



Annual Report 2018-19



BIT SINDRI, DHANBAD,
GOVERNMENT OF JHARKHAND
DEPARTMENT OF HIGHER,
TECHNICAL EDUCATION & SKILL DEVELOPMENT

**CONTENTS**

Director's Message	3
Institute Basic Information	4
BOG Members	5
List of Deans	6
List of Office Bearers	7
TEQIP-III Officials	8
Organization Structure	9
Faculty Information	10
Staff Information	15
Students Information	20
Academic Calendar	21
List of UG & PG Programs	22
Facilities & Technical Support	23
Mechanical Engineering Department	26
Electrical Engineering Department	34
Production Engineering Department	46
Metallurgical Engineering Department	54
Civil Engineering Department	58
Chemical Engineering Department	64
Mining Engineering Department	73
Electronics & Communication Engineering Department	78
Computer Science Engineering and IT Department	87
Humanities Department	99
Geology Department	100
Mathematics Department	104
Physics Department	105
Chemistry Department	106
Library	109
Financial Details	111
Gate	112
Clubs, Societies & Student Chapters	113
Alumni Meet	114
Transition rate	118



Siemens Centre for Excellence	119
Placement Data	132
Collaborative Activities	134
Staff Capacity Program	135
Technical, Sports & Cultural Events	138



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.



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, Hazaribagh



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

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Dr. U.K. Dey

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- Head & Professor, Mining Engineering
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Dr. Pankaj Rai

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Dr. Vikrama Pandey

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- Professor & Head, Civil Engineering
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Dr. Ghanshyam

- Dean Alumni Affairs
- Professor, Physics
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List of Office Bearers:

Office	Office Bearer		Email Id/Mobile No.
Senior Administrative Officer	Prof. G. Kumar		drgkumar12@gmail.com gkumar@bitsindri.ac.in Mobile: +91 9431123438
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Prof.-in-Charge, Academics (UG)	Dr. Jitu Kujur		kujur.civil@bitsindri.ac.in Mobile: +91-7250980546
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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
Stores Officer	Prof. S.P. Mishra		sanjaypmishra123@gmail.com spmishra@bitsindri.ac.in Mobile: +91 9431169666
Purchase Officer	Dr. Manoj Kumar		Mobile: +91 9431506944



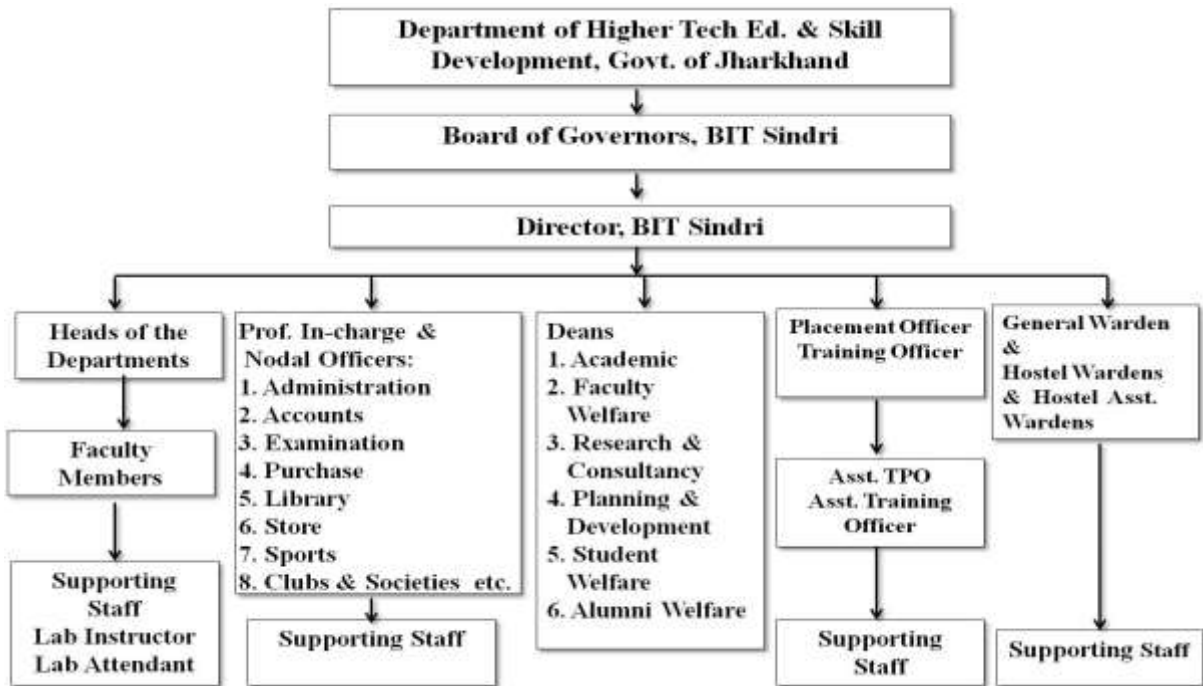
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Prof.-in-charge, Examination dept	Prof Vijay Pandey		vpandeybit@gmail.com Mobile: +91 9431596535
Asst Prof.-in-charge Examination	Mr. Shashi Minhz Dr. J. N. Mahtzo Dr. S Hembrom		sminz.ee@bitsindri.ac.in jnmahto.me@bitsindri.ac.in shembrom@bitsindri.ac.in Mobile: +91 6203782614 +91 9430154294 +91 7004693958

TEQIP-III Officials

Principal Coordinator	Prof. G. Kumar		drgkumar12@gmail.com gkumar@bitsindri.ac.in Mobile: +91 9431123438
Co-Principal Coordinator	Prof. Upendra Prasad		upendra_bit@yahoo.co.in Mobile: +91 7979892998
Co-Principal Coordinator	Prof. Sanjay Kumar Singh		sks2102@gmail.com Mobile: +91 7070654809
Nodal officer	Dr. A. P. Sinha		apsinha@bitsindri.ac.in Mobile: +91 8969008680



Organisation structure



Hierarchical set up of BIT Sindri



Faculty Information

Mechanical Engineering Department				
S.No	Name	Designation	Department	Date of Joining
01	Dr. S.C. Roy	Professor & Head	Mechanical Engg.	17-01-1983
02	Dr. Sanjay Kumar Singh	Professor	Mechanical Engg.	07-09-2006
03	Dr. Monoj Kumar	Professor	Mechanical Engg.	19-09-2006
04	Dr. Vijay Pandey	Professor	Mechanical Engg.	01-02-2018
05	Prof. Mithilesh Kumar	Associate Professor	Mechanical Engg.	17-10-1994
06	Prof. Manoj kumar Singh	Associate Professor	Mechanical Engg.	29-10-1999
07	Prof. Dhiraj Jha	Assistant Professor	Mechanical Engg.	19-09-2006
08	Dr. Sunil Kumar Choudhary	Assistant Professor	Mechanical Engg.	11-09-2006
09	Dr. Rajan Kumar	Assistant Professor	Mechanical Engg.	07-09-2006
10	Dr. Sunil Kumar	Assistant Professor	Mechanical Engg.	07-09-2006
11	Prof. Naresh Kumar Choudhary	Assistant Professor	Mechanical Engg.	07-09-2006
12	Dr. Rajan Kumar Nayak	Assistant Professor	Mechanical Engg.	07-09-2006
13	Prof. Mahendra Kumar Bhagat	Assistant Professor	Mechanical Engg.	07-09-2006
14	Dr. Ujjwal Kumar Nayak	Assistant Professor	Mechanical Engg.	07-09-2006
15	Prof. Narendra Pratap	Assistant Professor	Mechanical Engg.	07-09-2006
16	Dr. Ravishanker Prasad	Assistant Professor	Mechanical Engg.	07-09-2006
17	Dr. Pankaj Kumar	Assistant Professor	Mechanical Engg.	07-09-2006
18	Dr. Jitendra Nath Mahato	Assistant Professor	Mechanical Engg.	11-09-2006
19	Dr. Subrat Kumar Soren	Assistant Professor	Mechanical Engg.	18-09-2006
20	Dr. Purusutum Kumar Singh	Assistant Professor	Mechanical Engg.	26-02-2018
21	Prof. Animesh Jee Kujur	Assistant Professor	Mechanical Engg.	06-03-2018
22	Prof. Amit Kumar Mishra	Assistant Professor	Mechanical Engg.	07-03-2018
23	Mr. Anish Kumar	Assistant Professor	Mechanical Engg.	04-01-2018
24	Mr. Prabhakar	Assistant Professor	Mechanical Engg.	04-01-2018
25	Dr. Som Nath Saha	Assistant Professor	Mechanical Engg.	03-01-2018
26	Mr. Umesh Chandra Gaur	Part Time Lecturer	Mechanical Engg.	01-08-2018
Civil Engineering Department				
27	Dr. Vikarma Pandey	Professor & Head	Civill Engg.	03-09-1984
28	Dr. Ranvijay Singh	Professor	Civill Engg.	30-10-2017
29	Dr. Uday Kumar Singh	Professor	Civill Engg.	19-10-1994
30	Dr. Krishna Murari	Professor	Civill Engg.	21-10-1994
31	Prof. Ajit Kumar Singh	Associate Professor	Civill Engg.	06-05-1983
32	Prof. Shiv Kumar	Associate Professor	Civill Engg.	17-10-1994
33	Prof. Chitranjan Sharma	Associate Professor	Civill Engg.	17-10-1994
34	Prof. J.P. Singh	Associate Professor	Civill Engg.	17-10-1994
35	Prof. Shyam Kishor Kumar	Associate Professor	Civill Engg.	17-10-1994
36	Prof. P.K. Sharma	Associate Professor	Civill Engg.	17-10-1994
37	Dr. Jitu Kujur	Associate Professor	Civill Engg.	20-12-2017
38	Prof. Nishi Kant Kishku	Assistant Professor	Civill Engg.	12-09-2006
39	Mr. Abhijit Anand	Assistant Professor	Civill Engg.	04/01/2018
40	Mr. Rabindra Kumar	Assistant Professor	Civill Engg.	03/01/2018
41	Ms. Sudha Das Khan	Assistant Professor	Civill Engg.	04/01/2018
42	Mr. Iqbal Sheik	Assistant Professor	Civill Engg.	04/09/2018
43	Ms. Saroj Meena	Assistant Professor	Civill Engg.	04/09/2018
Electrical Engineering Department				
44	Dr. Upendra Prasad	Professor	Electrical Engg.	22-02-1993



45	Dr. Pankaj Rai	Professor	Electrical Engg.	27-01-1993
46	Dr. D.K. Tanti	Professor & Head	Electrical Engg.	26-02-1993
47	Dr. F. Ansari	Professor	Electrical Engg.	18-05-1993
48	Dr. Md. Abul Kalam	Associate Professor	Electrical Engg.	14-03-2019
49	Prof. Smt. Rekha Jha	Associate Professor	Electrical Engg.	29-01-1993
50	Dr. Ramjee Prasad Gupta	Assistant Professor	Electrical Engg.	07-09-2006
51	Prof. Shashi Minz	Assistant Professor	Electrical Engg.	07-09-2006
52	Prof. Rajendra Murmu	Assistant Professor	Electrical Engg.	07-09-2006
53	Prof. Nishant Kumar	Assistant Professor	Electrical Engg.	06.03.2018
54	Prof. Praveen Kumar	Assistant Professor	Electrical Engg.	09.03.2018
55	Prof. Amit Kumar	Assistant Professor	Electrical Engg.	09.03.2018
56	Dr. Amit Kumar Choudhary	Assistant Professor	Electrical Engg.	15.03.2018
57	Mr. Anuj Kumar Pandey	Assistant Professor	Electrical Engg.	02/01/2018
58	Mr. Avinash Mishra	Assistant Professor	Electrical Engg.	02/01/2018
59	Mr. Biswaranjan Mishra	Assistant Professor	Electrical Engg.	04/01/2018
60	Mr. Dil Kumar T. R.	Assistant Professor	Electrical Engg.	04/01/2018
61	Mr. Gunturu Vijay Kumar	Assistant Professor	Electrical Engg.	04/01/2018
62	Dr. Kaushik Paul	Assistant Professor	Electrical Engg.	03/01/2018
63	Ms. Kumari Sarwagya	Assistant Professor	Electrical Engg.	04/01/2018
64	Mr. Matta Mani Sankar	Assistant Professor	Electrical Engg.	04/01/2018
65	Mr. Mukhlesur Rahman	Assistant Professor	Electrical Engg.	02/01/2018
66	Ms. Niharika	Assistant Professor	Electrical Engg.	03/01/2018
67	Mr. Rakesh Rohan	Assistant Professor	Electrical Engg.	02/01/2018
68	Mr. Ramesh Devarapalli	Assistant Professor	Electrical Engg.	05/01/2018
69	Mr. Suman Ranjan	Assistant Professor	Electrical Engg.	04/01/2018
70	Mr. Vandan Raj Kamal Alluri	Assistant Professor	Electrical Engg.	04/09/2018
Production Engineering Department				
71	Dr. Prakash Kumar	Associate Professor & Head	Production Engg.	14-07-2000
72	Dr. Rakesh	Associate Professor	Production Engg.	14-07-2000
73	Prof. A.R. Ansari	Assistant Professor	Production Engg.	14-07-2000
74	Mr. Subodh Kumar	Assistant Professor	Production Engg.	18/05/2007
75	Mr. Anand Kumar	Assistant Professor	Production Engg.	03/01/2018
76	Mr. Kashif Hasan Kazmi	Assistant Professor	Production Engg.	04/01/2018
77	Dr. Sumanta Mukharjee	Assistant Professor	Production Engg.	01/09/2018
78	Mr. Mukesh Chandra	Assistant Professor	Production Engg.	05/09/2018
79	Dr. Surya Narayana Panda	Assistant Professor	Production Engg.	03/01/2018
80	Dr. Satish Kumar	Assistant Professor	Production Engg.	07/03/2018
81	Mr. Sourav Acharya	Assistant Professor	Production Engg.	03/01/2018
Metallurgical Engineering Department				
82	Dr. B.N. Roy	Professor & Head	Metallurgical Engg.	24/05/2000
83	Dr. A.K. Rajak	Associate Professor	Metallurgical Engg.	24-05-2000
84	Prof. Sardanand Prasad	Associate Professor	Metallurgical Engg.	09-09-1985
85	Dr. Sagram Hembram	Assistant Professor	Metallurgical Engg.	07-09-2006
86	Prof. Sumit Kumar Sharma	Assistant Professor	Metallurgical Engg.	05.03.2018
87	Mr. Babul Das	Assistant Professor	Metallurgical Engg.	18/01/2018



88	Mr. Mrityunjay Shukla	Assistant Professor	Metallurgical Engg.	25/09/2018
89	Mr. Tvarit Patel	Assistant Professor	Metallurgical Engg.	17/01/2018
90	Mr. Abhinav Dixit	Assistant Professor	Metallurgical Engg.	04/09/2018
91	Mr. Kumar vaibav	Assistant Professor	Metallurgical Engg.	03/01/2018
92	Dr. Debasish Chatterjee	Assistant Professor	Metallurgical Engg.	02/01/2018
93	Mr. Nakkala Gopi Krishna	Assistant Professor	Metallurgical Engg.	17/01/2018
Chemical Engineering Department				
94	Dr. S. P. Singh	Professor & Head	Chemical Engg	14/11/1983
95	Dr. Amit Kumar Gupta	Assistant Professor	Chemical Engg.	12-09-2006
96	Dr. Amar Kumar	Assistant Professor	Chemical Engg.	07-09-2006
97	Prof. Ajay Uraw	Assistant Professor	Chemical Engg.	08-09-2006
98	Dr. Arvind Singh	Assistant Professor	Chemical Engg.	07.03.2018
99	Dr. B. Sujan Kumar	Assistant Professor	Chemical Engg.	05/01/2018
100	Dr. Ch. V. Raghunath	Assistant Professor	Chemical Engg.	03/01/2018
101	Ms. Devina Ratnam	Assistant Professor	Chemical Engg.	04/01/2018
102	Dr. Rupak kishor	Assistant Professor	Chemical Engg.	05/01/2018
103	Dr. Sanjay Kumar	Assistant Professor	Chemical Engg.	04/01/2018
104	Mr. Mahendra Ram	Assistant Professor	Chemical Engg.	03/09/2018
105	Dr. Suneeta Kumari	Assistant Professor	Chemical Engg.	04/09/2018
106	Ms. A. Sameera	Assistant Professor	Chemical Engg.	04/09/2018
107	Mr. B. Kartheek	Assistant Professor	Chemical Engg.	04/09/2018
108	Mr. Deepak Yadav	Assistant Professor	Chemical Engg.	04/09/2018
109	Mr. Subject Patra	Assistant Professor	Chemical Engg.	04/09/2018
110	Mr. Swapnil Singh	Assistant Professor	Chemical Engg.	04/09/2018
111	Mr. Sai Prasad Pati	Assistant Professor	Chemical Engg.	04/09/2018
Electronics & Communication Engineering Department				
112	Dr. Madan Gopal Tiary	Professor & Head	ECE	19/01/2018
113	Dr. Amar Prakash Sinha	Associate Professor	ECE	19/12/2006
114	Dr. Imtyaz Ahmad	Asso. Professor	ECE	07/09/2006
115	Dr. Arvind Kumar	Assistant Professor	ECE	16/09/2006
116	Prof. Smt. Sabita Nayak	Assistant Professor	ECE	08/09/2006
117	Dr. Santosh Kumar Verma	Assistant Professor	ECE	15/03/2018
118	Prof. Smt. Sangita Kumari	Assistant Professor	ECE	01.07.2004
119	Mr. Jagveer Singh Verma	Assistant Professor	ECE	04/01/2018
120	Ms. Kritika Awasthi	Assistant Professor	ECE	05/01/2018
121	Mr. Hanif Ali	Assistant Professor	ECE	16/01/2018
122	Ms. Pritika Singh	Assistant Professor	ECE	05/01/2018
123	Dr. Risha Mal	Assistant Professor	ECE	04/01/2018
124	Mrs. Niharika Shetty	Assistant Professor	ECE	18/01/2018
125	Mr. Praveen Kr. Sahu	Assistant Professor	ECE	02/01/2018
Mining Engineering Department				
126	Dr. U.K. Dey	Professor & Head	Mining Engg.	14/10/1985
127	Mr. Chinmay Mondal	Assistant Professor	Mining Engg	02/01/2018
128	Mr. Manas Kumar Mallick	Assistant Professor	Mining Engg.	04/01/2018
129	Mr. Kapil Kumar	Assistant Professor	Mining Engg	16/01/2018



