumar	8.73
3.	1609032	Sagar Kumar Mahto	8.33
4.	1709004D	Nakul Mahto	8.27
5.	1609033	Saurav Kumar Singh	8.20
Electrical Engineering			
1.	1601076	Ravi Kumar Singh	9.27
2.	1601056	Nikhil Kumar Sinha	9.20
3.	1601039	Jaya	8.93
4.	1701016D	Sanchya Kumari	8.87
5.	1701014D	Rahul Mondal	8.53
Electronics & Communication Engineering			
1.	1606042	Ritesh Kumar Ranjan	9.87
2.	1606044	Rohit Kumar	9.40
3.	1606039	Puja Singh	9.00
4.	1606052	Tripti Kumari	8.67
5.	1606053	Trishita Das Gupta	8.60
Mechanical Engineering			
1.	1600108	Vivek Kumar	9.40
2.	1700020D	Tejaswi Kumar Jaiswal	9.40
3.	1600013	Aman Agrawal	9.27
4.	1600089	Satish Kumar	9.13
5.	1600006/1700025D	Abhishek Kumar/Vikash Kumar Mondal	9.07
Metallurgical Engineering			
1.	1603015	Anurag Kumar	8.47
2.	1603042	Riya Kumari	8.40



3.	1603054	Vikash Kumar Singh	8.40
4.	1603055	Virendra Kumar	8.27
5.	1603057	Vivek Kumar	8.20
Mining Engineering			
1.	1608037	Rahul Kumar Singh	9.47
2.	1608044	S Sawarn	8.60
3.	1608049	Vishal Kumar	8.53
4.	1608052	Vishal Kumar Yadav	8.40
5.	1708011D	Vikash Kumar Mahato	8.33
Production Engineering			
1.	1602020	Jambajj Kumar	9.20
2.	1602001	Akashdeep Prasad	9.20
3.	1602003	Abhishek Shivam	9.00
4.	1602012	Ashish Kumar Mondal	8.87
5.	1702007D	Manoranjan Kumar Sharma	8.73
Information & Technology			
1.	1611012	Nargis Parween	9.47
2.	1611010	Deepti Gupta	9.20
3.	1611028	Sayeesta Samrin	8.73
4.	1611030	Shalika Sinha	8.53
5.	1611035	Sonali Priya	8.40

Result Summary

Department	Regular Batch			Old Batch	
	Total	Fail	Pass %	Total	Fail
Civil Engineering	118	9	92.37	9	4
Chemical Engineering	89	4	95.51	4	1
Computer Science & Engineering	47	6	87.23	1	0
Electrical Engineering	111	7	93.69	6	5
Electronics & Communication Engineering	64	7	89.06	4	3
Mechanical Engineering	110	1	99.09	7	4
Metallurgical Engineering	64	11	82.81	1	1
Mining Engineering	63	7	88.89	4	3
Production Engineering	63	1	98.41	5	3
Information & Technology	47	6	87.23	1	0



Training & Placement Cell

The Training & Placement Cell, BIT Sindri under the guidance of **Training & Placement Officer Prof. (Dr.) Ghanshyam** facilitates the process of placement of students passing out from the Institute besides collaborating with leading organizations and institutes in setting up of internship and training program of students. The office liaises with various industrial establishments, corporate houses etc. which conduct campus interviews and select graduate and post-graduate students from all disciplines. The Training & Placement Cell provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics. The Office interacts with many industries in the country of which nearly 100+ companies visit the campus for holding campus interviews.

Department wise Placement details Academic Session 2019-20

Chemical Engineering

S.NO.	Name of Recruiter	Department	No. Of Students Placed	Salary/CTC (Lakh)
1	Analytics Quotient	Chemical	1	5
2	Pin Click	Chemical	4	5.5
3	TATA Consultancy Services	Chemical	5	3.2
4	ACC limited	Chemical	1	4.5
5	Aditya Birla Group	Chemical	6	6.6
6	Dalmia Cement	Chemical	1	4.5
7	Hindustan Unilever Limited	Chemical	2	8
8	PI Industries	Chemical	2	5.5
9	Reliance Industries	Chemical	1	8.8
10	JSW Steel Limited	Chemical	4	6.5

Civil Engineering

Academic Session 2019-20

Sr. No.	Name of Recruiter	Department	No. of students placed	Salary / CTC (Lakh)
01.	TCS (Ninja)	CIVIL	02	3.4
02	ADANI GROUP	CIVIL	01	6
03	PIN CLICK	CIVIL	08	5.4
04	DHATU ONLINE	CIVIL	01	5
05	BYJU'S	CIVIL	02	10

**CSE**

<i>Sr. No.</i>	<i>Name of Recruiter</i>	<i>Department</i>	<i>No. of students placed</i>	<i>Salary / CTC</i>
1	ANALYTICS QUOTIENT	CSE	2	5.0 LPA
2	KREETI TECHNOLOGY	CSE	1	4.8 LPA
3	PIN CLICK	CSE	1	5.4 LPA
4	SIFY TECHNOLOGIES	CSE	5	3.5 LPA
5	TATA STEEL	CSE	5	8.8 LPA
6	TATA CONSULTANCY SERVICES(NINJA)	CSE	10	3.4 LPA
7	TATA CONSULTANCY SERVICES(DIGITAL)	CSE	1	7.0 LPA
8	YAMAHA IT SOLUTIONS	CSE	1	6.0 LPA
9	ZS ASSOCIATES	CSE	1	6.53 LPA
10	COGNIZANT	CSE	1	4.0 LPA
11	DHATU ONLINE	CSE	1	5.0 LPA
12	ERICSSON	CSE	1	3.75 LPA
13	WIPRO TECHNOLOGIES	CSE	3	3.5 LPA

Total Number of Students Placed: 33

ECE

<i>Sr. No.</i>	<i>Name of Recruiter</i>	<i>Department</i>	<i>No. of students placed</i>	<i>Salary / CTC (Lakh)</i>
1	Analytics Quotient	Electronics & Communication	1	5
2	Dhatu Online	Electronics & Communication	1	5
3	Ericsson	Electronics & Communication	3	3.75
4	Pin Click	Electronics & Communication	4	5.4
5	Sify Technologies	Electronics & Communication	8	3.5
6	Tata Consultancy Services	Electronics & Communication	8	3.4