130	Mr. Neeraj Yadaw	Assistant Professor	Mining Engg.	04/01/2018
131	Mr. Rizwan Hasim	Assistant Professor	Mining Engg	05/01/2018
132	Mr. Saurabh Jain	Assistant Professor	Mining Engg.	04/01/2018
133	Mr. Suman Hessa	Assistant Professor	Mining Engg	05/01/2018
134	Mr. Arpan Halder	Assistant Professor	Mining Engg.	09/01/2018
135	Mr. Tanmay Dasgupta	Assistant Professor	Mining Engg	05/01/2018
Computer Science & Engineering Department				
136	Dr. Subash Chandra Dutta	Assistant Professor & Head	CSE	07/09/2006
137	Prof. Abhay Gyan P. Kujur	Assistant Professor	CSE	08/12/2006
138	Mr. A Ranjith	Assistant Professor	CSE	03/01/2018
139	Mr. Bhawesh Kumar	Assistant Professor	CSE	04/01/2018
140	Mr. Deepak Kumar	Assistant Professor	CSE	03/01/2018
141	Dr. Poulami Dalapati	Assistant Professor	CSE	04/01/2018
142	Mr. Tapan Kumar Nayak	Assistant Professor	CSE	05/01/2018
143	Mr. Vikash Kumar Singh	Assistant Professor	CSE	03/01/2018
144	Mr. Dharmendra Kumar Mahato	Assistant Professor	CSE	17/03/2018
145	Mr. Asim Kumar Pathak	Assistant Professor	CSE	04/01/2018
146	Mr. Bhaskar Mondal	Assistant Professor	CSE	17/01/2018
Information Technology Department				
147	Prof. Rajeev Ranjan	Assistant Professor	IT	31/01/2012
148	Prof. Raghunandan Kumar	Assistant Professor	IT	31/01/2012
149	Prof. Smt. Parbati Mahanto	Assistant Professor	IT	31/01/2012
150	Mr. Panjeet Kumar Lenka	Assistant Professor	IT	04/01/2018
151	Dr. Pooja Sharma	Assistant Professor	IT	05/01/2018
152	Mr. Rupali Kumari	Assistant Professor	IT	03/01/2018
153	Mr. Shesh Narayan Sahu	Assistant Professor	IT	04/01/2018
154	Mr. Anant Raj P	Assistant Professor	IT	19/01/2018
155	Mr. Sachin Kumar Agarwal	Assistant Professor	IT	18/01/2018
156	Mr. Dinesh Kumar Prabhakar	Assistant Professor	IT	16/01/2018
Physics Department				
157	Dr. S.N. Vimal	Professor & Head	Physics	26/09/1991
158	Dr. Ghanshyam	Professor	Physics	14/05/1997
159	Dr. R.K. Verma	Associate Professor	Physics	27/07/2000
160	Dr. Bindeshwer Jha	Associate Professor	Physics	07/01/2000
161	Dr. Swati Modi	Assistant Professor	Physics	04/09/2018
Mathematics Department				
162	Dr. C. Thakur	Professor & Head	Mathematics	11/08/2000 Dept. 14/8/2001 BIT
163	Dr. Sanat Kumar Pandey	Associate Professor	Mathematics	29/10/1999
164	Dr. Ghanshyam Prasad	Assistant Professor	Mathematics	27/02/2018
165	Dr. Priyanka Kumari	Assistant Professor	Mathematics	03/01/2018
166	Dr. Satish Kumar Tiwari	Assistant Professor	Mathematics	04/01/2018
167	Miss Mamta Kumari	Part Time Lecturer	Mathematics	01/08/2018
168	Miss Monal Bharty	Part Time Lecturer	Mathematics	01/08/2018
169	Mr. T P Singh	Part Time Lecturer	Mathematics	01/08/2018
Chemistry Department				



170	Dr. Ranjeet Kumar Singh	Professor	Chemistry	20/03/2013
171	Dr. Sanjay Prasad Mishra	Associate Professor & Head	Chemistry	20/03/2013
172	Dr. Kunal Kumar	Associate Professor	Chemistry	07/09/2006
173	Dr. Manoj Kumar Mishra	Assistant Professor	Chemistry	31/01/2008
174	Mr. Pintu Kumar Mandal	Part Time Lecturer	Chemistry	01/08/2018
175	Miss Ankita Chakraborty	Part Time Lecturer	Chemistry	01/08/2018
Geology Department				
176	Dr. G. Kumar	Professor	Geology	25/03/1992
177	Dr. Promod Kumar Singh	Associate Professor & Head	Geology	30/08/1997
178	Dr. Ajit Kumar Behera	Assistant Professor	Geology	05/01/2018
179	Mr. Manoj Kumar Nayak	Assistant Professor	Geology	04/01/2018
180	Mr. Souvik Mitra	Assistant Professor	Geology	02/01/2018
Humanities Department				
181	Dr. Arvind Kumar	Associate Professor & Head	Humanities	17/10/1994
182	Dr. Sadaf Jamal	Assistant Professor	Humanities	03/01/2018
183	Dr. Sutanuka Banerjee	Assistant Professor	Humanities	03/01/2018
184	Mr. Muni Kant Mishra	Part Time Lecturer	Humanities	01/08/2018
185	Mr. Sumanto Mandal	Part Time Lecturer	Humanities	01/08/2018

**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 Lalan Sharma	Class-III, Teaching	
14	Sri Bhanu Prakash Diwedi	Class-III, Teaching	
15	Md. Saiyad Muzaffar Ahmed	Class-III, Teaching	
16	Sri Lalit Mohan Sharma	Class-III, Non-Teaching	
17	Sri Muninder Kumar	Class-III, Non-Teaching	28-12-1991
18	Sri Abhay Kumar	Class-III, Non-Teaching	22-01-2008
19	Sri Sita Ram Prasad	Class-III, Non-Teaching	14-01-1987
20	Sri Ganesh Kumar Pal	Class-III, Non-Teaching	15-01-1987
21	Sri Vinod Prasad Singh	Class-III, Non-Teaching	18-11-1991
22	Sri Permanand Yadaw	Class-III, Non-Teaching	13-06-1990
23	Sri Niranjan Jha	Class-III, Non-Teaching	26-07-1993
24	Sri Pankaj Kumar Mishra	Class-III, Non-Teaching	19-02-1999
25	Sri Jagat Narayan Prasad	Class-III, Non-Teaching	19-02-1999
26	Sri Bindeshwer Prasad	Class-III, Non-Teaching	19-02-1999
27	Sri Kamlesh Kumar Singh	Class-III, Non-Teaching	19-02-1999
28	Sri Punya Dev Ram	Class-III, Non-Teaching	19-02-1999
29	Sri Jagdish Ravidas	Class-III, Non-Teaching	27-08-1997
30	Sri Udey Shanker Prasad	Class-III, Non-Teaching	26-08-1997
31	Sri Suresh Kumar	Class-III, Non-Teaching	20-04-1999
32	Sri Birendra Kumar	Class-III, Non-Teaching	15-04-1999
33	Sri Shyam Pado Gorai	Class-III, Non-Teaching	02-09-1994
34	Sri Shyam Sunder Rakshit	Class-III, Non-Teaching	21-10-1992
35	Sri Ramanuj Pandey	Class-III, Non-Teaching	<u>01-09-1985</u> 14-10-1998
36	Sri Anil Kumar Singh	Class-III, Non-Teaching	<u>19-04-1989</u>



			14-10-1998
37	Sri Raj Kumar Sharma	Class-III, Non-Teaching	14-04-1999
38	Sri Kaushal Kishore	Class-III, Non-Teaching	<u>28-12-1991</u> 15-07-1999 B.I.T. Sindri
39	Sri Dilip Kumar	Class-III, Non-Teaching	<u>28-12-1991</u> 15-07-1999 B.I.T. Sindri
40	Sri Ram Udey Sharma	Class-III, Non-Teaching	<u>28-12-1991</u> 15-07-1999 B.I.T. Sindri
41	Smt. Usha Jha	Class-III, Non-Teaching	20-02-2009
42	Sri Rajesh Kumar	Class-III, Non-Teaching	30-03-2009
43	Sri Mukesh Kumar Singh	Class-III, Non-Teaching	19-02-2010
44	Sri Abhishek Kumar	Class-III, Non-Teaching	30-08-2013
45	Sri Ravish Kumar	Class-III, Non-Teaching	25-11-2013
46	Sri Kuldeep Das	Class-III, Non-Teaching	04-08-2015
47	Sri Rajesh Kumar Sah	Class-III, Non-Teaching	13-07-2017
48	Sri Kritee Bhusan Kumar	Class-III, Non-Teaching	13-07-2017
49	Sri Sunny Bhusan	Class-III, Non-Teaching	13-07-2017
50	Sri Tuphani Prasad	Class-III, Non-Teaching	20-12-2017
51	Sri Raju Kumar	Class-III, Non-Teaching	20-12-2017
52	Sri Sunny Kumar	Class-III, Non-Teaching	20-12-2017
53	Md. Ekram Ansari	Class-III, Non-Teaching	20-12-2017
54	Sri Sumit Sourav	Class-III, Non-Teaching	20-12-2017
55	Sri Bhuneshwer Singh	Class-III, Non-Teaching	<u>31-01-1991</u> 19-11-1999 B.I.T. Sindri
56	Sri Ramjee Mali	Class-IV	30-12-1993
57	Sri Lakhi Rai	Class-IV	11-07-1994
58	Sri Ramavtar Rajak	Class-IV	14-08-2010
59	Md. Azij Husain Ansari	Class-IV	14-08-2010
60	Md. Mobin Kazi	Class-IV	14-08-2010
61	Sri Shivlal Kumahar	Class-IV	16-08-2010
62	Sri Raj Kishore Mahto	Class-IV	16-08-2010
63	Sri Santi Nath Dutta	Class-IV	16-08-2010
64	Sri Ram Lal Tudu	Class-IV	16-08-2010
65	Sri Mantu Mandal	Class-IV	20-08-2010
66	Sri Rameshwer Singh	Class-IV	16-08-2010
67	Md. Abuddin Ansari	Class-IV	16-08-2010
68	Sri Raju Gorai	Class-IV	19-11-1991
69	Sri Murari Prasad Mandal	Class-IV	01-06-1988
70	Sri Madan Sharma	Class-IV	<u>31-01-1991</u> 10-01-1994 B.I.T. Sindri
71	Sri Ramjee Singh	Class-IV	16-08-1988
72	Sri Sunil Kumar	Class-IV	25-11-1988
73	Sri Shesh Nath Mishra	Class-IV	08-12-1981
74	Sri Vijay Kumar Singh	Class-IV	01-09-1989
75	Sri Dinesh Ram	Class-IV	01-09-1989
76	Sri Ajit Kumar Uraw	Class-IV	01-06-1988
77	Sri Sukar Sikdar	Class-IV	16-08-1988



78	Sri Akhilesh Kumar Tiwari	Class-IV	14-08-2010
79	Md. Sabrati Ansari	Class-IV	14-08-2010
80	Sri Arjun Pramanic	Class-IV	14-08-2010
81	Sri Jiten Kumhar	Class-IV	16-08-2010
82	Sri Mathura Prasad Mandal	Class-IV	16-08-2010
83	Sri Binod Prasad Singh	Class-IV	16-08-2010
84	Sri Golak Pati Mandal	Class-IV	16-08-2010
85	sri Vishnupad Chandra	Class-IV	16-08-2010
86	Sri Dilip Kumar Mahto	Class-IV	16-08-2010
87	Sri Shishir Kumar Mandal	Class-IV	16-08-2010
88	Sri Mantustu Mahto	Class-IV	16-08-2010
89	Sri Dilu Ram Mahto	Class-IV	16-08-2010
90	Sri Samir Kumar Mandal	Class-IV	16-08-2010
91	Sri Viresh Prasad Choudhary	Class-IV	16-08-2010
92	Sri Vijay Kumar Rajak	Class-IV	16-08-2010
93	Sri Mantu Prasad Mahto	Class-IV	17-08-2010
94	Sri Suman Kumhar	Class-IV	16-08-2010
95	Sri Shatrudhan Mahto	Class-IV	16-08-2010
96	Sri Manoj Kumar Sharma	Class-IV	01-06-1988
97	Sri Ajay Ram	Class-IV	19-02-1999
98	Sri Shiv Kumar Ram	Class-IV	01-10-1986
99	Sri Ajay Pandey	Class-IV	16-08-2010
100	Sri Arvind Kumar	Class-IV	16-08-2010
101	Sri Ramdash Rohidash	Class-IV	14-08-2010
102	Sri Sita Ram Mahtha	Class-IV	14-08-2010
103	Sri Uday Singh	Class-IV	13-08-2010
104	Sri Dilip Kumar Rawani	Class-IV	14-08-2010
105	Sri Devnandan Singh	Class-IV	13-08-2010
106	Sri Mithilesh Kumar Singh	Class-IV	13-08-2010
107	Sri Deepak Kumar	Class-IV	16-08-2010
108	Sri Subodh Paswan	Class-IV	14-08-2010
109	Sri Raj Kumar Das	Class-IV	14-08-2010
110	Sri Amal Chandra Nag	Class-IV	14-08-2010
111	Sri Shekhsad Aksha	Class-IV	14-08-2010
112	Sri Sukar Das	Class-IV	14-08-2010
113	Sri Chandi Ravidash	Class-IV	14-08-2010
114	Sri Suresh Kumar Srivastwa	Class-IV	13-08-2010
115	Sri Naval Kishor Kumhar	Class-IV	14-08-2010
116	Sri Santu Gop	Class-IV	14-08-2010
117	Sri Pravin Kumar	Class-IV	14-08-2010
118	Md. Samsad Alam	Class-IV	14-08-2010
119	Sri Kala Chand Mahto	Class-IV	16-08-2010
120	Sri Vinay Kumar Chaudhary	Class-IV	31-01-1991
121	Sri Sudhir Kumar	Class-IV	31-01-1991
122	Sri Dudheshwer Gupta	Class-IV	31-01-1991
123	Sri Saroj Kumar	Class-IV	31-01-1991
124	Md. Fateh Alam	Class-IV	14-01-1987
125	Sri Vinod Ram	Class-IV	27-12-2004
126	Sri Sukhari Raut	Class-IV	16-08-1988
127	Sri Dilip Kumar	Class-IV	20-11-1991
128	Smt. Chinta Devi	Class-IV	24-05-1990
129	Smt. Seema Kumari	Class-IV	28-02-2020



130	Sri Yogendra Jha	Class-IV	16-08-1988
131	Sri Anil Kumar Chaudhary	Class-IV	31-01-1991
132	Smt. Nilam Kumari	Class-IV	14-08-2010
134	Smt. Mangla Hembram	Class-IV	14-08-2010
135	Sri Dinesh Kumar Das	Class-IV	16-08-2010
136	Md. Jainudeen Mansuri	Class-IV	14-08-2010
137	Sri Manoj Kumar Paswan	Class-IV	14-08-2010
138	Sri Dev Narayan Soren	Class-IV	16-08-2010
139	Sri Ajit Kumar Pandey	Class-IV	14-08-2010
140	Sri Shanti Ram Hansda	Class-IV	14-08-2010
141	Sri Dinesh Kumar Rajak	Class-IV	14-08-2010
142	Sri Kanhaiyalal Singh Chaudhary	Class-IV	16-08-2010
143	Sri Lakshaman Ram	Class-IV	14-08-2010
144	Md. Abul Kalam	Class-IV	14-08-2010
145	Sri Tarapad Hembram	Class-IV	16-08-2010
146	Sri Subal Chandra Da	Class-IV	16-08-2010
147	Sri Abhedanand Dutta	Class-IV	14-08-2010
148	Sri Hira Lal Ravidash	Class-IV	14-08-2010
149	Sri Suresh Singh Chaudhary	Class-IV	16-08-2010
150	Md. Abdul Rahman Ansari	Class-IV	16-08-2010
151	Sri Sanjay Kumar Jha	Class-IV	16-08-2010
152	Sri Suresh Chandra Mahto	Class-IV	16-08-2010
153	Sri Lalmohan Rohidash	Class-IV	14-08-2010
154	Smt. Shilamuni Tudu	Class-IV	14-08-2010
155	Smt. Doli Debya	Class-IV	13-08-2010
156	Sri Sadhan Kumar Upadhyay	Class-IV	14-08-2010
157	Sri Lekharam Murmu	Class-IV	14-08-2010
158	Sri Ranjeet Kumar Hazam	Class-IV	14-08-2010
159	Sri Gunit Tudu	Class-IV	14-08-2010
160	Sri Lalit Kumar Pandey	Class-IV	14-08-2010
161	Sri Mahavir Ravidas	Class-IV	14-08-2010
162	Sri Dilip Kumar Rajwar	Class-IV	19-08-2010
163	Sri Sunil Kumar Mishra	Class-IV	14-08-2010
164	Sri Hari Murmu	Class-IV	14-08-2010
165	Sri Tanmay Ghosh	Class-IV	14-08-2010
166	Sri Sambhu Prasad	Class-IV	14-08-2010
167	Sri Bhim Chandra Thakur	Class-IV	14-08-2010
168	Sri Rashik Lal Murmu	Class-IV	16-08-2010
169	Sri Shyam Lal Pathak	Class-IV	13-08-2010
170	Md. Mansur Ansari	Class-IV	16-08-2010
171	Sri Brij Nandan Singh	Class-IV	16-08-1988
172	Sri Nand Dev Das	Class-IV	16-08-2010
173	Sri Jageshwar Mahali	Class-IV	16-08-2010
174	Sri Paika Murmu	Class-IV	16-08-2010
175	Sri Sadhu Charan Mahato	Class-IV	16-08-2010
176	Sri Bihari Ravidash	Class-IV	16-08-2010
177	Sri Reshan Marandi	Class-IV	16-08-2010
178	Sri Vijay Shanker Singh	Class-IV	16-08-2010
179	Sri Vijay Devdas	Class-IV	14-08-2010
180	Smt. Gayatri Devi	Class-IV	26-07-1994



181	Smt. Kumari Kalpna	Class-IV	
182	Smt. Mangoli Manjhiyan	Class-IV	05-09-1994
183	Sri Rajesh Kumar Nishad	Class-IV	06-09-1997
184	Sri Kali Charan Mahto	Class-IV	16-08-2010
185	Md. Nausad Ali Ansari	Class-IV	16-08-2010
186	Smt. Photomuni Murmu	Class-IV	14-08-2010
187	Md. Samim Akhater Ansari	Class-IV	14-08-2010
188	Sri Krishna Ram	Class-IV	21-05-1990
189	Sri Vanshidhar Mahto	Class-IV	16-08-2010
190	Sri Haradhan Tiwari	Class-IV	01-10-2007
191	Sri Sanker Deyal Mahto	Class-IV	06-04-1989
192	Sri Gopal Das	Class-IV	14-08-2010
193	Sri Sitendra Prasad	Class-IV	01-10-2007
194	Sri Bharat Mishra	Class-IV	01-10-2007
195	Sri Ajit Singh	Class-IV	18-05-1990
196	Sri Ramesh Thakur	Class-IV	06-09-1988
197	Sri Jainath Mahto	Class-IV	13-08-2010
198	Sri Vikal Chandra Das	Class-IV	14-08-2010
199	Sri Kalipad Tudu	Class-IV	14-08-2010
200	Md. Jainul Abeddin Ansari	Class-IV	16-08-2010
201	Sri Santosh Kumar	Class-IV	16-08-2010
202	Sri Gunanad Pandey	Class-IV	16-08-2010
203	Sri Lakhi Ram Kumbhkar	Class-IV	16-08-2010
204	Sri Suresh Prasad Gupta	Class-IV	14-08-2010
205	Sri Subhas Chandra Das	Class-IV	16-08-2010
206	Sri Anant Lal Kumar	Class-IV	16-08-2010
207	Smt. Lalita Rai	Class-IV	13-08-2010
208	Sri Umakant Sinha	Class-IV	16-08-2010
209	Sri Arjun Bahadur	Class-IV	16-08-2010
210	Sri Babu Lal Das	Class-IV	14-08-2010
211	Sri Rewat Lal Singh	Class-IV	16-08-2010
212	Sri Vijay Kumar Ram	Class-IV	11-02-1985
213	Sri Badrinath Sais	Class-IV	20-08-1985
214	Sri Arjun Ram No.-1	Class-IV	15-06-1983
215	Sri Subhas Chandra	Class-IV	17-03-1993
216	Sri Babu Ram	Class-IV	20-11-1991
217	Sri Ashok Kumar	Class-IV	21-01-1986
218	Smt. Phulwa Devi	Class-IV	06-11-1987
219	Smt. Kiran Devi No.1	Class-IV	23-06-1986
220	Smt. Chameli Devi	Class-IV	17-03-1993
221	Smt. Kiran Devi No.2	Class-IV	19-11-1990
223	Smt. Mina Devi	Class-IV	29-10-1989
224	Sri Ram Chandra Ram	Class-IV	13-03-1989
225	Sri Baban Ram	Class-IV	17-03-1994
226	Sri Manoj Ram	Class-IV	29-04-2009
227	Sri Sudhir Singh Choudhury	Class-IV	
228	Sri Ram Avtar Prasad	Class-IV	
229	Sri Arjun Ram No 2	Class-IV	
230	Sri Upendra Kisku	Class-IV	
231	Md. Fajdur Rahaman	Class-IV	
232	Sri Bhagwan Ram	Class-IV	



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	253	56	44	6	31	4	59	10	145	28	18	2
2	2 nd Year	309	62	51	9	34	5	63	11	142	49	10	0
3	3 rd Year	327	54	53	6	38	5	72	9	149	54	12	2
4	4 th Year	298	62	53	4	39	4	69	7	139	34	10	1
5	1 st Year M. Tech.	56	1	15	1	15	0	8	1	11	2	-	-
6	2 nd Year M. Tech.	72	5	11	1	10	0	11	1	9	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.	105	4	128	1	126	1	114	1	50	0	59	0
2	Electrical Engg.	84	17	90	34	93	29	93	22	19	1	21	4
3	Production Engg.	39	11	57	8	62	6	45	12	0	0	0	0
4	Metallurgical Engg.	49	8	53	9	58	6	53	5	1	0	0	0
5	Chemical Engg.	68	27	59	24	58	35	63	26	3	0	2	2
6	Civil Engg.	93	10	108	13	115	9	114	5	32	4	31	3
7	ECE	38	15	37	24	44	20	47	17	-	-	-	-
8	Mining	51	0	56	0	66	0	58	0	-	-	-	-
9	CSE	24	16	33	13	36	11	31	13	-	-	-	-
10	IT	35	6	34	16	31	19	28	16	-	-	-	-

Total number of Engineering Students:

Item	2018-19
Total no. of boys	2640
Total no. of girls	483
Total SC/ST Students	1186
Total no. of students	3123



Academic Calendar



B.I.T. SINDRI

(Department of Higher, Technical Education & Skill Development Govt. of Jharkhand, Ranchi)
P.O.: SINDRI INSTITUTE, DIST:- DHANBAD - 828123

2018

JANUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

MARCH

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

MAY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JUNE

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

AUGUST

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SEPTEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

OCTOBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

वर्ष 2018 में अवकाश भोगी शिक्षकों एवं कर्मचारियों हेतु घोषित अवकाश सूची / शैक्षणिक कैलेंडर

JANUARY

- 12 सोहरास
- 22 बरसा पंचमी
- 26 गणराज्य दिवस
- 31 संत रविदास जयन्ती

FEB. & MARCH

- 14 महाशिवरात्रि
- 26 फरवरी से 3 मार्च होलिवाक वान, डोंगी
- 20 लक्ष्मण
- 29 महाशिव जयन्ती
- 30 गुड फ्राइडे

APRIL

- 2 ईद
- 14 अक्टूबर जयन्ती
- 30 बुद्ध पूर्णिमा

MAY

- 01 महाशिव दिवस

JUNE & JULY

- 1 जून से 21 जुलाई शैक्षणिकका, रजतान का अंतिम सुकावर, ईद-उल-फितर, हुन दिवस, रघुपंचमी

AUGUST

- 15 स्वातंत्र्य दिवस
- 22 ईद-उल-जुहा (कब्रि)

SEPTEMBER

- 3 जन्माष्टमी
- 13 गणेश चतुर्थी
- 17 विस्फोटक गुडा
- 20 कर्मा पूजा
- 21 नूरुब

OCT. & NOV.

- 2 गाँधी जयन्ती
- 8 अक्टूबर से 15 नवम्बर पुराणकास गुदा गुडा, शैक्षणिक, फर, विरटा गुडा जयन्ती/राज्य स्वातंत्र्य दिवस
- 21 मिलादुल-नबी-फाज्बर मोहम्मद का जन्म दिवस
- 23 मूलनभक जयन्ती

DECEMBER

- 24 से 31 क्रिसमस

ACADEMIC CALENDAR 2018

B. Tech. & M. Tech. Even Semester 2018

A. Curricular Activities

Teaching	: 23.01.18 to 28.04.18 (14 Week)
Class Test I (for all semesters)	: 19.02.18 to 21.02.18
Mid Semester Exam	: 09.03.18 to 15.03.18
Class Test II (for all semesters)	: 02.04.18 to 04.04.18
Class Test III (for 2nd semester only)	: 19.04.18 to 21.04.18

B. Co-Curricular Activities

Annual Sports	: 26.01.18 to 28.01.18
Cultural Fest	: 18.03.18 to 20.03.18
Technical Fest	: 13.04.18 to 15.04.18
C. Make up classes	: 02.05.18 to 05.05.18
D. Form-filling	: 23.04.18 to 05.05.18
E. Viva-Voce Exam	: 02.05.18 to 12.05.18
F. End Semester Examinations	: 14.05.18 to 31.05.18

B. Tech. & M. Tech. Odd Semester 2018

A. Curricular Activities

Teaching	: 25.07.18 to 22.11.18 (14 Week)
Class Test I (for all semesters)	: 23.08.18 to 25.08.18
Mid Semester Exam	: 04.09.18 to 10.09.18
Class Test II (for all semesters)	: 18.09.18 to 22.09.18
Class Test III (for 3rd semester only)	: 01.11.18 to 03.11.18

B. Make up classes

C. Form-filling and Viva-Voce Exam	: 24.11.18 to 30.11.18
D. End Semester Examinations	: 06.12.18 to 22.12.18

E. The Institute will Re-open on 02.01.19 for 2019 Calendar Year.

M. Tech. 1st Semester & B. Tech. 1st Semester Academic Calendar will be released after completing the admission process.



List of UG Programs:

Sr. No.	Program Name	Year of Start	Intake	Present intake	Year of increase	AICTE Approval	Accreditation Status*
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	do
9.	CSE	1987	10	38	2003	Yes	No
10.	IT	2001	40	40	NA	Yes	No

List of PG Programs

Sr. No.	Program Name	Year of Start	Intake	AICTE Approval
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



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.*

Capacity of batch and intake of students:

		Capacity	Intake	Boys	Girls
B. Tech	2018-19	105	109	105	04
M. Tech	2018-19	50	50	50	0



List of faculty members undergoing/completed Ph.D

1. *Dr. S.C.Roy*
2. *Manoj Kumar Singh*
3. *Dheeraj Jha*
4. *Sunil Kumar Choudhary*
5. *Dr. Sanjay Kumar Singh*
6. *Dr. Rajan Kumar*
7. *Dr. Manoj Kumar*
8. *Dr. Jitendra Nath Mahto*
9. *Dr. Rajen Kumar Nayak*
10. *Dr Pankaj Kumar*
11. *Naresh Prasad Choudhary*
12. *Dr. Sunil Kumar*
13. *Ravi Shankar Prasad*
14. *Dr. Ujjawal Kumar Nayak*
15. *Mahendra Kumar Bhagat*
16. *Dr . Vijay Pandey*
17. *Dr P.K.Singh*
18. *Anish Kumar*
19. *Dr. Som Nath Saha*

List of all faculty members with their designation

S. No	Name	Designation
1.	Prof. (Dr.) S.C. Roy	Hod & Professor
2.	Prof. (Dr.) Sanjay Kumar Singh	Professor
3.	Prof. (Dr.) Manoj Kumar	Professor
4.	Prof. (Dr.) Vijay Pandey	Professor
5.	Prof. Mithilesh Kumar	Associate Professor
6.	Prof. Manoj Kumar Singh	Associate Professor
7.	Prof. Dhiraj Jha	Assistant Professor
8.	Dr. Jitendra Nath Mahto	Assistant Professor
9.	Prof. Mahendra Kumar Bhagat	Assistant Professor
10	Prof. Narendra Pratap	Assistant Professor
11	Prof. Naresh Prasad Choudhry	Assistant Professor
12	Prof. Pankaj Kumar	Assistant Professor
13	Dr. Rajan Kumar	Assistant Professor
14	Dr. Rajan Kumar Nayak	Assistant Professor
15	Prof. Ravi Shankar Prasad	Assistant Professor
16	Prof. Sunil Kumar	Assistant Professor
17	Prof. Sunil Kumar Chaudhry	Assistant Professor
18	Dr. Ujjwal Kumar Nayak	Assistant Professor
19	Prof. Animesh Kujur	Assistant Professor
20	Dr. Purushottam Kumar Singh	Assistant Professor



21	Prof. Prabhakar	Assistant Professor
22	Dr. Som Nath Saha	Assistant Professor
23	Prof. Amit Kumar Mishra	Assistant Professor
24	Anish Kumar	Assistant Professor
25	U.C. Gaur	Assistant Professor

Publications in International Journal

Sl. No.	Title	Name of Authors	Name of Seminar / Journal	ISBN/ISSN and Page No.	Year
1.	Performance Analysis of Double Flow Double Exposure Solar Air Heater	Som Nath Saha and S. P. Sharma	Journal of Mechanical Science and Technology	ISSN 1738-494X (Print) / 1976-3824 (Online) DOI 10.1007/s12206-018-0244-3 Vol. 32 (3): 1407 – 1414	2018
2.	Un-conventional Methods for Synthesis of Metal and Non-Metal Nano-particles: A Review	Singh P.K., DasAK	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences		2018
3.	Sound radiation from flexural vibration of thin plate of variable thickness with distributed patches for two boundary conditions.	Mohammad Sikandar Azam, Vinayak Ranjan, Bipin Kumar	International journal of applied mechanics & Engineering	Accepted	2018
4.	S. K. Chaudhary , K. K. Singh, R. Venugopal [2018], “Experimental and numerical analysis of flexural test of unfilled glass fiber reinforced polymer composite laminate” Materials today: Proceedings Elsevier 5 (2018) 184-192. (Scopus)				
5.	S K Chaudhary , K. K. Singh and R. Venugopal [2018] “Study about characterization of CNTs through electron microscopy and Raman spectroscopy”, IOP Conf. Ser.: Mater Sci Eng. 377(2018) 012122. (Scopus)				
6.	S. K. Chaudhary , K. K. Singh & R. Venugopal., Effectiveness of using carbon nanotubes on ILSS of glass fiber reinforced polymer laminates, Transaction of Indian Institute of metals, 71 (2018) 3029-3036. DOI: 10.1007/s12666-018-1404-y, SCIE, I.F- 0.91				



7.	K. K. Singh, S. K. Chaudhary & R. Venugopal, “Enhancement of flexural strength of glass fiber reinforced polymer (GFRP) laminates using multiwall carbon nanotubes (MWCNTs)” Polymer engineering & Science, DOI: 10.1002/pen.24929, Vol 59 issue S1(2018) I.F- 1.551, SCI
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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>	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

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 and learning process	16 March-30 March	12	0
2.	Digital transformation in teaching and learning process	6 April-22 April	10	0

Departmental Laboratory Details

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

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**

Number and names of students who qualified GATE for the current academic year:

ROLL NO	NAME	GATE REG. NO.	GATE SCORE
1500003	Aditya Kumar	ME19S24024109	42.42
1500005	Akash Srivastava	ME19S14024141	75.03
1500007	Amit Kumar	ME19S14024547	65.87
1500011	Anish Kumar Toppo	ME19S24024200	35.96
1500013	Ankit Kumar	ME19S14024008	
1500014	Anubhav Jha	ME19S14025131	72.74
1500017	Anup Kumar	ME19S14024301	54.75
1500018	Anup Purty	ME19S26028398	
1500019	Arjun Kumar	ME19S26030188	54.75
1500020	Ashish Kujur	ME19S14024397	



1500021	Avinash Kumar	ME19S24024085	51.25
1500025	Bijay Hembrom	ME19S24024392	12.86
1500033	Debashish Hembrom	ME19S14024469	21.39
1500038	Himanshu	ME19S24025039	57.71
1500043	Md Taufique Ansari	ME19S24024161	52.61
1500049	Naveen Kumar	ME19S14024555	41.02
1500051	Nilesh Suman	ME19S14024659	49.52
1500055	Pawan Kumar Yadav	ME19S14024601	66.52
1500057	Prakash Kr Das	ME19S24024204	57.71
1500058	Prakash Ranjan Kumar Singh	ME19S14024331	44.29
1500059	Pramod Kumar Modi	ME19S14024159	62.6
1500060	Pranshu Kumar	ME19S14024321	51.48
1500061	Prashant Kumar	ME19S24024515	46.5
1500063	Radheshyam Vishwakarma	ME19S24024332	41.4
1500064	Rahul Kumar	ME19S24024553	65.53
1500065	Rahul Kumar	ME19S24024180	48.2
1500068	Ram Prasad Rajak	ME19S24024420	62.13
1500071	Ritesh Kumar	ME19S24024232	66.88
1500077	Sachin Kumar	ME19S24024308	53.29
1500079	Sanjay Kumar	ME19S14024209	42
1500081	Santosh Kumar	ME19S14024169	61.62
1500082	Satyajeet Kumar	ME19S24024347	32.9
1500083	Satyam Kumar Thakur	ME19S14024664	40.04
1500086	Saurav Kumar	ME19S14024219	45.92
1500087	Shaifu Alam	ME19S24024305	34.26
1500088	Shakil Ahmad	ME19S24024365	38.68
1500089	Shashank Deep	ME19S24024194	59.75
1500091	Shiv Kumar Yadav	ME19S14024183	66.85
1500092	Shivnath Hansda	ME19S24024270	35.28
1500094	Shubham Keshri	ME19S14024421	67.18
1500095	Shubham Kumar	ME19S24024462	49.89
1500097	Shubham Pandit	ME19S14024467	44.61
1500099	Subham Kumar	ME19S24025028	72.66
1500101	Sumit Kumar Das	ME19S14024399	41.34
1500105	Tuplal Kumar Verma	ME19S14024251	66.2
1500106	Vikash Kumar	ME19S24024154	54.65
1500107	Vishal Kumar	ME19S14024233	36.11
160009D	Kanhaiya Kumar Das	ME19S24024271	30.87
160015D	Ravi Kumar Srivastava	ME19S26029339	48.2
160017D	Roshan Kumar	ME19S24024249	36.3
160018D	Sunil Kumar Murmu	ME19S24024143	26.45



Electrical Engineering



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:

1. 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.
2. 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.