7	<i>Wipro Technologies</i>	<i>Electronics & Communication</i>	5	3.5
8	<i>ZS Associates</i>	<i>Electronics & Communication</i>	1	6.53
9	<i>Tata Power</i>	<i>Electronics & Communication</i>	2	5.5
10	<i>The Engineer's Class</i>	<i>Electronics & Communication</i>	1	5
11	<i>Byju's</i>	<i>Electronics & Communication</i>	1	10

Electrical Engineering

Sr. No.	Name of Recruiter	Department	No. of Students Placed	Salary/ CTC (Lakh)	SECTOR
1	<i>ANALYTICS QUOTIENT</i>	<i>ELECTRICAL ENGINEERING</i>	2	5.5	<i>IT</i>
2	<i>ADANI COAL AND MINING</i>	<i>ELECTRICAL ENGINEERING</i>	3	5	<i>CORE</i>
3	<i>ACC</i>	<i>ELECTRICAL ENGINEERING</i>	1	4.5	<i>CORE</i>
4	<i>ADITYA BIRLA GROUP</i>	<i>ELECTRICAL ENGINEERING</i>	5	6.6	<i>CORE</i>
5	<i>COGNIZANT</i>	<i>ELECTRICAL ENGINEERING</i>	1	4.5	<i>IT</i>
6	<i>DHATU</i>	<i>ELECTRICAL ENGINEERING</i>	1	5	<i>CORE</i>
7	<i>HINDUSTAN UNILEVER LTD.</i>	<i>ELECTRICAL ENGINEERING</i>	1	8	<i>CORE</i>
8	<i>JINDAL STAINLESS</i>	<i>ELECTRICAL ENGINEERING</i>	3	6	<i>CORE</i>
9	<i>JSW</i>	<i>ELECTRICAL ENGINEERING</i>	2	6.6	<i>CORE</i>
10	<i>KEERTI TECHNOLOGIES</i>	<i>ELECTRICAL ENGINEERING</i>	1	4.5	<i>IT</i>
11	<i>PIN CLICK</i>	<i>ELECTRICAL ENGINEERING</i>	2	5.5	<i>OTHER</i>
12	<i>SCHLUMBERGER</i>	<i>ELECTRICAL ENGINEERING</i>	1	8.8	<i>CORE</i>
13	<i>TATA STEEL</i>	<i>ELECTRICAL ENGINEERING</i>	2	10.31	<i>CORE</i>
14	<i>TATA POWER</i>	<i>ELECTRICAL ENGINEERING</i>	6	5.5	<i>CORE</i>
15	<i>TCS CODEVITA</i>	<i>ELECTRICAL ENGINEERING</i>	1	3.6	<i>IT</i>
16	<i>TCS NINJA</i>	<i>ELECTRICAL ENGINEERING</i>	4	3.6	<i>IT</i>
17	<i>VEDANTU</i>	<i>ELECTRICAL ENGINEERING</i>	1	4.5	<i>CORE</i>
18	<i>4iITens</i>	<i>ELECTRICAL ENGINEERING</i>	1	6	<i>OTHER</i>

IT Department



Sr. No.	Name of Recruiter	Department	No. of Students Placed	Salary/ CTC
1	Cognizant	INFORMATION TECHNOLOGY	2	4
2	Dhatu Online(SoftwareEngineer)	INFORMATION TECHNOLOGY	1	5
3	Ericsson	INFORMATION TECHNOLOGY	3	3.75
4	Sify Technologies	INFORMATION TECHNOLOGY	5	3.5
5	Tata Steel	INFORMATION TECHNOLOGY	3	8.8
6	TCS Code Vita	INFORMATION TECHNOLOGY	1	3.4
7	TCS Digital	INFORMATION TECHNOLOGY	1	7.0
8	TCS Ninja	INFORMATION TECHNOLOGY	12	3.4
9	Wipro Technologies	INFORMATION TECHNOLOGY	2	3.5
10	ZS Association	INFORMATION TECHNOLOGY	1	6.53

Mechanical Engineering

Sr. No.	Name of Recruiter	Department	No. of students placed	Salary / CTC (Lakh)
1	Aditya Birla Group	MECHANICAL	6	6.6
2	Amalgam Steel	MECHANICAL	5	2.5
3	Dhatu Online (Business Analyst)	MECHANICAL	1	5
4	JSL Limited	MECHANICAL	3	6
5	Tata Steel	MECHANICAL	2	10.11
6	TCS Ninja	MECHANICAL	1	3.4
7	TRL Krosaki Refractories Limited	MECHANICAL	1	4.65
8	Viraj Profile Limited	MECHANICAL	5	3.6
9	JSW Steel Limited	MECHANICAL	5	6.6
10	Analytics Quotient	MECHANICAL	1	5



11	<i>Pin Click</i>	<i>MECHANICAL</i>	9	5.4
12	<i>ACC Limited</i>	<i>MECHANICAL</i>	1	4.5
13	<i>4IITEENS</i>	<i>MECHANICAL</i>	1	6
14	<i>Adani Group</i>	<i>MECHANICAL</i>	1	6
15	<i>Cognizant</i>	<i>MECHANICAL</i>	5	4
16	<i>Dalmia Cement</i>	<i>MECHANICAL</i>	1	4.5
17	<i>Saint Gobain</i>	<i>MECHANICAL</i>	2	6
18	<i>TATA Power</i>	<i>MECHANICAL</i>	3	5.5
19	<i>The Engineer's Class</i>	<i>MECHANICAL</i>	1	5

Metallurgy

Sr. No.	Name of Organization	Department	No. of students placed
1	<i>BARC</i>	<i>METALLURGY</i>	4
2	<i>TATA STEEL</i>	<i>METALLURGY</i>	14
3	<i>SAIL</i>	<i>METALLURGY</i>	9
4	<i>NML</i>	<i>METALLURGY</i>	6
5	<i>RDCIS</i>	<i>METALLURGY</i>	4
6	<i>CMRI-CIMFR</i>	<i>METALLURGY</i>	3
7	<i>HEC</i>	<i>METALLURGY</i>	4
8	<i>TATA TINPLATE</i>	<i>METALLURGY</i>	1

Production

Sr. No.	Name of Recruiter	Department	No. of students placed	Salary / CTC LPA
1	<i>Amalgam Steel</i>	<i>PRODUCTION</i>	5	2.5
2	<i>Dhatu Online (Business Analyst)</i>	<i>PRODUCTION</i>	1	5