Capacity of batch and intake of students (First Year):

	Capacity	Intake	Boys	Girls
B. Tech	2018-19	101	69	29
	2017-18	124	90	34
	2016-17	122	85	18
	2015-16	115	85	20
M. Tech	2018-19	18	17	01
	2017-18	26	23	03

Industrial Visits undertaken by the department

S.No.	Industry visited	Date of visit	Number of students present	Visit Professor In-charge
1	DVC, Panchet Hydel Power Station	20-april-19	58(44 boys +14 girls)	Prof. Avinash Mishra & Prof. Amit kumar
2	SAIL Bokaro	12-aug-18	All first year	Prof. Avinash Mishra & Prof. Amit kumar

List of faculty members undergoing/completed Ph.D

SN.	Name	Designation	PhD Status
1	Dr. D.K.Tanti	Professor , HoD	PhD
2	Dr. Upendra Prasad	Professor	PhD
3	Dr. Pankaj Rai	Professor	PhD



4	Ms. Rekha Jha	Associate Professor	Pursuing PhD
5	Rajendra Murmu	Assistant Professor	Pursuing PhD
6	Dr. Ramjee Prasad Gupta	Assistant Professor	PhD
7	Shashi Minz	Assistant Professor	Pursuing PhD
8	Anuj Kr. Pandey	Assistant Professor	-
9	Avinash Mishra	Assistant Professor	Pursuing PhD
10	Biswaranjan Mishra	Assistant Professor	Pursuing PhD
11	Dil Kumar T. R.	Assistant Professor	-
12	Gunturu Vijay Kumar	Assistant Professor	Pursuing PhD
13	Kaushik Paul	Assistant Professor	Pursuing PhD
14	Kumari Sarwagya	Assistant Professor	Pursuing PhD
15	Matta Mani Sankar	Assistant Professor	Pursuing PhD
16	Mukhlesur Rahman	Assistant Professor	Pursuing PhD
17	Niharika	Assistant Professor	Pursuing PhD
18	Ramesh Devarapalli	Assistant Professor	Pursuing PhD
19	Suman Ranjan	Assistant Professor	Pursuing PhD
20	Rakesh Rohan	Assistant Professor	Pursuing PhD
21	Amit Kumar	Assistant Professor	-
22	Nishant Kumar	Assistant Professor	Pursuing PhD
23	Praveen Kumar	Assistant Professor	Pursuing PhD
24	Dr. Amit Kumar Choudhary	Assistant Professor	PhD
25	V.K Aluri	Assistant Professor	-

List of all faculty members with their designation

S.No	Name	Designation
1.	Prof Deoraj K Tanti	Professor , HOD
2.	Prof Upendra Prasad	Professor
3.	Prof Pankaj Rai	Professor
4.	Ms Rekha Jha	Associate Professor
5.	Dr. Abul Kalam	Associate Professor
6.	Dr. Ramjee Prasad Gupta	Assistant Professor
7.	Mr. Rajendra Murmu	Assistant Professor
8.	Mr. Shashi Minz	Assistant Professor
9.	Dr. Amit Kumar Choudhury	Assistant Professor
10.	Mr. Praveen Kumar	Assistant Professor
11.	Mr. Nishant Kumar	Assistant Professor
12.	Mr. Amit Kumar	Assistant Professor
13.	Mr. Anuj Kumar Pandey	Assistant Professor
14.	Mr. Avinash Mishra	Assistant Professor
15.	Mr. Biswaranjan Mishra	Assistant Professor
16.	Mr. Dil Kumar T R	Assistant Professor
17.	Mr. G Vijaya Kumar	Assistant Professor
18.	Mr. Kaushik Paul	Assistant Professor



19.	Ms. Kumari Sarwagya	Assistant Professor
20.	Mr. Matta Mani Shankar	Assistant Professor
21.	Mr. Mukhlesur Rahman	Assistant Professor
22.	Ms. Niharika	Assistant Professor
23.	Mr. Rakesh Rohan	Assistant Professor
24.	Mr. Ramesh Devarapalli	Assistant Professor
25.	Mr. Suman Ranjan	Assistant Professor
26.	Mr. Vandan Raj Kamal	Assistant Professor

5. List of all non-teaching staff with their designation

S.No	Name	Designation
1.	Shri Punyadev Ram	Clerk
2.	Shri Ajit Singh	Mazdoor
3.	Shri Sunil Kumar Mishra	Lab Instructor
4.	Shri Jainul Ansari	Mazdoor
5.	Shri Dilip Kumar Rawani	Mazdoor
6.	Shri Nanak Chand	Mazdoor

A) *Publication by faculty members and students*

Faculty Name	Title	International Journal and Conferences	ISSN/DOI
Prof. Pankaj Rai	Islanding Detection for the Power System Connected With Distributed Generators.	Control & Automation in Electrical Engineering	
Mr. Biswaranjan Mishra	A New Concept for Monitoring Of Power Line Outages through Double Observability Of Buses	Journal of Advance Research in Dynamical and Control Systems. special issue,no.6,pp 1051-1064,2018	ISSN:1943-023X
	<u>A New Approach of Multiple Line Outage Identification Using Phasor Measurement Unit (PMU) with Bad Data</u>	IEEE International conference on <u>Current Trends towards Converging Technologies, Coimbatore (ICCTCT)</u> 1-3, March, 2018	Electronic ISBN:978-1-5386-3702-9 DOI: 10.1109/ICCTCT.2018.8551021
	<u>Assessment of the Impact of Line Outage in Modern Power System</u>	IEEE International conference on <u>Current Trends towards Converging Technologies, Coimbatore (ICCTCT)</u> 1-3, March, 2018.	Electronic ISBN:978-1-5386-3702-9 DOI: 10.1109/ICCTCT.2018.8550925



Mr. Suman Ranjan	Performance analysis of triple asymmetrical optical micro ring resonator with 1x3 input-output waveguide for application as optical filter	Applied optics, vol. 57, no. 9, pp. 2040-2049, 2018	DOI: DOI:10.1364/AO.57.002040
	Performance analysis of quadruple asymmetrical optical micro ring resonator as optical filter	Optik, vol. 171, pp. 821-832, July 2018.	ISSN 0030-4026, DOI: 10.1016/j.ijleo.2018.06.138.
	Mathematical modelling of extrinsic Fabry-Perot Interferometer cavity	IEEE sponsored ICMAP-2018, IIT (ISM) Dhanbad	
	Performance analysis of quadruple asymmetrical optical microring resonator	IEEE sponsored RAIT-2018, IIT (ISM) Dhanbad	
	Z-domain modelling of a quadruple asymmetrical micro optical ring resonator and its performance as optical filter	SPIE,FRANKFURT, Germany, April 2018	
Mrs. Kumari Sarwagya	High Impedance Fault Detection in Electrical Power Distribution System Using Moving Sum Approach	IET Science, Measurement and Technology, vol. 12, no-1, pp.1-8, Jan.2018.	DOI.- 10.1049/iet-smt.2017.0231
Ramesh Devarapalli	Islanding Detection for the Power System Connected With Distributed Generators.	Control & Automation in Electrical Engineering	
Miss Niharika	Day-ahead demand side management using symbiotic organisms search algorithm	IET, Generation, Transmission & Distribution, vol.12, no.14, pp.3487-3494. Aug.2018	DOI: 10.1049/iet-gtd.2018.0106
Dr. Kaushik Paul	Cuckoo Search Algorithm for Congestion Alleviation with Incorporation of Wind Farm	International Journal of Electrical and Computer Engineering Vol.8, No.6 pp. 4871-4879. 2018.	DOI:10.11591/ijece.v8i6.pp4871-4879
Mr. Matta Mani Sankar	A fuzzified Pareto multiobjective cuckoo search algorithm for power losses minimization incorporating SVC	Soft Computing, Vol. 23, pp.10811-10820, 2019.	<u>DOI:10.1007/s00500-018-3634-7</u>



Dr. Amit Kumar Choudhary	Order Reduction of z-domain Interval System using an Arithmetic Operator	Circuits, Systems, and Signal Processing, Springer,	DOI: 10.1007/s00034-018-0912-7
	Model Order Reduction of Discrete-time Interval Systems by Differential Calculus	Automatic Control and Computer Sciences, Springer, Vol. 52, No. 5, pp. 402–411, 2018	DOI: 10.3103/S0146411618050073
	Model order reduction of discrete-time interval system based on Mikhailov stability criterion	Journal of Dynamics and Control	DOI: 10.1007/s40435-018-0404-4, 2018.
	Order Reduction Techniques via Routh Approximation, A Critical Survey	IETE Journal of Research	DOI: 10.1080/03772063.2017.1419836 , 2018
	A Novel Technique for Order Reduction of Discrete-Time Interval System	4 th SICE International Symposium on Control Systems (ISCS), at Setagaya Campus, Tokyo City University, Tokyo, Japan, March 9-11, 2018	

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

Sl. No.	Name of event	Date	Name of delegates	No. of participants	Name of Key organizers
1.	Advancement and Application of Soft Computing in Electrical System	13-17 July,2018	1. <i>Dr. Biplab Bhattacharya (Associate Professor IIT (ISM) Dhanbad)</i> 2. <i>Dr. Somnath Pan</i> 3. <i>Dr. Kalyan Chatterjee</i> 4. <i>Prof. P. Rai</i> 5. <i>Dr. RP. Gupta</i>	56	Coordinator (NIT Patna) 1. Dr. Ravi Shankar Coordinator (BIT Sindri) 2. <i>Dr. R. P. Gupta</i>
2.	Invited guest lecture	3/10/2018	Dr. S.N Verma (Professor. NIT Patna) Dr. Ravi Shankar (Assistant Prof. NIT Patna)	--	Head EE dept. BIT Sindri
3.	Faculty Development Program on Advanced Industrial Automation	1-5 November, 2018	1. <i>Mr. Nilesh Sinha</i> DGM, Process Control & Automation. 2. <i>Mr. Ramesh Geeru</i> Design Tech. Andhra		Department of ECE&EE in collaboration with SIEMENS



	using PLC & SCADA		3. <i>Mr. Ajit Kumar Patro, SIEMENS COE BIT Sindri</i> 4. <i>Dr. Amar P. Sinha, Dept. of ECE BIT Sindri</i> 5. <i>Mr. Manath Kumar Ghosh, SIEMENS COE BIT Sindri</i> 6. <i>Prof. M.G. Tiyari, Dept. of ECE BIT Sindri</i> 7. <i>Mr. Prasant Singh, SIEMENS COE BIT Sindri</i> 8. <i>Dr. Imtiyaz Ahmad, Dept. of ECE BIT Sindri</i>		COE, BIT Sindri
4	An Overview of Indian power sectors and Challenges in funding power projects.	5/12/2018	Mr. P.K Sinha (GM. PFC)	--	Director BIT Sindri HOD EE Dept. BIT Sindri
5	Renewable Power Source- Solar Power projects	5/12/2018	Mr. C Ravi Kumar (AGM, PFC)	----	Director BIT Sindri HOD EE Dept. BIT Sindri

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

S. No.	Name of course	Date	No. of faculty member participated	No. students participated
1	NPTEL: Introduction to Smart Grid	Aug-Sep 2018	1	-
2	NPTEL: Data Base Management System	Aug-Sept 2018	-	1

Industrial Visits (if any) elaborating the date of visit, location and number of students (with Photos)

S. No.	Name of Industry	Date of Visit	Number of students	Name of Professor In Charge Visited
1	DVC Panchet Dam	20 April 2019	52	Avinash Mishra
2	DVC Panchet Dam	27 April 2019	51	Avinash Mishra



Departmental Laboratory Details

S.No	Name of Laboratories
1	Electrical Technology Lab/BEE Lab
2	Network Lab
3	Electrical Machines Lab
4	Measurements & Instrumentation Lab
5	Computational Lab
6	Micro Processor & Microcontroller Lab
7	Control Systems Lab



8	Power Electronics Lab
9	PPAS Lab
10	Electrical Workshop
11	Power System Lab
12	Project Lab

Name of new laboratory developed with details.

- i) **Power System Laboratory:** This Laboratory has been set up recently and provides an environment to the students to study and to perform various experiments on the topics such as power system transmission line performance, protection of power systems, reactive power control etc. The lab enables the faculty and students to use technologically advanced equipment for their research work
- ii) **Project laboratory:** This Laboratory has also been set up to help students to complete their minor and major projects during final year. It has all the basic equipment needed for completion of the hardware projects done by the students.

S.No.	Name of new Laboratory	Details of Items
1	Power System Lab	a) Characteristics of IDMT Over-Current relay (Electromagnetic type) b) 3 Phase Power Transmission Line Trainer Model c) 3 phase Fault Analyzer (using Alternator set up) & Power Angle measurements d) Transformer Protection Simulation experimental kit
2	Project Lab	a).DSO: 60MHz b). DSO: 30MHz c). Digital Multi Meter d). Arduino Micro-Controller (Arduino)

Extra Points

A) GATE ranks:

1. *Abhishek Kumar (Roll No. 1501007) secured an exemplary All India Rank of 64 in GATE-2019, EE paper.*
2. *Aditya Raj Barnwal (Roll No. 1501001) secured an All Indian Rank of 963, in GATE-2019, CS paper*

Number and names of students who qualified GATE for the current academic year

Sl. No	Roll No	Name	Gate Score
1	1501002	Abantika Sengupta	630
2	1501003	Abhinav Raj	319
3	1501007	Abhishek Kumar	
4	1501010	Aditya Prakash	421
5	1501104	Akash Kumar	330
6	1501015	Amit Kumar Singh	644



7	1501019	Ankit Kumar	400
8	1501021	Ankita Chatterjee	668
9	1501022	Anuj Kumar	481
10	1501024	Asha Kumari	594
11	1501033	Chandan Kumar Vishwakarma	485
12	1501034	Diksha Gupta	700
13	1501045	Kunal Kumar	608
14	1501051	Mukesh Kumar Mahato	619
15	1501068	Rahul Kumar Singh	418
16	1501069	Raj Kishore Laguri	447
17	1501071	Rajeev Ranjan Raj	386
18	1501072	Rakesh Dubey	560
19	1501077	Sahablal Bind	315
20	1601014D	Sandip Kumar	213
21	1501078	Sanjay Kumar	372
22	1601016D	Satish Kumar	397
23	1501080	Satyam Kumar Ravi	312
24	1501083	Shahroz Inzamam	601
25	1501085	Sheetal Kumar	442
26	1501086	Shubham	531
27	1501088	Shubham Kumar	450
28	1501018D	Sweta Kumari	368
29	1501100	Vidyanand Yadav	354
30	1601019D	Vivek Kumar	333

Sports and Games:

Name	Event & Venue	Award
Suchree	Volleyball Women, Vajra 2019, BIT Mesra, Ranchi.	2 nd Position
Scolostica	Volleyball Women, Vajra 2019, BIT Mesra, Ranchi.	2 nd Position
Rita	Volleyball Women, Vajra 2019, BIT Mesra, Ranchi.	2 nd Position
Bablu Besra	Football, Vajra 2019, BIT Mesra, Ranchi.	2 nd Position

External Events:

1. Payel Gorai (Roll No. 1701059) an UG student of the department was selected amongst the top 50 female sophomore students from the country who qualified the first round of Women of Mettle, a country-wide competition organised by TATA STEEL. Payel presented her project analysis on the topic, 'Study for arresting chronic problems of TSU tripping on no sink fault during NTM jog operation' in the final round of the competition and bagged a pre- placement

internship at the reputed firm bringing laurels to the department and the institute as a whole.

- Jaya Sinha (Roll No. 1601039) an UG student of our department participated in the annual innovation challenge, 'Mind Over Matter' organised by TATA STEEL. Jaya proved her mettle in the national competition and was awarded the second prize in the final round of Mind Over Matter.*



Innovative projects:

ADORA- the AI Robot:

Abhineet Mishra (Roll No.:1701044) an undergraduate of the Department has been working on his independent project based on Artificial Intelligence, one he calls, 'ADORA'.

This is currently a biped robot which is being trained using 'Reinforcement Learning'. According to Abhineet, the main objective behind this endeavour is to have real world sensation about Artificial Intelligence. The robot is being trained in the OpenAI simulating environment using Pybullet Physics Engine. The entire department is proud of his work, and extends every support that he might need to continue his work in the robot.





Production Engineering



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.	<i>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</i>	<i>Trans Indian Inst Met</i>	71: 1975	April, 2018	
2.	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
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.	<i>Optimization of TIG Welding parameters for improvement of strength and hardness</i>	<i>International Journal for research in engineering application and management (IJREAM)</i>	<i>Volume 04, Issue 08</i>	Nov 2018	381-387
7.	<i>A multi objective optimum design approach for rolling element bearing</i>	<i>International Journal of Interactive Design and Manufacturing</i>	12	2018	1095–1108
8.	<i>A Comparative Study on Mechanicaland</i>	<i>International Journal for Research in engineering</i>	<i>Vol-04 Issue-08</i>	2018	



	<i>Physical Characteristics of Al-SiC and Al-SiC-Egg Composites fabricated by Stir Casting Process</i>	<i>application and management</i>			
9.	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
10.	<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>
11.	<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>
12.	<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>

Conferences

Sl.	Title of the paper	Name of the Conference in which publication has been made	Vol./No.	Publication Year
1	<i>New Generation Robot- Animal Robot to Humanoid</i>	Workshop on“Manufacturing Automation, Robotics and Factory of Future” (MARFF 2018) under TEQIP-III at B.I.T. Sindri, Dhanbad.		3rd - 7th October 2018
2	<i>Geodesic approach for trajectory planning of mobile robot manipulators</i>	<i>International conference on recent innovation and development in mechanical engineering, NIT Meghalaya,</i>	<i>IOP journal</i>	8th- 10th NOV 2018
3	<i>A Multi-objective Approach to Study the Effects Of Ball Race Conformity on Optimum Design of Rolling Element Bearing Using Metaheuristics</i>	International conference on advanced computing & intelligent Engineering	<i>Published by Springer</i>	22 nd - 24 th dec 2018

Students Publications

Journals

Sl.	Title of the paper	Name of the journal in which publication has been made	Vol./No.	Publication Year	Pages
1	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



2	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
3	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
4	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	

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	Workshop on “Manufacturing automation robotics and factory of future”.	3rd-7th Oct 2018	MARFF-2018	60	Dr.Prakash kumar, Mr. Kashif Hasan Kazmi
02	Special Lecture on “Advanced Composite Materials”	19 th September 2017	Dr. K.K. Singh from IIT (ISM)	100	Dr.Prakash kumar
03	Expert Lecture on “Advanced Manufacturing”	23 rd February 2019	Dr. Somnath Chattopadhyaya	70	Dr.Prakash kumar
04	Expert Lecture on “Analytical and Finite Element Modeling of Laser Metal Processing”	26 th March 2019	Dr. Shitanshu Sekhar Chakraborty, Scientist, CMERI, Durgapur	50	Dr.Prakash kumar & Dr. Sumanta Mukherjee

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 Convener, Institution’s Innovation Council (IIC) from August 2018*
3. *Dr. Surya Narayan Panda has been invited as keynote speaker in “Advances in Mechanical Engineering” on 25th-26th Feb 2019 at GCE, Keonjhar, Odisha.*

4. *Dr.Surya Narayan Panda has been reviewer for journal “Mechanism and Machine Theory-Elsevier”.*



Capacity of B. Tech and intake of students (In First Year):

		<u>Capacity</u>	<u>Intake</u>	<u>Boys</u>	<u>Girls</u>
B. Tech	2018-19		50	40	10
	2017-18		65	56	06
	2016-17		68	62	07
	2015-16		56	45	08
M. Tech	2018-19		15	15	0
	2017-18		16	16	0

List of faculty members undergoing/completed PhD

S. No	Name	PhD status
1.	Dr. Prakash Kumar	Completed
2.	Dr. Rakesh	Completed
4.	Mr. Anand Kumar	On going
5.	Mr. Kashif Hasan Kazmi	On going
7.	Dr. Surya Narayan panda	Completed
8.	Dr. Sumanta Mukherjee	Completed
10.	Dr. Satish Kumar	Completed

List of all faculty members with their designation

S. No	Name	Designation
1.	Dr. Prakash kumar	Head & Associate Professor
2.	Dr. Rakesh	Associate Professor
3.	Mr. A. R. Ansari	Assistant Professor
4.	Mr. Anand kumar	Assistant Professor



5.	Mr. Kashif hasan kazmi	Assistant Professor
6.	Mr. Sourav acharya	Assistant Professor
7.	Dr. Surya narayan panda	Assistant Professor
8.	Dr. Sumanta mukherjee	Assistant Professor
9.	Mr. Mukesh chandra	Assistant Professor
10.	Dr. Satish kumar	Assistant Professor

List of all non-teaching staff with their designation

S.No	Name	Designation
1.	Smt. Usha Jha	Clerk
2.	Sh. Mithilesh Kumar Singh	Peon
3.	Sh. Suresh Kumar Srivastav	Peon
4.	Sh. Lalit Kumar Pandey	Laboratory attendant
5.	Sh. Suresh Chandra	Sweeper

Number and names of students who qualified GATE for the current academic year:

- *Subham Kumar Gupta (PI19S44024493)*
- *Purushottam Kumar (PI19S44024174)*
- *Shubham Kumar Singh (ME19S14024553)*
- *Laxmi Kumari (ME19S24023119)*





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:

- 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.*
- For augmenting the research facility and become a leading innovation Centre contributing significantly towards development of need based technologies.*
- Enhancing the relationship between academia and industries for addressing the need of the mankind.*

Publication by faculty members and students:

- 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.
- 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. **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.
4. **Tvarit A. Patel***, Chetan C. Singh* and Emila Panda, “Microstructure influenced variation in the local surface electrical heterogeneity in thickening Al-doped ZnO films: evidence using both scanning tunnelling spectroscopy and conductive atomic force microscope”, **Materials Science in Semiconductor Processing**, 2018, **75**, 65 (*equally contributed author).
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, Wear Behavior of Electron Beam Surface Melted Inconel 718. *Procedia Manufacturing* 35 (2019) 866-873.
7. 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.
8. 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
9. 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
10. **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
11. **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



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*

Capacity of batch and intake of students:

		<u>Capacity</u>	<u>Intake</u>	<u>Boys</u>	<u>Girls</u>
B. Tech	<u>2018-19</u>	58	56	48	08
	<u>2017-18</u>	58	50	41	09
	<u>2016-17</u>	58	56	48	08
	<u>2015-16</u>	58	58	52	06
M. Tech	<u>2018-19</u>	40	01	01	
	<u>2017-18</u>	40	01	01	

List of faculty members undergoing/completed Ph.D

Name of faculty	PhD status
Dr. B.N.Roy	completed
Dr. Sagaram Hembrom	completed
Mr. A.k. Rajak	undergoing
Mr. S.N. Prasad	undergoing
Mr. Sumit Sharma	undergoing



Mr. Tvarit A. Patel	undergoing
Mr. Babul Das	undergoing
Mr. Abhinav Dixit	undergoing

List of all faculty members with their designation

S.No	Name	Designation
1	Dr. B.N.Roy	Professor
2	Dr. Sagaram Hembrom	Assistant Professor
3	Mr. A.K. Rajak	Associate Professor
4	Mr. S.N. Prasad	Associate Professor
5	Mr. Sumit Sharma	Assistant Professor
6	Mr. Tvarit A. Patel	Assistant Professor
7	Mr. Babul Das	Assistant Professor
8	Mr. Abhinav Dixit	Assistant Professor

List of all non-teaching staff with their designation

S. No.	Name	Designation
1.	Mr. K.A.N Singh	Lab Assistant
2	Mr. V.K.Singh	Lab Assistant
3	Mr. Birendra Kumar	Clerk
4	Mr. Shankar Dayal Mahato	Lab Majdoor
5	Mr. Saroj Kumar	Lab Attendant
6	Shanti Ram Hansda	Lab Attendant

Number and names of students who qualified GATE for the current academic year:

➤ Sudhanshu Ojha



Civil Engineering



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. V. Pandey “Stability of Soil Using Crumb Rubber”
International Journal of Research & Analytic Reviews. IJRAR. June – 2019
Volume – 6 Issue –

Prof. R.V. Singh

1. *Stability of clay soil using ground granulated blast furnace slag : Vol 6 * June 2019*
2. *Solid Waste Management in India : existing status and future challenges January 13 & 14 – 2018 P.G. department of law, Patna University, Patna .*

Prof. Sheo Kumar

1. *An experimental study of soil stabilization using Ferrochrome Slag published in IJRAR_ volume 5 issue 4 October 2018*

Prof. Jitu Kujur

1. Nishant Malay, Manish Kumar, **Jitu Kujur**, “Study of natural carbonation of concrete incorporating marble dust’ Proceedings of the Institution of Civil Engineers - Construction Materials, Volume 171, Issue 2 (April 2018) pp. 85-92, <https://doi.org/10.1680/jcoma.17.00001>.
2. Shwetambara Verma, Arun Kumar and **Jitu Kujur** , “water permeability and carbonation modelling of different variants of concrete using ANN”. **Malaysian Construction Research Journal**, Vol. 26(3), 2018.
3. Suman Kumar. Arun Kumar and **Jitu Kujur**, “Influence of nanosilica on mechanical and durability properties of concrete” Proceedings of the Institution of Civil Engineers - Structures and Buildings, **Published Online: November 26, 2018**, <https://doi.org/10.1680/jstbu.18.00080>.

Prof. N.Kisku

1. M.K.Mahendra ,K.Sachin, **Kisku.N(2019)** Experimental study of water cooled ferrochrome slag as fine aggregate, **IJRARE-ISSN 2348-1269, P- ISSN 2349-51386** (2) 5138.
2. *Rajhans, P., Chand, G., Kisku, N., Panda, S. K., &Nayak, S. (2019). Proposed mix design method for producing sustainable self compacting heat cured recycled aggregate concrete and its microstructural investigation. Construction and Building Materials,218, 568-581.*



Prof. Rabindra Kumar

1. Kumar R., Nayak S. and Khan S.D. (2018) “Improving In-Plane and Out-of-Plane Behaviour of Unreinforced Masonry Structure”, *International Journal of Advances in Mechanical and Civil Engineering*, Volume-5, Issue-4, p:69-71.

2. Khan S.D., Kumar R., Patel N., and Patel S. (2018) “BAMBOO AS ECO-FRIENDLY AND ECONOMIC REINFORCEMENT FOR LOW COST RURAL HOUSING” *International Journal of Advances in Mechanical and Civil Engineering*, Volume-5, Issue-4, p:72-76.

Prof. S.D.Khan

1. Khan S.D., Kumar R., Patel N., and Patel S. (2018) “BAMBOO AS ECO-FRIENDLY AND ECONOMIC REINFORCEMENT FOR LOW COST RURAL HOUSING” *International Journal of Advances in Mechanical and Civil Engineering*, Volume-5, Issue-4, p:72-76.

2. Kumar R., Nayak S. and Khan S.D. (2018) “Improving In-Plane and Out-of-Plane Behaviour of Unreinforced Masonry Structure”, *International Journal of Advances in Mechanical and Civil Engineering*, Volume-5, Issue-4, p:69-71.

a. Capacity of batch and intake of students(In First Year):

		Capacity	Intake	Boys	Girls
B. Tech	2018-19	104	98	90	8
	2017-18	104	103	90	13
	2016-17	104	102	95	07
	2015-16	104	104	99	05
M. Tech	2018-19	50	34		
	2017-18	50	32		

b. Workshop and seminar conducted under the department

S.No.	Name and Objective	Venue	Duration	Names of delegates along with their designation	No. of participants	Name of Key organizers with role
1	Recent Advances in Civil Engineering (RACE – 2018)	Department of Civil Engineering	07-12-18 to 11-12-2018	Prof. G. Pathak, VC, JUT Dr. Satadru Das Adhikari Asst. Prof. IIT(ISM) Dhanbad Prof. A. Banik, Professor, NIT Durgapur	40	Prof. V. Pandey, Convenor Prof. J.P. Singh. Coordinator Prof. N. Kisku Co-cordinator Prof. C.R. Sharma. Organizing Secretary



			<p>Prof. Nirmal Kumar, Ex Principal. BCE Bhagalpur</p> <p>Mr. Manish Bharti CEO, Cortex Engineering Solution</p> <p>Dr. S. Srivastava, BASF</p>		<p>Prof. R. Kumar, Prof. A. Anand, Prof. S.D. Khan, Prof. I. Sheikh and Prof. S. Meena, Organizing committee members</p>
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Details of Training programmes held for teachers and staff

- *A Software Training Program was held with the help of Spokentutorial.org and with the help of IIT Bombay. The training was provided in courses such as QCAD, Python and Library office. An online test was also carried out and all the successful candidates were given Certificates. Participation certificate was also given to the students who could not perform well in the test.*

Research activities ,(if any) taken up by any student or faculty of the department along with the topic of research

S.No	Name of researcher	Topic of research
1.	Mr. Rabindra Kumar	Performance investigation of nano coated steel rebar in reinforced concrete
2.	Mr. Sudha Das Khan	Bridge health monitoring



3.	Ms. Surbhi Shivendra and Mr. Abhijit Anand	A Numerical Investigation on Stability and Bearing Capacity Behavior of Soil Embankment
4.	Alok Suman, Bishwajit Mahto, Lokesh Kumar, Praveen Tudu, Roshan Das, Sudhanshu Anand, Bhola Ram Mahato and Mr. Abhijit Anand	Effect of Aluminium Strip Inclusion on the Geotechnical Properties of Soft Clay.

List of all faculty members with their designation

Sl. No.	Name	Designation
1	Prof. (Dr.) V. Pandey	Professor
2	Prof. A. K. Singh	Associate Professor
3	Prof. (Dr.) R. V. Singh	Professor
4	Prof. (Dr.) U. K. Singh	Professor
5	Prof. Sheo Kumar	Associate Prof.
6	Prof. S. K. Kumar	Associate Prof.
7	Prof. (Dr.) K. Murari	Associate Prof.
8	Prof. C. R. Sharma	Associate Prof.
9	Prof. J. P. Singh	Professor
10	Prof. P. K. Sharma	Professor
11	Prof. (Dr.) Jitu Kujur	Associate Prof.
12	Prof. N. Kisku	Asst. Prof.
13	Prof. Rabindra Kumar	Asst. Prof.
14	Prof. Abhijit Anand	Asst. Prof.
15	Prof. Sudha Das Khan	Asst. Prof.
16	Prof. Iqbal Sheikh	Asst. Prof.
17	Prof. Saroj Meena	Asst. Prof.

c. List of all non-teaching staff with their designation

S.No	Name	Designation
1	Sri Vasant Kumar Singh	Lab Assistant
2	Sri Prabhat Kumar Singh	Lab Assistant
3	Sri Dharendra Kumar	Draftsman
4	Sri Dinesh Kumar Das	Lab Attendant
5	Sri Deo Narayan Soren	Lab Attendant
6	Sri Jainuddin Mansoori	Lab Attendant
7	Sri Anand Kumar	Lab Attendant
8	Sri Lalita Rai	Lab Attendant
9	Sri Binod Ram	Lab Attendant

Details of Testing works:

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

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

Capacity of batch and intake of students:

	Capacity	Intake	Boys	Girls
B-Tech	2018-19	95	69	26
	2017-18	83	53	25
	2016-17	93	69	24
	2015-16	89	62	27
M-Tech	2018-19	25	3	0
	2017-18	25	2	2

e. Workshop and seminar conducted under the department

Sl.	Name and Objective	Venue	Duration	Names of delegates along with their designation	No. of participants	Name of key organizers with role
1.	Name: Flow and process simulation in process industries (FAPSIPI-2018)	Department of Chemical Engineering	29 th October to 2 nd November 2018	Dr. Soubhik Kumar Bhaumik Assistant Professor & Prof. Vineet Kumar from IIT (ISM) Dhanbad Dr. V Ram Sagar Assistant Professor, Dr. PV Suresh Associate Professor from NIT Warngal, Prof. Abantii	87	Coordinator : Dr. Sanjay Kumar Dr. B. Sujan Kumar Dr. Subhajit Patra Organizing Secreteries: Dr. Rupak Kisore Dr. Arvind Singhs



				<i>Sahoo from NIT Rourkela</i>		
2.	<i>Role of Chemical engineer in Environmental Protection, RCEEP-2018</i>	<i>Department of Chemical Engineering</i>	<i>5th to 6th October</i>	<i>Prof. IM Mishra Head & Professor, Prof Vineet Kumar Professor from IIT (ISM) Dhanbad, Prof. MK Mondal Professor from IIT (BHU) Varanasi, Dr. A.K. Singh GM PDIL & Dr. TNP Singh, CEO Aditi R&D Lab</i>	47	<i>Coordinator : Dr. Amit Kr. Gupta & Dr. Ch. V. Raghunath</i>



a. Industrial Visits undertaken by the department

- Patherdih Coal Washery 28 February & 4 March 2019

- *SAIL Bokaro: 30 March & 2 April 2019*



b. List of faculty members undergoing/completed Ph.D

<i>Sl. No.</i>	<i>Faculty Member</i>	<i>Institute</i>
<i>1</i>	<i>Mr. Ajay Oraon</i>	<i>IIT (ISM) Dhanbad</i>
<i>2</i>	<i>Ms. Devina Ratnam</i>	<i>IIT (ISM) Dhanbad</i>
<i>4</i>	<i>Mr. Mahendra Ram</i>	<i>IIT (BHU) Varanasi</i>

c. List of all faculty members with their designation

<i>Sl. No.</i>	<i>Name</i>	<i>Designation</i>
<i>1.</i>	<i>Prof. (Dr.) S.P. Singh</i>	<i>Professor, HoD</i>
<i>2.</i>	<i>Dr. Amit Kumar Gupta</i>	<i>Assistant Professor</i>
<i>3.</i>	<i>Mr. Ajay Oraon</i>	<i>Assistant Professor</i>
<i>4.</i>	<i>Dr. Amar Kumar</i>	<i>Assistant Professor</i>