3	<i>TCS Ninja</i>	<i>PRODUCTION</i>	2	3.4
4	<i>Viraj Profile Limited</i>	<i>PRODUCTION</i>	4	3.6
5	<i>4 IITEENS</i>	<i>PRODUCTION</i>	1	7
6	<i>PIN CLICK</i>	<i>PRODUCTION</i>	3	5
7	<i>BYJUS</i>	<i>PRODUCTION</i>	1	7

Mining

<i>Sr. No.</i>	<i>Name of Recruiter</i>	<i>Department</i>	<i>No. of students placed</i>	<i>Salary / CTC</i>
1	<i>Adani Group</i>	<i>MINING</i>	7	6
2	<i>Vedanta</i>	<i>MINING</i>	7	8.25
3	<i>PIN CLICK</i>	<i>MINING</i>	4	5.4
4	<i>ACC Limited</i>	<i>MINING</i>	2	4.5



Financial Details

Financial information: Funds Received & Spent

- **Financial Resources-** Main financial resource through budgetary Allocation under Plan & Non Plan by Jharkhand Government.
- Student fee
- Fund allotted for renovation, upgradation and infrastructural development of ₹ 175 Crore by government (2016-19).
- **Total Budget & Utilization**

Financial Year	Govt.	Expenditure/Utilization
CFY (19-20)	53,23,34,900/-	35,14,24,405/-
CFYm-1	45,62,90,200/-	39,47,95,939/-
CFYm-2	43,29,40,500/-	2,97,66,180/-

- **TEQIP -III Total Budget & Utilization**

Financial Year	Expenditure/Utilization (Rs)
Procurement of Gods	5,46,36,744/-
Academic Process	1,53,62,857/-
Operating Cost	16,85,434/-
Faculty Reforms	5,96,33,878/-
Total Cost	13,13,18,913/-

- **Student Budget**

Financial Year	Allocation
Tuition Fee	1,47,02,297/-
Intuitional Admission	67,800/-
Hostel Seat Rent	39,542/-
Fine	4,95,802/-
Total	1,53,05,441/-



Internal revenue generated

- More than one Crore every year through Consultancy and Testing through SIRTDO
- Professional Course (E-ICT nodal Centre)
- Total Income from Consultancy

	Revenue Generated	Others (IRG)
CFY (2019-20)	1,32,51,442.00	77,19,162/-

Engineering Projects (India) LTD.

Details of ongoing construction works at BIT Sindri

	Allocated	Expenditure
CFY (19-20)	Rs. 3,21,33,682.85/-	Rs. 37,22,45,539.50/-



Siemens-Centre for Excellence

Hon'ble Chief Minister Sri Raghuvar Das inaugurated this centre of excellence, established by Siemens India as a part of its 14-laboratory plan, in the presence of higher and technical education minister Dr. Neera Yadav, former Department secretary Ajay Kumar Singh, additional Chief Secretary Amit Khare, General Manager SIEMENS Suman Bose and Our dynamic Director Prof. D.K. Singh.

The aim of this is to enable a large number of youths to take up industry-relevant skill training that will help them in securing a better livelihood.

This lab was established by showing interest by Germany-headquartered engineering conglomerate SIEMENS as a part of proposal of Raghuvar Das government's ongoing campaign to hard-sell Jharkhand as an investor-friendly destination.

This lab consists of 15 various laboratories that act as a proper bridge between research and industry for real time applications and inquisitive queries.

Students of BIT Sindri & neighbourhood area can prosper with the knowledge of designing and building aspects, acquaintance of working principles of sophisticated instruments and invaluable opportunity to operate them.

Currently 7 courses on various disciplines have been running smoothly & students already benefitted from this platform at this juncture.

Workshop conducted during vacations has added advantage for the trainees to familiarize with the courses in more oriented direction for brief time period.

At initial stage of training, Siemens itself are giving training by appointing Trainer for the period of three years. The labs are:

Sr. No.	Lab Name
1.	Product Design & Validation Lab
2.	Advance Manufacturing Lab
3.	Test & Optimization Lab
4.	Test & Optimization Workshop
5.	Rapid Prototyping Lab
6.	CNC Programming Lab
7.	CNC Machines Lab
8.	Automation Lab
9.	Electrical Lab
10.	Process Instrumentation Lab
11.	Mechatronic Lab



12.	Robotics Lab
13.	Body Repair Lab
14.	Body Paint Lab
15.	Lift Maintenance Lab

Students Training

S. No	Lab Names	No. of Batches	In-House		Mobilized		Total Sum of Enrolled	Total Sum of Passed
			Sum of Enrolled	Sum of Passed	Sum of Enrolled	Sum of Passed		
1	Product Design & Validation Lab	54	1038	735	255	200	1293	935
2	Advance Manufacturing Lab	28	519	364	134	89	653	453
3	Test & Optimization Lab	5	73	36	5	4	78	40
4	Test & Optimization Work shop	0	0	0	0	0	0	0
5	Rapid Prototyping Lab	6	90	88	16	16	106	104
6	CNC Programming Lab	28	481	199	170	143	651	342
7	CNC Machines Lab	3	30	22	6	0	36	22
8	Automation Lab	38	542	237	388	355	930	592
9	Electrical Lab	64	1097	605	451	363	1548	968
10	Process Instrumentation Lab	2	57	0	0	0	57	0
11	Mechatronic Lab	0	0	0	0	0	0	0
12	Robotics Lab	1	15	0	0	0	15	0



13	Body Repair Lab	13	0	0	126	74	126	74
14	Body Paint Lab	13	0	0	121	79	121	79
15	Lift Maintenance Lab	18	0	0	165	93	165	93
	Grand Total	273	3942	2286	1837	1416	5779	3702

Faculty Training

Sl. No	Name and Department of the Faculty Members	Name of the Courses and Venue	Duration of the Courses
01.	Prof. Somnath Saha, Dept. of Mechanical Engg.	Turning - NC Programming, [Venue: G – 08]	28th May to 22nd June, 2019
		Turning - NC Operations, [Venue: - Workshop]	24th June to 3rd July, 2019
02.	Dept. of Production Engg.	Turning - NC Control Programming, [Venue: G – 08]	28th May to 22nd June, 2019
		Turning - NC Operations, [Venue: - Workshop]	24th June to 3rd July, 2019
03.	Prof. Purushottam K Singh, Dept. of Mechanical Engg.	Synchronous Modelling & Parametric Design, [Venue: G -04]	28th May to 22nd June, 2019
		Robcad Basics [Venue: G – 04]	24th June to 3rd July, 2019
04.	Dept. of Production Engg.	Synchronous Modelling & Parametric Design, [Venue: G – 04]	28th May to 22nd June, 2019
		Robcad Basics [Venue: G – 04]	24th June to 3rd July, 2019
05.	Prof. Amit K Mishra, Dept. of Mechanical Engg.	Essential for NX Designers, [Venue: G – 05]	28th May to 22nd June, 2019
		Intermediate NX Design & Assemblies, [Venue: G – 05]	24th June to 3rd July, 2019