5.	Dr. B. Sujan Kumar	<i>Assistant Professor</i>
6.	Dr. Ch. V. Raghunath	<i>Assistant Professor</i>
7.	Dr. Sanjay Kumar	<i>Assistant Professor</i>
8.	Dr. Rupak Kishor	<i>Assistant Professor</i>
9.	Ms. Devina Ratnam	<i>Assistant Professor</i>
10.	Dr. Arvind Singh	<i>Assistant Professor</i>
11.	Mr. Bheemisetty Kartheek	<i>Assistant Professor</i>
12.	Ms. Swapnil Singh	<i>Assistant Professor</i>
13.	Mr. Mahendra ram	<i>Assistant Professor</i>
14.	Dr. Suneeta Kumari	<i>Assistant Professor</i>
15.	Mr. Saiprasad Pati	<i>Assistant Professor</i>
16.	Ms. A. Sameera	<i>Assistant Professor</i>

d. **List of all non-teaching staff with their designation**

<u>Sr. No.</u>	<u>Name</u>	<u>Designation</u>
<u>1.</u>	Mr. Rajesh	Class III
<u>2.</u>	Mr. Dudheshwar Gupta	Class IV
<u>3.</u>	Mr. Krishan Ram	Class IV
<u>4.</u>	Mr. Brijnandan Singh	Class IV
<u>5.</u>	Mrs. Gayatri Devi	Class IV
<u>6.</u>	Mrs. Mangla Hembram Hansda	Class IV
<u>7.</u>	Mr. Bishnu Pad Chandra	Class IV
<u>8.</u>	Mr. Bikal Chandra Das	Class IV

e. **Departmental Laboratory Details**

Sl. No.	Name of Lab	Description
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1.	<i>Unit Operation, Mass Transfer, Heat Transfer, Mech Operation</i>	<i>This Laboratory allows students to gain hands-on experience while studying both the fundamental principles and practical applications of chemical engineering. The laboratory includes 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</i>



		<i>(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>

Number and names of students who qualified GATE for the current academic year:

<i>Sl. No.</i>	<i>Name of Student</i>	<i>Gate Registration Number</i>
<i>1</i>	<i>Aashish Chandra</i>	<i>CH19S34024161</i>
<i>2</i>	<i>Ashwini Kumar Mandal</i>	<i>CH19S34024075</i>
<i>3</i>	<i>Avinash Kumar</i>	<i>CH19S34024195</i>
<i>4</i>	<i>Bipul Kumar Paul</i>	<i>CH19S34025026</i>
<i>5</i>	<i>Deepak Kumar</i>	<i>CH19S34024269</i>
<i>6</i>	<i>Hemant Kumar</i>	<i>CH19S34024050</i>
<i>7</i>	<i>Lalan Mahto</i>	<i>CH19S36030043</i>
<i>8</i>	<i>Manish Kumar</i>	<i>CH19S34024305</i>
<i>9</i>	<i>Monika Sharan</i>	<i>CH19S34024283</i>
<i>10</i>	<i>Rahul Kumar Singh</i>	<i>CH19S34024225</i>
<i>11</i>	<i>Ramnath Kumar</i>	<i>CH19S34024109</i>
<i>12</i>	<i>Raushan Kumar</i>	<i>CH19S34024145</i>
<i>13</i>	<i>Ravi Oraon</i>	<i>CH19S36029071</i>
<i>14</i>	<i>Rishabh Sinha</i>	<i>CH19S34024201</i>
<i>15</i>	<i>Rupam Das</i>	<i>CH19S34024227</i>
<i>16</i>	<i>Shubham Kumar</i>	<i>CH19S34024163</i>



Publication by faculty members and students

1. Mahendra Ram, M.K Mondal, Comparative study of native and impregnated coconut husk with pulpcand 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.



Mining Engineering



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.

Publication by faculty member and students

Investigation of wireless tracking performance in the tunnel-like environment with particle filter; A Halder, D Chakravarty, MMEP, IIETA Canada 5 (2), 93-101, 2018

Wireless relay placement optimization in underground room and pillar mines; A Halder, D Chakravarty; MMEP, IIETA Canada, 5 (2), 93-101, 2018

Compaction-Based Analytical Stress Model for 3D Inclined Backfilled Stopes; Deb D, Jain S. International Journal of Geomechanics, ASCE (Vol- 18, Issue 4); DOI- 10.1061/(ASCE)GM.1943-5622.0001112; Submitted on January 11, 2017; approved on October 17, 2017; published online on January 18, 2018.

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	RAMT	22-12-2018 to 23-12-2018	Dr. Jai Krishna Pandey, chief scientist and Head of Mine fire, Ventilation and Miners safety research group in ACSIR-CIMFR, Dhanbad. Dr. Dheeraj Kumar, Professor in the Department of Mining Engineering, and appointed as the Dean (International Relation and Alumni Affairs) of IIT (ISM), Dhanbad. Prof. Dr .Udhayabhanu, Dean (Academics) of IIT(ISM) - Dhanbad. Dr. M. D. Yadav Retired GM SAIL.	10 participants and 50 B. Tech higher semester students.	Prof. Tanmay Dasgupta, Prof. Rizwan Hasim, Prof. Manas Kumar Mallick, Prof. Neeraj Yadav Prof. Saurabh Jain, Prof. Arpan Halder, Prof. Kapil Kumar

Details of Testing work

S. No.	Details of Testing	Name of Organization	Amount
1	Material testing	CCL, BCCL, etc.	Approximate 1 crore.



Industrial Visits (if any) elaborating the date of visit, location and number of students (with photos)

S. No.	Name of the Industry visited	Date of visit	Number of students present	Name of Professor In-charge visited
1	SAIL	12.08.2018	50	Prof. Kapil Kumar, Prof. S. Jain, Prof. Suman Hessa

Departmental Laboratory Details

S. No.	Name of Laboratories
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.

Name of the new laboratory developed with details

Extra points (such as Special achievements by Department, Faculty Members or Students or Departmental Festivals Details with photos and short description)

- NBA accreditation Department.
- Saddam Hussain and Suraj Kumar Mahto have received SME scholarships for the Spring 2019 semester with the recommendation from Prof. Rizwan Hasim and Prof. Saurabh Jain.
- Rahul Ranjan, 1708030 has completed the course on “Introduction to Business Analytics: Communicating with Data” under ‘Coursera’ and Introduction to machine learning on NPTEL.



On Thu, Mar 28, 2019 at 1:21 AM Larry Hull <hullatious@aol.com> wrote:

Professor Jain,

Thank you for your prompt response. While I await final instructions from our Executive Committee, I can obtain the information we will need.

I will need the following information:

- Full name of account holder
- Bank address
- Account number or International Bank account number (IBAN)
- The SWIFT Bank Identifier Code SWIFTBIC

The students receiving the awards are:

- Suraj Kumar Mahto
- Sad dam Hussein
- Snesh Modi
- Biplab Ghosh
- Sanchit Kumar
- Ranjeev Kumar Bharti
- Satyam Kumar
- Anshul Agarwal
- Nagam Ramsai
- Rajat Lathi
- Vikas Yadav
- Navendu Kumar

Again, thank you for your help. If you could also verify these students, I would appreciate that very much.

Sincerely,

Lydia Hull
WAAIME Scholarship Chair

Capacity of batch and intake of students:

	Capacity	Intake	Boys	Girls
B. Tech	2018-19	54	54	NIL
	2017-18	61	61	NIL
	2016-17	66	66	NIL
	2015-16	58	58	NIL



**List of all faculty members with their designation**

S. No.	Name of the faculty member	Designation
1	Prof. (Dr.) U. K. Dey	Professor
2	Dr. Jai Krishna Pandey	Professor
3	Mr. Suman Hessa	Assistant Professor
4	Mr. Rizwan Hasim	Assistant Professor
5	Mr. Manas Kumar Mallick	Assistant Professor
6	Mr. Neeraj Yadaw	Assistant Professor
7	Mr. Saurabh Jain	Assistant Professor
8	Mr. Chinamay Mandal	Assistant Professor
9	Mr. Tanmay Das Gupta	Assistant Professor
10	Mr. Kapil Kumar	Assistant Professor

List of all non-teaching staff with their designation

S. No	Name	Designation
1	Mr. Kaushal Kishore	Assistant
2	Mr. Tanmoy Ghosh	Class-IV (Survey Attendant)
3	Mr. Aveda Nanda Dutta	Class-IV (Lab Attendant)
4	Mr. Hiralal Rabidas	Class-IV (Lab Attendant)
5	Mrs. Chintadevi	Peon

**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

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. M. G. Tiary	APS URSI International Conference	A CPW Fed Trapezoidal Fractal Patch Antenna for UWB Application		PP. 749-750	2018
2.	Dr.S. K. Verma	SICE-2018, Tokyo, Japan	Optimized Fractional order controller for a Fractional Order Spherical Tank System using Grey Wolf Optimizer			2018



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.	5G-Communication	11 th -15 th June, 2018	Dr. Arvind Kumar, Assistant professor Mr. Jagveer Singh Verma, Assistant professor	14	Electronics and ICT Academics at NIT Patna
2.	Wireless and Mobile Communication	3 rd - 7 th Dec., 2018	Dr. Arvind Kumar, Assistant professor Dr. S. K. Verma, Assistant professor	20	Electronics and ICT Academics at NIT Patna
3.	DSP and Sensors	10 th - 14 th Dec., 2018	Dr. Imteyaz Ahmad, Associate professor Mr. Hanif Ali, Assistant professor	23	Electronics and ICT Academics at NIT Patna

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.




Capacity of batch and intake of students:

	<u>Capacity</u>	<u>Intake</u>	<u>Boys</u>	<u>Girls</u>
B. Tech <u>2018-19</u>	56	54	40	14
<u>2017-18</u>	56	49	34	18
<u>2016-17</u>	56	64	41	13
<u>2015-16</u>	56	65	42	14

a. *Research activities undertaken by Faculty members*

S.No	Name of researcher	Topic of research
1	Amar Prakash Sinha	Quantum Computation
2	Santosh Kumar Verma	Design and optimization of fraction order PID Controllers

b. List of faculty members undergoing/completed Ph.D

- *During the assessment year 2016 to 2018 Ph.D. awarded to*
 - i. *Dr. Arvind Kumar*
 - ii. *Dr. Imtiyaz Ahmad*
 - iii. *Dr. Amar Prakash Sinha*
 - iv. *Dr. Risha Mal*
 - v. *Dr. Santosh Kumar Verma*

c. *List of all faculty members with their designation*

S.No	Name	Designation
1	<u>Dr. M. G. Tiary</u>	Professor & HOD
2	<u>Dr. Amar Prakash Sinha</u>	Associate Professor
3	<u>Dr. Imteyaz Ahmad</u>	Associate Professor
4	<u>Dr. Arvind Kumar</u>	Assistant Professor
5	<u>Prof. Sabita Nayak</u>	Assistant Professor
6	<u>Mrs. Sangeeta Kumari</u>	Assistant Professor
7	<u>Ms. Kritika Awasthi</u>	Assistant Professor
8	<u>Ms. Pritika Singh</u>	Assistant Professor



9	<u>Dr. Risha Mal</u>	Assistant Professor
10	<u>Md. Hanif Ali</u>	Assistant Professor
11	<u>Mr. Santosh Kumar Verma</u>	Assistant Professor
12	Mr. Jagveer Singh Verma	Assistant Professor

d. List of all non-teaching staff with their designation

S.No	Name	Designation
1	Md. Mofiz Ahmad	Laboratory Assistant
2	Naresh Prasad	Laboratory Assistant
3	Vivek Dehri	Instructor

e. Departmental Laboratory Details

S.No	Name of Lab	Description
1	Analog Communication	<ol style="list-style-type: none"> 1. TDM PAM Modulation/ Demodulation Kit (DCL 002) 2. Amplitude Mod/ DMOD Trainer (ST2207) 3. FM trainer kit (VPL infotech) 4. Frequency division multiplexer /Demultiplexer kit. 5. PWM trainer kit(DCL 008)
2	Digital Communication	<ol style="list-style-type: none"> 1. Analog sampling and Reconstruction Kit (DCL- 001) 2. Data conditioning and carrier modulation transmitter and data reconditioning and carrier DEMOD receiver kit (DCL- 005/ DCL- 006) 3. Pulse Code MOD/ DEMOD transmitter kit (DCL-003/ DCL-004) 4. Delta/Adaptive delta MOD/ DEMOD kit (DCL-007)
3	Digital electronics	<ol style="list-style-type: none"> 1. Bread board (AND, OR, NOT, NAND, NOR, EXOR) 2. Digital Trainer kit 3. CRO 4. DLADET – Digital trainer- IC trainer. 5. Multiplexer 8:1 (SD- 301) 6. Demultiplexer 1:8 (SD-304)
4	DSP	Computer(MAT LAB)
5	COA	Computer
6	Basic electronics	<ol style="list-style-type: none"> 1. CRO (Scientech 801) 2. Dual DC power supply (Scientific PSD 3303) 3. Function generator (Testronix72) 4. Rectifier kit (Future tech slno-0306174)
7	Analog electronics lab	<ol style="list-style-type: none"> 1. Oscillator kit (Future Tech- FT1905, Future tech- FT1903, FT- 1283) 2. CRO



		3. OPAMP Kit, Inverting/ Noninverting (Sciotech AB 42) 4. Power supply (Sciotech AD01)
8	Microwave Lab	Microwave test benches with Klystron power supply(NV102) and Gunn power supply(NV101) by NVIS
9	Tele communication system switching Lab	1. TCSS Trainer Kit (EPABX DEMONSTRATOR T859) 2. Digital CRO(Caddo 9060)
10	SCD lab	Multisim software
11	VLSI	Xilinx software

- f. *Number and names of students who qualified GATE for the current academic year:*
g. *Awards/prizes won by the students, faculty:*

Sl. No.	NAME OF STUDENT	ROLL NO.	EVENT
1	Shivani gupta	1606049	PARTICIPATION- PANTHEON, BIT MESHRA
2	Kumar Shivam	1606026	PARTICIPATION- PANTHEON, BIT MESHRA
3	Bhuwan Mahato	1606014	KASHIPATRA, ONLINE COMPETITION
4	Atul Xess	1506012	RUSH-DUET DANCE-2ND
5	Vandana Kumari	1506056	SKILL REX -CERTIFICATE OF EXCELLENCE,
6	Sourav Kumar	1506041	PALASH-GREEN MARATHON-16TH POSITION

**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.*



Capacity of batch and intake of students:

CSE

		Capacity	Intake	Boys	Girls
<i>B.Tech</i>	<i>2018-19</i>	38	39	24	15
	<i>2017-18</i>	38	37	29	08
	<i>2016-17</i>	38	39	30	09
	<i>2015-16</i>	38	41	29	12

○ **IT**

		Capacity	Intake	Boys	Girls
<i>B.Tech</i>	<i>2018-19</i>	40	42	35	07
	<i>2017-18</i>	40	42	31	11
	<i>2016-17</i>	40	42	26	16
	<i>2015-16</i>	40	42	32	10

Workshop and seminar conducted under the department

<i>Sl.No</i>	<i>Name and objectives</i>	<i>Venue</i>	<i>Duration</i>	<i>Names of resource along with their designation</i>	<i>No. of Participant</i>	<i>Name of key organizers with role</i>
1.	<i>RADCOPAS</i>	<i>BIT Sindri</i>	<i>24th to 28th Sep 2018</i>	<i>Dr. S Sahana, Dr. A Dutta, Dr. P.K. Jana, Dr. S. Tripathi</i>	49	<i>Dr. Paulomi Dalapati, Mr. Tapan Kumar Nayak, & Mr. A Pathak</i>
2.	<i>AI AND MACHINE LEARNING</i>	<i>BIT SINDRI WITH NIT PATNA & Others through NKN</i>	<i>17th Dec to 21th Dec 2018</i>		24	<i>Dr. SC Dutta & Mr. P. Anantharaj</i>
3	<i>IoT</i>	<i>-Do-</i>	<i>18th to 22nd June 2018</i>		23	<i>Mr. Rajiv Ranjan & Mr. Raghunandan</i>
4.	<i>ANN AND DEEP LEARNING</i>	<i>-Do-</i>	<i>11th June to 15th June 18</i>		30	<i>Dr. SC Dutta Ms. Rupali Kumari</i>



5.	Robotics & AI	-Do-	24th to 28th June 2019	Dr. S.K. Saha, IIT Delhi, Dr. K kUrien, IIST, Dr. Arish Dutta, IIK, Dr. A. Ojha,, Dr. Prabin Kumar, Dr. V.K. Gupta from IITDM Jabalpur, Dr. RBV Subra NITW	49	Dr. Ramji Prasad Gupta & Dr. Pooja Sharma
6.	The era of digital transformation	BIT Sindri	8th to 12th July 2019	Mr. S. Shrivastava, Mr. M.K. Lal, Mr. N Sinha	40	Dr. Pooja Sharma & Dr. Paulomi Dalapati



vi. Industrial Visits undertaken by the department

- Industry visited: BOKARO steel plant
- Date of visit: 12-08-18

vii. Details of Training programmes held for teachers and staff

- “Outcome Based Education and Accreditation”
- “NPIU Faculty Induction program at IIT Kharagpur and IIT Madras



- “Faculty Training program at IIT Gandhi Nagar”

List of faculty members undergoing/completed PhD

Sl no.	Name	Status of Ph.D
1.	Dr. Subhash Chandra Dutta	Completed
2.	Dr. Pooja Sharma	Completed
3.	Dr. Poulami Dalapati	Completed
4.	Mrs. Parvati Mahanto	On-going
5.	Mr. Raghu Nandan Kumar	On-going
6.	Mr. Dinesh kumar Prabhakar	On-going
7.	Mr. Tapan Kumar Nayak	On-going
8.	Mr. Shesh Narayan Sahu	On-going
9.	Mr. Panjeet Kumar lenka	On-going
10.	Mr. Deepak Kumar	On-going

List of all faculty members with their designation

S. No.	Name	Designation
1.	Dr. Subhash Chandra Dutta	Head & Assistant Prof
2.	Mr. Abhaya Gyan P Kujur	Assistant Prof
3.	Mr. Rajeev Ranjan	Assistant Prof
4.	Mr. Raghunandan Kumar	Assistant Prof
5.	Mrs. Parvati Mahanto	Assistant Prof
6.	Dr. Pooja Sharma	Assistant Prof
7.	Dr. Poulami Dalapati	Assistant Prof
8.	Mr. Dinesh kumar Prabhakar	Assistant Prof
9.	Mr. Tapan Kumar Nayak	Assistant Prof
10.	Mr. Shesh Narayan Sahu	Assistant Prof
11.	Mr. A Ranjith	Assistant Prof
12.	Mr. Vikash Kumar Singh	Assistant Prof
13.	Mr. Deepak Kumar	Assistant Prof
14.	Mr. Sachin Kumar Agrawal	Assistant Prof
15.	Mr. Anantha Raj P	Assistant Prof
16.	Mr. Bhawesh Kumar	Assistant Prof
17.	Mr. Panjeet Kumar lenka	Assistant Prof
18.	Mrs. Rupali Kumari	Assistant Prof

List of all non-teaching staff with their designation

S. No.	Name	Designation
1.	Mrs. Salomina Thithio	Lab Assistant



2.	Mrs. Neelam Kumari	Lab Attendant
3.	Mrs. Selina Kumari	Lab Assistant

Departmental Laboratory Details

S. No.	Name of Lab	Description
1.	AI LAB	At a time a batch of 45 can do the lab (F-10)
2.	Network LAB	At a time a batch of 45 can do the lab (F-11)
3.	Database & Information System LAB	At a time a batch of 45 can do the lab (F-30)
4.	Algorithm Analysis LAB	At a time a batch of 45 can do the lab (F-31)
5.	Data Centre LAB	At a time a batch of 100 can do the lab (G-23)
6.	Server Room	3 no.of servers are working currently - Windows Server (3TB) - Windows Server (3TB) - Linux Server (3TB)

3. A) *Publication by faculty members and students*

- i. Bhaskar Mondal, Tarni Mandal, Danish Ali Khan, Tanupriya Choudhury “A Secure Biometric Image Encryption Scheme using Chaos and Wavelet Transformations”, Recent Patents on Engineering. Publisher: Bentham Science, DOI: 10.2174/1872212111666 170223165916, vol. 12, no. 1, pp. 5-14, 2018. SCOPUS Indexed
- ii. Dharmendra Prasad Mahato, Ravi Shankar Singh: Maximizing availability for task scheduling in on-demand computing-based transaction processing system using ant colony optimization. Concurr. Comput. Pract. Exp. 30(11) (2018)
- iii. Dharmendra Prasad Mahato, Ravi Shankar Singh: On maximizing reliability of grid transaction processing system considering balanced task allocation using social spider optimization. Swarm Evol. Comput. 38: 202-217 (2018)
- iv. *Dharmendra Prasad Mahato, Ravi Shankar Singh Reliability Modeling and Analysis for Deadline-Constrained Grid Service. AINA Workshops 2018: 75-81*
- v. *Dharmendra Prasad Mahato, Jasminder Kaur Sandhu: Modeling of Load Balanced Scheduling and Reliability Evaluation for On-demand Computing Based Transaction Processing System. eScience 2018: 390-39*
- vi. *Dharmendra Prasad Mahato, CPNs Based Reliability Modeling for On-Demand Computing Based Transaction Processing. ICPP Workshops 2018: 24:1-24:4*
- vii. *Dharmendra Prasad Mahato: Cuckoo Search-Ant Colony Optimization Based Scheduling in Grid Computing. ICPP Workshops 2018: 39:1-39:10*



- viii. Dharmendra Prasad Mahato, Jasminder Kaur Sandhu, Nagendra Pratap Singh, Kamlesh Dutta: Dependability Analysis for On-Demand Computing Based Transaction Processing System. AINA 2019: 188-199
- ix. Dharmendra Prasad Mahato: Load balanced transaction scheduling in on-demand computing using cuckoo search-ant colony optimization. ICDCN 2019: 439-444
- x. Dynamic Process Scheduling and Resource Allocation in Distributed Environment: An Agent Based Modeling and Simulation.
- xi. Transportation Letters: the International Journal of Transportation Research, Taylor & Francis. doi: 10.1080/13873954.2018.1512504
- xii. Parbati Mahanto. 17th International Conference in Information Technology (ICIT) Achieving MC/DC using UML Communication Diagram. 20th Dec 2018 to 22nd Dec 2018.
- xiii. Swarup Roy, Pooja Sharma, Keshab Nath, Dhruva K Bhattacharyya and Jugal K Kalita, “Pre-processing- A Data Preparation Step” accepted for publication in *book entitled Reference Module in Life Sciences*, 2018.
- xiv. Pooja Sharma, D K Bhattacharyya & J K Kalita, Detecting protein complexes based on a combination of topological and biological properties in protein-protein interaction network, Journal of Genetic Engineering and Biotechnology 16 (1), 217-226.
- xv. Pooja Sharma, D K Bhattacharyya & J K Kalita, Detecting Gene Modules Using a Subspace Extraction Technique, International Conference on Intelligent Computing and Smart Communication 2019, Springer.

a. Workshop and seminar conducted under the department

Sl.No	Name and objectives	Venue	Duration	Names of resource along with their designation	No. of Participant	Name of key organizers with role
1.	RADCOPAS	BIT Sindri	24 th to 28 th Sep 2018	Dr. S Sahana, Dr. A Dutta, Dr. P.K. Jana, Dr. S. Tripathi	49	Dr. Paulomi Dalapati, Mr. Tapan Kumar Nayak, & Mr. A Pathak
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		<i>Others through NKN</i>				
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6.	<i>The era of digital transformation</i>	<i>BIT Sindri</i>	<i>8th to 12th July 2019</i>	<i>Mr. S. Shrivastava, Mr. M.K. Lal, Mr. N Sinha</i>	40	<i>Dr. Pooja Sharma & Dr. Paulomi Dalapati</i>



b. Industrial Visits undertaken by the department

- Industry visited: BOKARO steel plant
- Date of visit: 12-08-18

c. Details of Training programmes held for teachers and staff

- i. “Outcome Based Education and Accreditation”
- ii. “NPIU Faculty Induction program at IIT Kharagpur and IIT Madras
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7.	Mr. Tapan Kumar Nayak	On-going
8.	Mr. Shesh Narayan Sahu	On-going
9.	Mr. Panjeet Kumar lenka	On-going
10.	Mr. Deepak Kumar	On-going

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4.	Mr. Raghunandan Kumar	Assistant Prof
5.	Mrs. Parvati Mahanto	Assistant Prof
6.	Dr. Pooja Sharma	Assistant Prof
7.	Dr. Poulami Dalapati	Assistant Prof
8.	Mr. Dinesh kumar Prabhakar	Assistant Prof
9.	Mr. Tapan Kumar Nayak	Assistant Prof
10.	Mr. Shesh Narayan Sahu	Assistant Prof
11.	Mr. A Ranjith	Assistant Prof
12.	Mr. Vikash Kumar Singh	Assistant Prof
13.	Mr. Deepak Kumar	Assistant Prof
14.	Mr. Sachin Kumar Agrawal	Assistant Prof
15.	Mr. Anantha Raj P	Assistant Prof
16.	Mr. Bhawesh Kumar	Assistant Prof
17.	Mr. Panjeet Kumar lenka	Assistant Prof
18.	Mrs. Rupali Kumari	Assistant Prof

List of all non-teaching staff with their designation

S. No.	Name	Designation
1.	Mrs. Salomina Thithio	Lab Assistant
2.	Mrs. Neelam Kumari	Lab Attendant
3.	Mrs. Selina Kumari	Lab Assistant

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

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.

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*



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
2.	P. K. Singh, Rabindra Kumar	The International Journal of Science and Technoledge	Hydrogeochemical study of Chasnala-Tasra-Sindri area of Dhanbad, Jharkhand, India	ISSN: 2321-919X	39-50	2017/4 (12)
3.	P. K. Singh, Rabindra Kumar, Purusottom Singh	International Journal Mendel	Hydrogeochemistry of fluoride in an around Sindri area, Dhanbad, Jharkhand	ISSN: 0970-9649	31-41	2018 / 34
4.	P.K. Singh	Ane- Books Publisher	Hydro-geochemistry of Sindri, Dhanbad: A case study	ISBN: 978938671804	1-116	2018, Book Published
5.	G. Kumar	Geominetech: The Indian Mineral Industry	Prospect of Stone Industries in India – A Review		43 - 48	2017
6.	G. Kumar	Geominetech: The Indian Mineral Industry	Health Issues Related to Indian Asbestos Mining – A Review		41-47	2018/ VI (2)

II. Publication in National/International Conferences/Seminar

III.

Sl. no	Author(s)	Name of Journal/Conference	Title/Topic of the Paper	ISSN/ISBN No.	Paper no./Page no.	Year/Volume Issue
1.	P. K. Singh	Seminar on Groundwater management in developing countries	Hydro-geochemistry of fluoride and its related health problems in parts of Jharia coal field, Jharkhand		124-136	2018

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

1. Departmental Laboratory Details

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

2. 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	d1
7.	UV Spectrophotometer	1
8.	Laboratory Refrigerator	1

3. 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

Vijay K. Yadav, Ghanshyam Prasad, Mayank Srivastava, Subir Das, "Combination-Combination phase synchronization among non-identical fractional order complex chaotic systems via nonlinear control" International Journal of Dynamics and Control, Published online 10th May 2018.

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.



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.

Departmental Laboratory Details

S. No.	Name of Laboratory
1.	Physics Laboratory



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) **R.K.Singh**, 2018, "*Hypothesis in Research Methodology*" in National Workshop on "*Research Methodology of Advanced Studies in Modern Era*", organised by Dept. of Psychology, Kolhan University, Chaibasa, Jharkhand on 25-29 Sept 2018.
- 2) **R.K.Singh**, 2018, "*Research on Green Psychochemistry*" in National Workshop on "*Research Methodology of Advanced Studies in Modern Era*", organised by Dept. of Psychology, Kolhan University, Chaibasa, Jharkhand on 25-29 Sept 2018.
- 3) **R.K.Singh**, 2018, "*Mahatma Gandhi's practical Approach for the world and world peace*" in XLI Annual Conference of ISGS and Jamshedpur Women's College on 2 Nov 2018.
- 4) **R.K.Singh**, 2018, "*Some words of letter A for peace psychology*" in the International Conference on Peace Security and Mental Health in 21st century organised by Dept. of Psychology, Kolhan University, Chaibasa, Jharkhand on 11-13 March, 2018.
- 5) **R.K.Singh**, 2018, "*Peace, Security and Mental Health related to Green Chemistry*" in the International Conference on Peace Security and Mental Health in 21st century



- organised by Dept. of Psychology, Kolhan University, Chaibasa, Jharkhand on 11-13 March, 2018.
- 6) Awadhesh Kumar Prasad, Rajan Kumar, **M.K. Mishra**, 2018, FTIR spectroscopy Investigation of waste transformer oil as an alternative fuel for CI Engine, *International Journal of Advanced Scientific Research and Management (IJASRM)* ISSN: 2455-6378, 3(9), 195-198.
 - 7) **M.K. Mishra**, 2018, Spectral Characterisation, Thermal decomposition and Kinetic Study of Chromium (III) Complexes with Salicylic acid, *Rasayan Journal of Chemistry (RJC)* ISSN: 0974-1496, 11(4), 1393-1398.
 - 8) Dheeraj Kumar, A.K. Singh, **M.K. Mishra**, J.P. Singh, 2018, Effect of Sodium hydroxide treated polypropylene fiber on stabilisation of soil, *International Journal of Advanced Scientific Research and Management (IJASRM)* ISSN: 2455-6378, 3(12), 143-148.
 - 9) Awadhesh Kumar Prasad, Rajan Kumar, **M.K. Mishra**, 2018, Waste Transformer Oil As Alternative Fuel For CI Engines: A Review, *International Journal of Research in Engineering & Advanced Technology* ISSN : 2320-8791, 6(2), 138-142.
 - 10) Dheeraj Kumar, **M.K. Mishra**, A.K. Singh, J.P. Singh, 2018, Stabilisation Of Soil Using Sodium Hydroxide Treated Polypropylene Fiber, *International Journal for Research in Engineering Application & Management* ISSN: 2454-9150, 4(2), 333-337.
 - 11) Krishna Keshav, **M.K. Mishra**, J.P. Singh, 2018, Stabilisation Of Soil Using Sodium Hydroxide Additive, *International Journal for Research in Engineering Application & Management (IJREAM)* ISSN: 2454-9150, 4(2), 328-332.
 - 12) **M.K. Mishra**, 2017, Preparation of Chromium (III) Phthalate via Chromium (VI) Oxide using tertiary amyl alcohol as a solvent, *Oriental Journal of Chemistry* ISSN: 0970-020 X CODEN: OJCHEG, 33(3), 1375-1380.
 - 13) **Tomar Swati**, Gupta S.K. (2018). Effect of seeding anaerobic granular sludge towards simultaneous removal of nitrogenous and carbonaceous substrate in AHR, *Genius*, 6(2), 136-145.
 - 14) **Tomar Swati**, Gupta S.K. (2018). Strategies to accelerate startup of anammox process, International Conference on Advances in Environmental and Agricultural Biotechnology, 22-24 Feb 2018, St. Xavier's College, Ranchi.
 - 15) **Tomar Swati**, Gupta S.K. (2018). Application of Anammox Hybrid Reactor technology-a promising alternative to conventional nitrogen removal systems. National conference on Forest, Water and Climate Change, p 64, 21 March, 2018, University of Rajasthan, Jaipur.

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) *Some words of Letter 'A' for Peace Psychology*, **Dr. R.K. Singh**, International Conference on Peace, Security and Mental Health in 21st Century, SOUVENIR, ISBN No. 978-81-924-567-3-8, 11th - 13th March 2018, 9.
- 4) *Research Methodology and Ethical Principles in Recent Research*, **Dr. R.K. Singh**, National Workshop on Research Methodology of Advanced Studies in Modern Era, ISBN No. 978-81-924-567-3-9, 25th -29th Sept 2018, 12-18.
- 5) *Study of Green Exercise and Green Psycho chemistry-An Overview*, **Dr. R.K. Singh**, National Workshop on Research Methodology of Advanced Studies in Modern Era, ISBN No. 978-81-924-567-3-9, 25th -29th Sept 2018, 19-24.

Departmental Laboratory Details

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

2018-19
Sanctioned Rs.2,10,00,000
Utilized Rs.2,06,86,720





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 (2018-19)	45,62,90,200/-	39,47,95,939/-

- **Student Budget**

Financial Year	Allocation
Tuition Fee	1,49,76,481/-
Intuitional Admission	3,90,010/-
Hostel Seat Rent	40,223/-
Fine	1,10,813/-
Total	1,55,17,527/-

Engineering Projects (India) LTD.

Details of ongoing construction works at BIT Sindri

	Expenditure
CFY (18-19)	Rs. 50,08,37,190.70/-

**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
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

**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/



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.

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.	Dr. Neil Dwivedi Pundit	Tele Communication - 1961
5.	Mr. Shree Narayan Sharma	Chemical - 1963
6.	Dr. Anil Kumar Singh	Metallurgy - 1964
7.	Dr. Ramjee Prasad	Tele Communication - 1968



8.	Prof. S. S. Jamuar	Tele Communication -1967
9.	Shri Ramesh Yadava	Electrical - 1971
B. I. T. SINDRI DISTINGUISHED ALUMNI AWARD 2019		
1.	Mr. Ranjit Sinha	Chemical-1962
2.	Mr. Prabhat Sinha	Chemical-1963
3.	Mr. Braj K. Singh	Mechanical-1964
4.	Mr. R.N. Singh	Civil-1966
B. I. T. SINDRI Excellence Service Award-2018		
1.	Shri Rajendra Kumar Choudhary	Production – 1977
2.	Shri Shashank Shekhar Garuryar	ECE - 1982
3.	Smt. Sweta Kumari	ECE -1994
B. I. T. SINDRI Excellence Service Award-2019		
1.	Mr. Bal Krishna Barnwal	Mechanical-1978
2.	Mr. Kamal Nath	ECE-1984
3.	Mr. Pawan Ojha	ECE-1989

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.*





Transition Rate of B. Tech 1st Sem Student to 2nd Sem

B.I.T. Sindri
PO- Sindri Institute

Transition Rate of students from 1st year to 2nd year (without backlog) (2018-19)

Sl.No.	Branch	SC	ST	OBC	GEN	TOTAL
1.	Mechanical	11	20	29	37	97
2.	Electrical	09	22	33	33	97
3.	Production	02	02	13	14	31
4.	Metallurgy	06	11	13	23	53
5.	Chemical	08	19	29	29	85
6.	Civil	09	20	31	32	92
7.	ECE	05	11	10	20	46
8.	Mining	03	11	16	15	45
9.	CSE	04	09	16	09	38
10.	IT	04	08	07	19	38
11.	Appeared in 2 nd sem	69	162	208	240	679
12.	Passed	61	133	197	231	622
13.	Percent	88.4	82.09	94.71	96.25	91.6



Siemens Lab-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

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











Sl. 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	42	847	496	185	143	1032	639
2	Advance Manufacturing Lab	10	296	168	0	0	296	168
3	Test & Optimization Lab	2	31	25	0	0	31	25
4	Test & Optimization Work shop	0	0	0	0	0	0	0
5	Rapid Prototyping Lab	2	37	37	0	0	37	37
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	22	298	176	217	186	515	362
9	Electrical Lab	48	891	536	277	191	1168	727
10	Process Instrumentation Lab	0	0	0	0	0	0	0
11	Mechatronic Lab	0	0	0	0	0	0	0
12	Robotics Lab	0	0	0	0	0	0	0
13	Body Repair Lab	8	0	0	81	50	81	50
14	Body Paint Lab	8	0	0	77	46	77	46
15	Lift Maintenance Lab	13	0	0	121	73	121	73
	Grand Total	186	2911	1659	1134	832	4045	2491