06.	Dept. of Production Engg.	Essential for NX Designers, [Venue: G -05]	28th May to 22nd June, 2019
		Intermediate NX Design & Assemblies, [Venue: G – 05]	24th June to 3rd July, 2019
07.	Prof. Parbhakar, Dept. of Mechanical Engg. & Dept. of Production Engg	Essential for NX Designers, [Venue: G –05]	28th May to 22nd June, 2019
		3- D Printer [Venue: G –05]	24th June to 3rd July, 2019
08.	Dept. of Electrical Engg.	Basics of Induction Motor, [Venue: G -06]	28th May to 22nd June, 2019
		Basics of AC – DC Drives, [Venue: G -06]	24th June to 3rd July, 2019
09.	Dept. of Electronics Engg.	Basics of Induction Motor, [Venue: G – 06]	28th May to 22nd June, 2019
		Basics of AC – DC Drives, [Venue: G -06]	24th June to 3rd July, 2019
10.	Dept. of Electrical Engg.	Basic of PLC [Venue: G – [Venue: G –08]	28th May to 3rd July, 2019
11.	Dept. of Electronics Engg.	Basic of PLC, [Venue: G –08]	28th May to 3rd July, 2019

Some of the glimpses of the Siemen's Lab are:















Nano Technology Lab

With the installation, commissioning as well as a workshop on PQMS, STM and QSAW during 8th to 12th of January 2020, the long awaited desire of the institute to establish a new nano technology lab has been commenced in the New year 2020 under the leadership of the Director DK Singh of the institute and Dr B N Roy professor metallurgical engineering department of the institute.

In the month of March 2020 another very important machine chemical vapour deposition has also been installed, commissioned and 03days workshop related to CVD has been completed from 16th to 18th of March 2020.

By the machines, an environment of developing the concept of Nanotechnology has been initiated in real sense of understanding. Since the day of its inception both faculties and the students of the institute started generating and developing the knowledge available in this domain.

It was the time of examination in the institute even though some of the faculties of different departments and students of metallurgical Engineering has got the special knowledge of using the above mentioned equipments of nanotechnology .They attended the workshop arrange due course of time in the month of January and March 2020

Inspite of the scarcity of specialised faculties of this of this field, we are trying our best to use the machines for what it is made it is made in the form of conducting regular classes on it as well as refresher courses to the already employed persons available in the research organisation of CSIR laboratories and production units like Tata Steel and Bokaro Steel.

During the initial stage of our movement the effect of Covid-19 came into our country and in turn in our institute in the form of lockdown and unfortunately we are still awaiting for further going ahead with the work on these machines.

No doubt machines as mentioned above are available in the IT building and in the Metallurgical Engineering Department of the institute but difficult to run the machine in absence of the students and others.



IOT Lab

We have state of the art IOT lab located at second floor of IT building. It has established in the month of October 2019. Most of the equipments and kits are from Texas Instruments and National Instruments. It has following equipments apart from computers projector etc.

Industrial IoT Educational Software

Systems Engineering Software: Professional Suite

Evaluation Board 1, 2, 3 &

Low power wireless transceiver extension kit

SIM800C 2G- board USB based

4G-SIM7600 board

12-key capacitive touch numeric keypad with LED backlighting and proximity wake-up

Evaluation Module 1

IoT Enabled ARM® Cortex®-MCU Connected Development Kit

Sensor Hub (Set of sensors)

Educational Booster Pack

Robotic Systems Learning Kit

FPGA Board with PMOD(Accessories) For Internet Of Things Lab

Embedded Hardware for Data Acquisition and Control Application

IOT Evaluation Kit

Wi-Fi® Module

Wireless microcontroller Development kit

Starter kit

Development Board Etc.

Activity Report:

- Workshop on IoT was conducted during 14th -18th October 2019
- Third Year students are being trained in this lab as Co-curricular and Industry readiness activity, two batches have been trained so far.
- Final year projects are being done in this lab.

**GATE****1. Activities organized in the Institute to improve the performance of the students in GATE:**

A) Institution Level: NPIU empanelled service provider The GATE Coach has provided GATE training to 602 students of all branches for academic year 2019-20 in BIT Sindri.

2. Department wise performance of students in GATE:

Academic Year	Name of Departments	No. of students Appeared in GATE	No. of students Qualified in GATE	Highest Score in the department	Remarks
2017-18	Chemical	67	12	635	
	Civil	77	26	748	
	CSE and IT	49	07	600	
	Electrical	91	32	598	
	ECE	48	04	496	
	Mechanical	81	52	882	
	Metallurgy	43	22	584	
	Mining	43	20	819	
	Production	31	05	519	
2018-19	Chemical	81	14	473	
	Civil	63	36	733	
	CSE and IT	61	15	496	
	Electrical	82	31	700	
	ECE	51	10	401	
	Mechanical	81	29	790	
	Metallurgy	51	03	569	
	Mining	52	21	626	
	Production	36	04	548	
2019-20	Chemical	43	12	473	
	Civil	92	26	607	
	CSE and IT	40	13	496	
	Electrical	82	32	622	
	ECE	36	10	770	
	Mechanical	81	31	777	
	Metallurgy	49	10	610	
	Mining	52	12	622	
Production	36	07	625		



Clubs, Societies & Student Chapters

Sl.	Name	Activities	Website / Facebook page
1.	Sarjana	Media of bit, soft skill, personality, development	https://bitsarjana.com/
2.	Model Club	Technical activities, hackathon, Technical festival	http://www.modelclubbit.com/
3.	Rotract Club	Blood donation camp, social activities	http://rotaractsindri.com/
4.	Leo Club	Socio-cultural activities, book donation camp	http://www.bitsleo.com/
5.	Sports Club	Sports activities Sports festival	https://www.facebook.com/officialsportsclubbitsindri/
6.	Arts Club	Cultural Festivals	https://www.facebook.com/BITSArtsclub/
7.	Cultural Society	Cultural Exchange , Specially ST Students	https://www.facebook.com/bitsindrics/
8.	Gandhi Rachnatmak Samiti	Socio-cultural cum technical club, And Library	https://www.facebook.com/grsclubsindri/
9.	Painting Wings	Artists by heart, techies by mind, we are Painting Wing Club BIT Sindri,	https://www.instagram.com/painting_wing/?hl=en
10.	Photographic Club	Photography skill	https://www.facebook.com/phc.bitsindri/
11.	ECO Club	Eco friendly environment	https://www.facebook.com/pages/Eco-Club-BIT-Sindri
12.	IETE Chapter	IETE	https://www.facebook.com/ietebits/
13.	ISTE Chapter	Indian Society For Technical Education	https://www.facebook.com/pages/ISTE-Students-Chapter-BIT-Sindri
14.	SAE India BIT Sindri	socio-cultural cum technical club, And Library	https://www.facebook.com/grsclubsindri/
15.	Prayas India	Presently more than 800 children are getting free education.	http://www.prayaasindia.org
16.	Literary Society	This club was established in 1984. Its punch-line is VOX POPULI, meaning "voice of the people".	https://www.facebook.com/Literary-Society-BIT-Sindri-1548048985483555/



MODEL CLUB

Model Club is an attempt to manifest the technical mindset, personality development and success stories of this premier technical institution of Jharkhand. This club holds the distinction of being a technical club established by the BIT administration in the Year 1976 for conducting technical activities for the young technocrats of BIT Sindri. Since its establishment, the club has always been on an ascent to scaling new heights every year by organizing various technical events. Model Club is an organization that is inherently associated with diffusion of science and technology in would-be technocrats. Concentrated solely in the BIT Sindri campus, the organization strives to sync the college with latest technological trends by organizing tech-events, seminars and guest lectures by eminent personalities.

Model Club's success year after year is backed up by a sizeable portion of students, professors, commercial giants and intellectuals alike. Model Club is a hub of about 60 committed students (about 15 students belonging to every year) who have been extracted out of the best minds of the state and country making it the best work force available possible. Model Club members are trained to excel at professional capacities through methods, which are prerequisites for personality development, in the weekly general meetings.

Presently, Model Club members engage in the execution of the technical revolution in the campus. Round the year Model Club organizes workshops, seminars, guest-lectures, invited talks and alike events including SANDHAAN- the annual techno-management fest of B.I.T. Sindri.

Activity organized:

S.No.	Name of Activity	Date	No. of participants
1	TECH-EX 19 (TATA STEEL)	03/03/19	4
2	MR/MS ENGINEER (TECHNICAL QUIZ)	14/03/19	482
3	EXPOZITIO (TECHNICAL PAPER PRESENTATION)	16/03/19	31
4	TECH FEST-19 (BIT SINDRI PARTICIPANTS)	17/03/19	534
5	SANDHAAN19 (OUTSIDE PARTICIPANTS)	17/03/19	142
6	ROBOTICS	18/03/19	284
7	Junior Modex (SCHOOL STUDENTS)	18/03/19	67
8	DA VINCI CODE	21/03/19	207
9	BITSSA ALUMNI MEET-19	20/11/19	84
10	Induction Program	30/07/19	600
11	Listiquiz	20/09/19	58



12	AITISM (SAIL RND RANCHI)	19/10/19	8
13	Techie of The Year (INNOVATION COMPETITION)	18/10/19	34
14	The CEO 3.0	25/11/19	62
15	T2B (ENTREPRENEUR HACKTHON)	02/02/20	42
16	Junior Scientica (SCHOOL QUIZ)	08/02/20	1200
17	Senior Modex	15/02/20	17
18	Model Display	22/02/20	12
19	TECH-EX (TATA STEEL)	03/03/20	2



Entrepreneurship Cell

BIT, Sindri was started in 1949. Since its inception, it has been counted among prestigious institutions of the nation to provide valuable human resource for the industry & society through the excellence in technical education and scientific research. The institute is controlled administratively by Department of Higher, Technical Education and Skill Development, Govt. of Jharkhand, Ranchi. The college today offers B. Tech courses in 10 disciplines of engineering and 10 M.Tech. specialization. It has sprawling campus of 450 acres of land with separate buildings for each discipline, 26 hostels in the campus catering more than 3000 students. Our college has state of art infrastructure, modern lab facilities and many more. On 5th September 2017, Honorable Chief Minister Shri Raghubar Das inaugurated Centre for Excellence Lab (Siemens Lab), where 14 advanced labs like Robotics, Artificial Intelligence, Machine Learning, 3-D printing, RobCAD, Mechatronics, Automation, Process Instrumentation, Fast Prototyping etc had been set-up. For facilitating and supporting start-ups in college, 'Start-up Cell' was formed in November 2017. Besides mentoring students on startup ideas, the cell has been organizing various programs on regular basis to boost startup ecosystem in and around the campus. Two start-ups 'Odigos World' and 'The Hello Doctor', founded by third year B.Tech. students, were selected by S.E.B.2 and two more startups were selected by S.E.B. 4 for incubation in Atal Bihari Vajpayee Innovation Lab. We have a 2500 sq. ft. Incubation Centre which is fully equipped with furniture, computers, internet connections (24x7), classroom, conference hall, meeting room, incubatees sitting space and other modern utilities in a single house. It can accommodate more than 40 incubatees at a single time. The centre is dedicated to help the student community and graduate start-ups and help entrepreneurs turn ideas into viable businesses.

We have MoU with Atal Bihari Vajpayee Innovation Lab to set-up startup culture not only for our Institute but also to promote innovative youths across the state. Our aim is to provide bright and young innovative mind with a space where they can give final shape to their prototype.