Activity done by START UP CELL of BIT, Sindri, Dhanbad

Sl.	Name of Activity	Speaker/ Facilitator	Date	Venue	No of Participants - Details	Outcome of the activity	Expenses incurred
01	Workshop on Startup Activities and Preparation of Mini Action Plan	D. Sahu, NPIU Representative	16-17 January 2018, 09.00 AM to 06.00 PM	BIT Mesra, Ranchi	2-Dr. Prakash Kumar & Dr. R.P. Gupta (Two Faculty of BIT Sindri)	Come to know about mission of Govt. of India regarding start up policy. The Government of India decided to boost the Startup ecosystem in the country and help India become a nation of job creators rather than job seekers. The Government through this initiative aims to empower Startups to grow through innovation and design and to accelerate the Startup movement.	
02	Motivational talk on Entrepreneurship	Sri. S.N. Sharma, US based Alumnus	26th January 2018 at 4.30 PM	TPO Conference Hall, BIT Sindri	30-Students of 4th, 6th & 8 th Semester	The theme was: Startup India is an initiative of the Government of India . The campaign was first announced by Indian Prime Minister, Narendra Modi during his 15 August 2015 address from the Red Fort, in New Delhi. The action plan of this initiative also has been discussed.	
03	General Enterprising Tendency Test (GETT)	Members of Startup Cell	12/02/2018, 12.30 PM	M – 45 of Production Engineering Depart	80-Students of 4 th , 6 th & 8 th Semester	Test was conducted among students to find out the skill level of innovations, idea and	



				ment, BIT Sindri		entrepreneurship. On the basis of Outcome IDEA club, Innovation Club and Start up club has been constituted.	
04	General Enterprising Tendency Test (GETT)	Members of Startup Cell	12/02/2018, 04.00 PM	M – 45 of Production Engineering Department, BIT Sindri	45-NPIU Faculties	Test was conducted among faculty members to find out the skill level of innovations, idea and Entrepreneurship.	04
05	Opportunities and Challenges for Startup Companies in Jharkhand	Mr. Tapas Nandi (CEO) from ADON System & Solutions Pvt. Ltd.	19 th February 2018, 11.30 AM	A 27 (Discussion Hall), BIT Sindri	50-Students of B.Tech. 4 th , 6 th & 8 th Semester and M.Tech. 2 nd Semester	Case study of successful entrepreneur has been discussed to create an ecosystem.	
06	Challenges for Startup	Mr. B.S.Sahay (Founder Director, IIM Raipur)	24 th March 2018, 09.30 AM	C 51 (Rajendra Prasad Conference Hall), BIT Sindri	200-Students of B.Tech. 2 nd , 4 th , 6 th & 8 th Semester and M.Tech. 2 nd and 4 th Semester	It was an interactive sessions between the speaker and students to discuss the challenges of startup cell. Need of Investor's meet realized.	
07	Scope of Startup and Incubation Unit in Jharkhand	Mr. Gaurav Singh (Co-Founder MyPerfectice)	28 th March 2018, 04.30 PM	M – 45 of Production Engineering Department, BIT Sindri	20-Students Coordinators (Startup) of B.Tech. 6 th & 8 th Semester	The topic of discussion was "About the development of one of the startup " My Perfectice". It was established in year 2016 carried out by the Ex- students of the BIT, Sindri. Now it is a US based analytics platform which uses data & Insight to drive personalized learning among student	



08	Entrepreneur s Meet 2018	Renowned Entrepreneur s of Jharkhand, Delhi and NCR	15 th April 2018, 09.00 AM to 05.00 PM	C 51 (Rajendra Prasad Conference Hall), BIT Sindri	100 -All Faculty Members and Students of B.Tech. 2 nd , 4 th , 6 th & 8 th Semester and M.Tech. 2 nd and 4 th Semester	As per the need raised in activity of Sl. No.-6 an Entrepreneurship meet was organized and in this meet nearly 15 successful Entrepreneur of different fields participated.	64,500/-
09	Smart India Hackathon-2017	Mentoring has been done by MECON Ltd. Ranchi	Jan to July 2018	In MECON Ranchi and at BIT, Sindri	07 -Winner of 2nd Runner up Team Under Ministry of Steel At Smart India Hackathon 2017 Grand Finale Team ENIGMA	Application for monitoring deployment of manpower by contractors in STEEL Industry. A sum of Rs 3 Lacs has been funded by AICTE to complete the project. The project was successfully completed and submitted on 2 nd August 2018 to AICTE.	09
10	Startup Induction Program	Startup Coordinator, Co-coordinator and Student Coordinators of various cells of startup	9 th August 2018, 10.00 AM	DPA, BIT Sindri	300 -Students of 1 st semester	The objective of the Startup Induction Program was: To give an idea about the startup, The startup cell and its activities To identify the dreamers for startup, Scope of startup and incubation cell in and around Jharkhand.	10
11	Financial aid for Startup Companies	Mrs. Anubha Prasad (GM, Small Industries Development Bank of India Chandigarh)	9 th August 2018, 04.00 PM	A 26 (Conference Hall), BIT Sindri	60-Students of B.Tech. 3 rd , 5 th & 7 th Semester and M.Tech. 3 rd Semester	The discussion has been done about start up funding done by various financial Institutions	11
09	Smart India Hackathon-2017	Mentoring has been done by MECON Ltd. Ranchi	Jan to July 2018	In MECON Ranchi and at	07 -Winner of 2nd Runner up Team Under Ministry of Steel At Smart India	Application for monitoring deployment of manpower by contractors in STEEL Industry.	09



				BIT, Sindri	Hackathon 2017 Grand Finale Team ENIGMA	A sum of Rs 3 Lacs has been funded by AICTE to complete the project. The project was successfully completed and submitted on 2 nd August 2018 to AICTE.	
12	Startup India Jharkhand Yatra 2018	Assisted by Gov of IT representatives and members of Startup Cell, BIT Sindri (Organized by Gov of Jharkhand)	21 st August 2018, 10 AM-12 PM	Siemens Robotics lab beside Electrical Substation, BIT Sindri	200 -Students of B.Tech. 1 st ,3 rd , 5 th & 7 th Semester	Registration of students for presentation of idea in Boot Camp at IIT(ISM), Dhanbad. 3 startup ideas have been selected for next round scheduled at Ranchi (27th - 28th Aug 2018) 1. The Hello Doctor- Mr. Karan Raj Mehta, Civil Engineering, 3 rd Year 2. Odigosworld.com- Mr. Divyanshu Sinha- Mining Engineering, 3 rd year 3. Jharfarm-Abhinav Prakash, ECE, 1 st year & Nikhil Kumar, Chemical Engineering, 1 st year	12
13.	Start-up India Programme Jointly Organized by IIT (ISM) Dhanbad & BIT Sindri, Dhanbad	Prof. Sunil Jha, IIT, Delhi, Mr. R. Ranjan Mahapatro, Director KEMPPI India, Incubation Centre, IIT, Patna,	29 th -30 th September 2018, 9:30 AM to 05:00 PM	IIT (ISM) Dhanbad	100 -Three Faculty Members & Students of B.Tech. 1 st 3 rd , 5 th & 7 th Semester	In two days workshop, the discussion has been done about Facilities for Startup/ Innovation Lab, Startup Funding Institutions, IP and IPR, Patent Filing, IPR in India, IPR	3500/-



		Mr. Amit Shukla, Consultant, SIDBI Innovation Centre, IIT, Kanpur & Dr. B.K. Naik, NITIE, Mumbai				Regulation in India, IP Law, Nature and Scope of IP Law	
14.	Investment in New Emerging India Jointly Organized by Narnolia and BIT Sindri	Mr. Romit Barat, VP & Head, PMS and Alternate Funds and Mr. Alok Nandan VP & Head of Mutual Funds and Structured Products	8th October 2018	C 51 (Rajendra Prasad Conference Hall), BIT Sindri	100-Faculty Members, Media Person and People from Industries in and around Dhanbad and Bokaro	In a one day Workshop, the discussion has been focused mainly on investment pattern, fund allocation and improving financial security.	
15.	Startup Promotion Programme Organized by BITSAA and Startup Cell	Sri. S.N. Sharma, Sri. Ramesh Yadav, Dr. Neil Dwivedi Pundit, Dr. Anil Kumar Singh, Sri Prabhat Sinha (US based Alumnus)	17 th November 2018	C 51 (Rajendra Prasad Conference Hall), BIT Sindri	100-Faculty Members, Student Coordinators of Startup Cell and Media Person	Promotion Programme for Startup and Incubation Cell in BIT Sindri. Two startups were inaugurated 1. The Hello Doctor- Mr. Karan Raj Mehta, Civil Engineering, 3 rd Year 2. Odigosworld.com- Mr. Divyanshu Sinha- Mining Engineering, 3 rd year	62,450/-
16.	Startup Promotion Programme (Phase-II) with Distinguished alumni of BIT Sindri 1989-93 Batch (Silver Jubilee Batch)	Anil Kumar Ray (Sr. Specialist at Peabody, Saint Louis, USA), Binay Anand (Sr. Manager, SHELL OIL, Houston, Texas), Amrita Sinha (Head,	29 th November 2018	A 27 (Dr. Krishna Pal Singh Discussion Hall), BIT Sindri	50-Faculty Members, Student Coordinators of Startup Cell and Media Person	<input type="checkbox"/> Promotion Programme for Startup Cell in BIT Sindri. <input type="checkbox"/> Discussion on Facilities for Startup/ Innovation Lab <input type="checkbox"/> Startup Funding Institutions and various aids for startups.	66,500/-



	Organized by BITSAA and Startup Cell	Payment Solution, USA), Smita Dutta (VP, Accenture, Bangalore), Nisheeth K Sinha (Sr. DGM, NFCL, Hyderabad)					
17.	2 nd Entrepreneurial Conclave, Organized by Startup Cell, BIT Sindri (TEQIP-III)	Mr. S.N Sharma (US based Alumnus), Mr. Chandrika Prasad (Former VP-Metyro Rail), Mr. Amit Roy (Entrepreneur), Mr. Amar Kumar Yadav (Water Treatment Chemical	11 th Decemb er 2018	A 27 (Dr. Krishna Pal Singh Discussion Hall), BIT Sindri	100-Faculty Members & Students	The themes of the Entrepreneurial Conclave are: 1. Extending the startup era: risks and benefits 2. Staying ahead from your competitors 3. Idea pitching session for students (09 Ideas were pitched) 4. Startup/Incubation policy (Discussed policy to be adopted for	55,003/-
19.	Mr. Abhinav Kumar Sah, 1 st year Mechanical Engineering student has secured 1 st position in the startup event 'Tie-the-knot'(18 th -20 th January 2019) in COGNITIO 2019, organized by Mechanical Engg. Society, NIT Jamshedpur	Jan 2019					





Campus Placement Data

Placement of an institute is vital in many aspects. From determining the quality of the students the institute produces to affirming its repute in the nation; it is certainly important. Dressed up in complete formals, working on their resume to make it best they can in every possible manner, fighting tooth and nail to shape the toil of the four undergraduate years to a perfect conclusion. This year, under the methodical and coherent guidance of Dr. Ghanshyam Rai, Training and Placement Office (TPO), BIT Sindri, amazing placement scenario was observed, inviting multitude of companies like ADITYA BIRLA GROUP, TATA STEEL, HONDA R&D, JINDAL STAINLESS STEEL etc.

According to the statistical data released officially by the TAP cell, the number of students pertaining to different branches placed in the year 2018-19, in the batch of 2015, are:

- *Mechanical Engineering : 30*
- *Electrical Engineering : 33*
- *Production Engineering : 26*
- *Civil Engineering : 23*
- *Computer Science and Engineering : 21*
- *Information Technology Engineering : 18*
- *Electronics and Communication Engineering : 26*
- *Metallurgical Engineering : 38*
- *Mining Engineering : 16*
- *Chemical Engineering : 33*

Curricular achievement & Co-curricular achievement

- *Steel Chair Professor, Ministry of Steel, Govt. of India (2014-18).*
- *All India Rank 19 - by Internshala out of 1800 registered college.*
- *Providing Internship to the students of other Engineering Colleges in Jharkhand through SIEMENS CoE Labs.*
- *Nodal centre of E&ICT academia, Ministry of DeIT, Govt. of India, for the state of Jharkhand.*
- *Two Start-ups have been sponsored by Government of Jharkhand (10 Lakhs) and stipend of 8500 PM per one year.*
- *One Start-up supported by Industry.*



- *One of the student received MITACS Globalink Research Internship for 2019*
- *First position in many sports and cultural events organized by IIT Kgp, IIM Ranchi, XLRI Jamshedpur, NIT Jamshedpur*
- *Excellence performance in competitive examination*
 - *GATE (among top ten rank in the country)*
 - *CAT and UPSC (Civil services, IES), PSUs*
- *Selection of M. Tech. student in TATA Steel for one year project Work. (Dissertation) with additional scholarship of ₹ 20000 apart from GATE scholarship.*



Collaborative Activities

Memorandum of Understandings have been signed with premier institutes, Laboratories and Industries

- *CSIR-CGCRI Kolkata*
- *TATA Steel Jamshedpur*
- *CSIR-CIMFR Dhanbad*
- *SAIL R & D Center, Ranchi*
- *University of Aarhus, Denmark*
- *Tata Institute of Social Sciences (TISS),*
- *Myperfectice Pvt Ltd*
- *IIT (ISM) Dhanbad (Mentor Institution Under TEQIP III)*
- *Centre of Excellences have been inaugurated (14 New Labs set up by Siemens)*

Staff Capacity Program

1. Oct 11-13, 2018

Staff Capacity Development

Under twin activities with IIT (ISM) Dhanbad

Resource Person:

1. Mr. P.R. Sinha (Deputy Registrar, IIT ISM, Dhanbad)

2. Dr. M.K. Singh (Registrar, IIT ISM, Dhanbad)

Topics:

- *Guidelines for preparing Notes and Draft*
- *Leave rules and recruitment rules*
- *Probation and Confirmation*
- *Promotion, Reservation Policy*
- *Guidelines for Seniority*
- *Discipline and conduct rules*
- *General conditions of services*





2. Dec 18-22 Dec, 2018

Five days workshop

Staff capacity Development Phase-II

Topic: Understanding MS Excel for Office Automation





Technical, Sports & Cultural Events

FOYC'18

With the motive of reigniting this prized spirit of a fierce competition coupled with the proper dosage of enjoyment for the freshmen in the campus, LEO Club of B.I.T Sindri organised the most awaited annual event in the premises, 'FRESHER OF THE YEAR' tournament. The 2-day event, FOYC-2018 was concluded with flamboyance and flash, leaving the tired young brains, smiling at the lifetime memories they had garnered after having lived the best days of their college life.

FOYC'18 saw it's inaugural on 27th of April after the announcement of various avant-garde segments beforehand so as to give the students, ample amount of time to equip themselves for the final battle.

This year, the stage was set to witness something new for the events were moulded perfectly so as to fuel the overall development of all the budding technocrats. From Social Screen to Hackathon, every event claimed to have an overwhelmingly enthusiastic fan-base.

All the branches rolled up their sleeves and began preparing to bag the coveted titles. Along with the branch-battle, the newcomers had also brushed themselves up to procure and walk away with the tag of 'Fresher of the Year.'

Out of the ELEGANTS, it was five students who made it to the finale, a majestic finale because it was FOYC-2018. Each of them, indisputably the best of their clans.

Followed this a round of questionnaire by a panel of judges comprising of final year students and esteemed professors of the college, the MAGNAM OPUS. The questions shooted at the participants were diverse and demanded critical thinking as well as prompt answering skills.

After making the perfect deposition of all-round skill-set and subsantiating his worth in all the rounds, ADARSH TIRKEY from the department of Information Technology stepped on the throne as 'FRESHER OF THE YEAR- Class of 2018'.

FOY-2 Kushagra Kumar

FOY-3 Chetna Kotak

FOY-4 Anushka Prasad



FOY-5 Abhinav Sah

TECHNICAL FEST-19

The dawn of 17th March 2019 was unlike any other as it was the one to witness the beginning of the Annual Tech Fest of B.I.T. Sindri, Dhanbad. This year, the Tech-Fest was to be a joint effort by the four well known technical societies in the campus namely Model Club, Institution of Electronics and Telecommunication Engineers (IETE)- Students' Chapter B.I.T. Sindri, Indian Society for Technical Education (ISTE)- Students' Chapter B.I.T. Sindri, and the DEV-SOCIETY(Coding Club of B.I.T. Sindri). The organizers were ready in their laundered dresses, rehearsing their lines lest they were all attacked by bouts of amnesia, waiting eagerly for the curtain to rise. The participants were equally ready with their bots (robots) and their creations to see if the Tech-Fest meets up to their excitements.

- **TECH UDHBAV-19**
- **SANDHAAN-19**
- **TRIVENI-19**







Spardha 2K19

The Sports Club of BIT Sindri organized 63rd edition of its annual sports fest during 24-26 Jan 2019 in the College Ground. The three-day Annual Sports extravaganza, Spardha 2K19 started on 24th of January with the inauguration by our honourable Director sir, followed by the flag march and torch relay and the oath-taking ceremony to instil the spirit of sportsmanship. The first two days were devoted to the heats for the track events, viz 100m, 200m, 400m, 800m, 4*100m relay; for both boys as well as girls. The finals for the field events; namely shot put, long jump, high jump, discus throw, javelin throw were held simultaneously.





Dec 02, 2018

11th Sanskratik Mahotasava

By Cultural Society

Objective: This event is represented KARMA Festival that is celebrated by people of Schedule Tribal. This event inspires to all students towards study and encourage also.