VISION

- *Intended to build a strong ecosystem conducive for the growth of start-up activities in order to drive sustainable economic growth and generate large-scale employment opportunities within the state as well as the nation.*

MISSION

- *To facilitate start-up activities for the students*
- *To motivate and inspire students*
- *To equip them with the necessary skills for implementing innovation and design*
- *To provide necessary assistance*

**OBJECTIVES OF ENTREPRENEURSHIP CELL**

- To create a start-up ecosystem
- To promote creative thinking and efficient work culture
- To Develop a Critical Mass of Motivated Students & Faculties with Entrepreneurial Orientation & Skill
- To Enhance In-House Competency Development to Serve Potential and Early Stage Entrepreneurs and Student Innovators at the Institute.
- To Strengthen the Inter Department and Inter-Institutional linkage, Incubators and Other Ecosystem Enablers at Different Levels.
- To secure finance through venture capitalists.
- To convert innovations into marketable products

Sl. No	Name of Activity	Speaker/ Facilitator	Date	Venue	No of Participants -Details	Outcome of the activity
01	Jharkhand Startup Hackathon 2019	Team Sahajya (Jamshepur) from BIT Sindri	22 nd -23 rd June 2019	Hotel Chanakya BNR, Ranchi		Team Sahajya (Jamshepur) from BIT Sindri selected for the final event of Jharkhand Startup Hackathon 2019
02	Mr. Karan Raj Mehta (Civil Engg. Final Year, 2016 Batch) has participated in Workshop on "Business Communications Training for Entrepreneurs" organized by ABVIL and US Consulate General Kolkata Ms. Monica Shie		23.8.19 to 28.8.19	ABVIL, 2 nd Floor, New Excise Building, Kanke Road, Ranchi		Won 3 rd Prize.
04	Expert talk on "The Scenario of Startups in India" under Startup Induction Program 2019	Prof. D.K.Singh (Director, BIT Sindri) and Dr. Prakash Kumar (Prof. in Charge, Startup and Incubation Cell)	4 th September 2019, 9.30AM for Group-X & 2.30PM for Group-Y	C-51, Conference Hall	200-Students of 1 st semester along with Startup Coordinator, Co-coordinator and Student Coordinators of various cells of Startup	The objectives of the Startup Induction Program were: To give an idea about the startup, To identify the dreamers for startup and to create awareness regarding Indian startups- issues, challenges and opportunities.



05	First Annual Innovation Festival of MIC, Launch of AICTE Quality Initiatives & VC's Meet on Student Induction Programme		11th September 2019	All India Council for Technical Education (AICTE), New Delhi	Two Participants from BIT Sindri 1. Mr. Rakesh Rohan Ms. Rupali Kumari	
06	Mr. Siddhant Srivastava (Chemical Engineering, 3 rd Year) and Mr. Abhinav Prakash (ECE, 2 nd Year) have participated in "Catch Them Young Boot Camp" organized by American Centre		13.9.19 to 15.9.19	Ram Krishna Mission Institute of Culture, Kolkata		Mr. Siddhant Srivastava was one of the 10 finalists who pitched his idea at the American Consulate, Kolkata on the final day in front of Mr. Erik Azulay, Director of Nexus Startup.
07	Workshop on 'Intellectual Property Rights'	Mr. Satyadeep Singh, Sr. Legal Consultant, National Law School of India University (NLSIU), Bengaluru and Mr. Vivek Shukla, Legal Consultant National Law School of India University (NLSIU), Bengaluru.	17 th September 2019	A-26 (Conference Hall), BIT Sindri	150-Faculty Members, Students, Coordinators of Startup & IP Cell and Media Persons	The themes of the talk were: 1. Role of IP in India Cyber Security and Data Protection in Current Scenario
08	Lufthansa Startup Expo 4	Expo focused sharply on funding this year and facilitated over 2000 investor meetings at the event.	28 th September	Gurugram, Haryana	Karan Raj Mehta (Civil Engg. 2K16) has participated in this event	
09	Innovation Day (On the occasion of Dr. A.P.J. Abdul		15 th October	A-26 Conference Hall, BIT Sindri	120 Participants (Faculty Coordinators, IIC2.0, Students, Coordinators	Slogan, Debate, Logo and Poster Competition



	<i>Kalam's Birth Anniversary</i>				<i>of Startup & Innovation Cell and Media Persons</i>	
10	CONCETTO 19	<i>Annual Techno-Management Fest of IIT(ISM) Dhanbad</i>	<i>21st Oct 2019</i>	<i>IIT(ISM) Dhanbad</i>	<i>More than 20 Teams</i>	<i>Hackathon</i>
11	<i>Entrepreneurship Summit 2019</i>	<i>Mr. S.N. Sharma, Mr. Gaurav Singh, Mr. Binod Prakash, Mr. Ravi Singh Chaudhary, Mr. Sumit Kumar, Mr. Amar kumar Yadav, Mr. S.S. Garuriyar, Ms. Kumud Sharma, Mr. Chandrakant Singh, Mr. Amit Roy, Mr. Saurav Karmakar, Mr. Santosh Anshumali, Mr. Balwant Lal, Mr. Suresh Kumar Singh, Mr. Kamalnath</i>	<i>15th to 17th Nov 2019</i>	<i>A-26 Conference Hall, BIT Sindri</i>	<i>175 Participants (Faculty Coordinators, IIC2.0, Students, Coordinators of Startup & Innovation Cell and Media Persons</i>	<p>THEME OF SUMMIT:</p> <ul style="list-style-type: none"> <i>Introduction to Startup Eco System</i> <i>Meet the Entrepreneurs</i> <i>Motivational Talk</i> <i>Idea Pitching</i> <i>Mentoring Session</i> <i>Industry Interaction</i> <p><i>The objective of the Summit is to build a startup ecosystem which will promote young and innovative entrepreneurs to have new startup companies and to excel in their business.</i></p>
12	<i>Hackathon 2019</i>	<i>18 Teams from different States (NIT Ja</i>	<i>16th to 17th Nov 2019</i>	<i>A-27 Discussion Hall and F 9 of IT Building, BIT Sindri</i>	<i>62 Participants from 18 Teams</i>	<i>1st Prize won by NIT Jamshedpur Team in the Problem category Quality Healthcare and 2nd Prize won by BIT Sindri Team (Open Innovation- Detecting time stamp of spoken words in a video) and 3rd Prize (Quality Healthcare and Efficient Roadways) won by BIT Sindri Team</i>
13	<i>Special Talk on "Opportunitie</i>	<i>Mr. Abhishek Rala (Global Manager, Regulation &</i>	<i>25th Nov. 2019</i>	<i>A-26 Conference</i>	<i>150 Participants</i>	<i>The themes of the talk were:</i>



	s for Startups in India”	Compliance, APPLE, USA)		Hall, BIT Sindri	(Faculty Coordinators , IIC2.0, Students, Coordinators of Startup & Innovation Cell and Students of 2 nd , 3 rd and final year	Startups- Issues, Challenges and Opportunities
14	Workshop on “Patent Filing”	Prof. P.K.Sadhu, EED, IIT(ISM), Dhanbad and Dr. Indira Banerjee, L S, DAVAR, Kolkata.	18 th January 2020	A-27 Discussion Hall	75 Participants	The theme of the workshop was to create awareness regarding patents and its filing.
15	Internal Hackathon		19.1.2020	A-27 Discussion Hall	14 teams competed out of which 5 teams were selected for software edition and 2 teams for Hardware edition.	In the event, Dr. D.K. Singh, honorable Director , BIT Sindri, Dr. R.P. Gupta SPOC(single point of contact) for SIH 2020 and Mr. Dinesh Kumar Prabhakar, Mr. Shesh Narayan Sahu, Dr. Poulami Dalapati , Dr. Pooja Sharma, judge and Mr. Ananth Raj were the judge for the event.
16	Expert Talk on Innovation, Incubation and Entrepreneurship	Dr. Arunaditya Sahay, Professor of Strategic Management and Dean (Research), BIMTECH, Greater Noida	10.2.2020	A-26 Conference Hall, BIT Sindri	150 Participants (Faculty Members, Coordinators of Startup & Innovation Cell and Students of 2 nd year	The theme of the workshop is to create awareness regarding Innovation, Incubation and Entrepreneurship in the campus.
17	Start-up awareness and development Programme	Mr. Shantanu Banerjee and Mr. Pankaj Kumar	25.2.2020	A-27 Discussion Hall.	60 Participants (Faculty Members, Coordinators of Startup & Innovation Cell and Students)	The Start-up “Shuruaat TX” & “Morph Soft” team members have shared their company’s journey experiences and technical details of their prototype development.
18	Workshop on Startup and Entrepreneurs	Prof. Satish K Sinha (Chairman CDC) and	29.2.2020	Management Hall,	20 Participants (Including	Smile Drive (Abhinav Shah and Sandeep Sarkar 2 nd



<i>hip Development</i>	<i>Mr. Shantanu Banerjee (Shuruaat TX)</i>		<i>IIT(ISM) Dhanbad</i>	<i>Idea Presenters)</i>	<i>Year, Mechanical Engg., BIT Sindri) has got 2nd Prize in Startup and Entrepreneurship Development Programme at IIT(ISM) Dhanbad in collaboration with Digital Raasta, Dhanbad.</i>
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Expert talk by Prof. D. K. Singh, Director, BIT Sindri on “The Scenario of Startups in India” under Startup Induction Program 2019.



Workshop on ‘Intellectual Property Rights’

SARJANA

Sarjana is the Editorial Board of BIT Sindri and the official student media body. We are responsible for the publication of “Sarjana”, the annual bilingual magazine of BIT Sindri covering equally, the articles in English and Hindi. It gives an insight into Student Affairs, clubs and societies, events and also include, technical as well as literary articles.

The latest edition (34th edition) of Sarjana was launched on 29th November 2019.

As the student media body, Sarjana is known as the 'mirror' of current happenings on the campus updated on its website(www.bitsarjana.com) which covers all college events and contains reports of all happenings in college.

Patron – Prof. (Dr.) D.K. Singh, Director, B.I.T. Sindri

Professor-in-Charge – Prof. (Dr.) Vijay Pandey (Professor, Department of Mechanical Engineering)

Assistant Professor-in-Charge – Dr. Arvind Singh (Assistant Professor, Department of Chemical Engineering)

Editor-in-Chief – Anibrato Adhikari. (B. Tech, 3rd Year Department of Information Technology).



Batch of 2016, 2017 and 2018



Batch of 2015, 2016, 2017 and 2018



Batch of 2014, 2015, 2016 and 2017



Activities Organized:

S. No.	Name of Activity (Year 2019-20)	Date	No. of Participants
1.	हिंदी पखवाड़ा:		390
	• हिंदी दिवस	14 Sept 2019	
	• Literary Talent Hunt	17 Sept 2019	
2.	Diwali with Sarjana	25 Oct 2019	37
3.	Vistara (An Online Writing Event)	28 Dec 2019	45
4.	मातृभाषा दिवस	21 Feb 2020	200
5.	Bloom (“Coloured” selfies and captions)	9 Mar 2020	20
6.	मनन - Voice Your Opinion	22 Mar 2020	120
7.	Memoirs of BIT (Writing Event For Final Years)	15 Apr 2020	Ongoing



Sports Club

Sports club of BIT. Sindri, the only sports organising body of our college has its well renowned history for more than 55 years. It is the only body to organise all sporting activities held in the campus. It works towards promotion of sports among students. Main events conducted are: (i) Pratifwandwa, the annual indoor winter sports event, (ii) Spardha, the annual athletic meet, (iii) Kho-Kho, specially for girls, (iv) Handball Tournament for girls, (v) Inter Branch Football Tournament, (vi) Inter Branch Volleyball Tournament, (vii) Inter Branch Cricket Tournament etc. Sports club have about 50 registered members. Under sports club, there are two Gym rooms, one indoor game room, and two big fields for outdoor games.

Activities:

Session: 2019-2020

<i>S. No.</i>	<i>Name of Activities</i>	<i>Date</i>	<i>No. of Participants</i>	
<i>1.</i>	<i>Inter Branch Football & Khokho Tournament</i>	<i>19.10.2019 to 22.10.2019</i>	<i>Ten branches</i>	
<i>2</i>	<i>Run for Unity</i>	<i>31.10.2019</i>		
<i>3.</i>	<i>VAJRA, Mega Sports event at BIT, Mesra, Ranchi</i>	<i>08.11.2019 to 10.11.2019</i>	<i>66 participants</i>	<i>Runner up in Football Runner up in Volley Ball (Boys & Girls)</i>



Institution of Electronics and Telecommunication Engineers (IETE)

IETE Students' Chapter, BIT Sindri is a part of the national organization IETE and was established in BIT Sindri in 2007. It primarily focuses on the development of the technical and managerial skills of its members and that of its fellow students in the college. Being a part of an active and thriving student body, its members strive to keep themselves and their campus mates up-to-date on interesting events and topics. For the wholesome development of an individual, general seminars and meetings are organized to enhance the personality of an individual as well as his communication skills. As part of our technical drives we conduct seminars and workshops every year. Trying to provide the latest technical skills to our participants and members is always our top priority. We also organize the annual Techfest of BIT Sindri– Tech Udbhav to provide students a platform to showcase their technical knowledge and skills.

Activity Organized

- 1) **PUBG CAMPUS CHAMPIONSHIP**: An in-house gaming event for all the years where they compete in a mobile platform game as teams.
- 2) **THE UNICORN**: A mobile app-oriented entrepreneurial competition; open for all the colleges in Jharkhand
- 3) Pre-events for **Tech-Udbhav' 20** like **E-KRYPTICS** and **GRAFFITI** were organized before the disruption of regular activities due to COVID-19.

S. NO.	Name of the event	Date	No. Of Participants
1	PUBG CAMPUS CHAMPIONSHIP	September 2019	300
2	THE UNICORN	October 2019	32
3	E-KRYPTICS	February 2020	155
4	GRAFFITI	March 2020	18



International & National Relation and Collaboration

The institute is in a constant pursuit for international and national collaboration, over the academic years Memorandum of Understanding (MOU) has been signed with following Universities, Research Organization and Industries:

<i>Sr. No</i>	<i>Name of Organization</i>	<i>Date of MOU</i>
<i>1</i>	<i>Tata Steel Ltd, Jamshedpur</i>	<i>23.02.2017</i>
<i>2</i>	<i>CIMFR, Dhanbad (A unit of CSIR)</i>	<i>23.06.2017</i>
<i>3</i>	<i>IIT (ISM) Dhanbad</i>	<i>26.07.2017</i>
<i>4</i>	<i>Steel Authority of India Ltd, Ranchi</i>	<i>04.08.2017</i>
<i>5</i>	<i>CTIF Global Capsul (CGC), Denmark</i>	<i>19.11.2017</i>
<i>6</i>	<i>Tata Institute of Social Science, Mumbai</i>	<i>09.12.2017</i>
<i>7</i>	<i>Perfectice Eduventure Pvt. Ltd.</i>	<i>14.01.2018</i>
<i>8</i>	<i>Central Glass & Ceramic Research Institute(CGCRI), Kolkata</i>	<i>04.03.2019</i>
<i>9</i>	<i>Atal Bihari Vajpayee Innovation Lab (Jharkhand Innovation Laboratory)</i>	<i>23.06.2019</i>



Alumni Meet

An organization's alumni are the reflection of its past, representation of its present and a link to its future.

Alumni functions as a nodal agency for maintaining a liaison with the alumni all over the world and to involve them in the development of the institute. It promotes and encourages exchanging professional knowledge by undertaking and facilitating conference's seminar's lectures and meetings amongst alumni, students, faculty and others. Our Mission is to provide value based technical education to mould the character of younger generation through synthesis of science and Spirituality, so that their earnest endeavor to achieve prosperity in life is matched by an ardent desire to extend selfless service to the society, each complementing the other. We endeavor to impart quality education for the advancement of mankind and to help build responsible and sensitive human beings to make this world a better place to live.

Annual Alumni Meet Mother Chapter

As we know, Alumni meet is a prestigious occasion providing an appropriate forum to the esteemed alumni to share their ideas, success stories to reposition BIT sindri as one of the premiere institute in India.

By the great effort by BITSAA Executive committee especially Shashank and Sweta, a successful celebration of reunion was conducted at Prof. Des Pande Auditorium under the guidance for Patron of BITSAA Prof D.K. Singh on November 18, 2018.

Special attraction, first time BIT Sindri distinguished Alumni Award and BIT Sindri Excellence Award were presented in recognition of their contribution for uplift of the institute, excellence in their profession, academic carriers and through excellent services rendered for their alma mater, respectively.

On the last day of the three-day Sharad Utsav, the BIT Sindri Global Alumni Meet Mother Chapter was duly launched in the MC courtyard with a lamp blazing on Nov 19, 2019 by the great effort of BITSAA new executive committee especially KK Thakur and MN Karan.

Sl.	Name of Recipient	Branch / Entry Batch
B. I. T. SINDRI DISTINGUISHED ALUMNI AWARD 2018		
1.	Dr. Krishna Pal Singh	Mechanical - 1967
2.	Dr. Yogendra Chadda	Mechanical - 1957
3.	Dr. Uday Kumar Sinha	Metallurgy - 1960



4.	<i>Dr. Neil Dwivedi Pundit</i>	<i>Tele Communication - 1961</i>
5.	<i>Mr. Shree Narayan Sharma</i>	<i>Chemical - 1963</i>
6.	<i>Dr. Anil Kumar Singh</i>	<i>Metallurgy - 1964</i>
7.	<i>Dr. Ramjee Prasad</i>	<i>Tele Communication - 1968</i>
8.	<i>Prof. S. S. Jamuar</i>	<i>Tele Communication -1967</i>
9.	<i>Shri Ramesh Yadava</i>	<i>Electrical - 1971</i>
<i>B. I. T. SINDRI DISTINGUISHED ALUMNI AWARD 2019</i>		
1.	<i>Mr. Ranjit Sinha</i>	<i>Chemical-1962</i>
2.	<i>Mr. Prabhat Sinha</i>	<i>Chemical-1963</i>
3.	<i>Mr. Braj K. Singh</i>	<i>Mechanical-1964</i>
4.	<i>Mr. R.N. Singh</i>	<i>Civil-1966</i>
<i>B. I. T. SINDRI Excellence Service Award-2018</i>		
1.	<i>Shri Rajendra Kumar Choudhary</i>	<i>Production – 1977</i>
2.	<i>Shri Shashank Shekhar Garuryar</i>	<i>ECE - 1982</i>
3.	<i>Smt. Sweta Kumari</i>	<i>ECE -1994</i>
<i>B. I. T. SINDRI Excellence Service Award-2019</i>		
1.	<i>Mr. Bal Krishna Barnwal</i>	<i>Mechanical-1978</i>
2.	<i>Mr. Kamal Nath</i>	<i>ECE-1984</i>
3.	<i>Mr. Pawan Ojha</i>	<i>ECE-1989</i>

Every year, scholarships were given by alumni to financially weak and meritorious students as well as those did excel in extracurricular activities.

The fragrance and memories of BIT Institute are always in mind.







Silver Jubilee Celebration

- *Celebration of the day of reunion of the old man and New B.I.T. with cheers and happiness held on Nov 30 and Dec 01, 2018 of Graduation Batch 1989-1993*
- *A special program was organized on the occasion of Silver Jubilee for the students of 1990-1994 batch on 19 November 2019.*
- *It helped us to bond forever. Truthful discussions were made for the betterment of the institute as well.*

