



CHAIBASA
ENGINEERING COLLEGE

ANNUAL REPORT

2019-2020

**CHAIBASA ENGINEERING
COLLEGE**



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CHAPTER -1 INTRODUCTION**1.1. AN OVERVIEW:**

Chaibasa Engineering College, (Estd. By Govt. of Jharkhand & Run by Techno India Under PPP) is situated 12km north of Chaibasa town, District West Singhbhum, State Jharkhand. The College was started during 2013 in PPP model between Jharkhand Government and Techno India. The College is located on a well-connected ODISHA-TATANAGAR/RANCHI road and spread over a small hill covering 35 Acre of Government build up building/structure. The college started with five engineering faculties- Mechanical, Civil, Electrical, Electronics & communication and Computer science engineering with the approval of AICTE and KOLHAN UNIVERSITY having intake capacity of 60 in each branch. In 2013, the college started its journey as Techno India Chaibasa with around 260 students. In 2014, the college was instructed by Jharkhand Government to be named as Government Engineering College, Chaibasa (Run and managed by Techno India Group). Till now the college is at its eight successive year with 4 batches amounting to a total of 1000 students. During this seven year of operation, the college has achieved several feats. Students of this college have performed exceptionally well in university, some of them being university topper. Furthermore, this college has been recognized as remote center of National Mission on Education through Information Communication Technology (NMEICT). It has conducted STTP and FDP for development of faculties. Along with academic area, our students are also actively engaged in cultural aspects like technical fest 'NAVKRITI' and cultural fest 'Zephyr'. College has provided full support to the students in these aspects. It has also carried out several government programs like Pradhan Mantri Kaushal Vikas Yojna (PMKVY) and 'VittiyaSaksharta Abhiyan'. In the end of 2017, we have received prestigious TEQIP Phase III Funding. Moreover, in June 2020 this Institute has been recognized as virtual lab nodal centre of IIT Bombay & IIT Kanpur.

Chaibasa is a district headquarters and comes under West Singhbhum District. It is around 160kms from the state capital Ranchi. The district is located at 22°55_N and 85°80_E. It has an average elevation of 222 metres (728.34 feet). It shares its border with Khunti District in North, SaraikelaKharshawan district in East, Odhisa Border in south and Simdega district in West. The district is well connected with roads and railways with major cities of Eastern India.

Chaibasa Engineering College (ESTD. By Govt. of Jharkhand & Run by Techno India under PPP) is the first Engineering College in the district and in Santhal Pargana region.

This institute was inaugurated on September 2013 by Honourable Chief Minister Madhu Kora, who assured of its carving a niche in the arena of technical education. Techno India group is entitled to run the institute on public-private partnership mode established by Government of Jharkhand as per Agreement Signed on 05th February 2013.

The Institute had approval from AICTE and affiliated with Kholan University and Jharkhand University of Technology.

The following Undergraduate Programs are taught in the College leading to B. Tech Degree: -

- Electronics and Communication Engineering (Intake: 60)
- Computer Science Engineering (Intake: 60)
- Mechanical Engineering (Intake: 60)
- Electrical Engineering (Intake: 60)
- Civil Engineering (Intake: 60)

All under graduate programs are affiliated to Kolhan University. In the year of 2018 all programs are undergone to the affiliation of Jharkhand University of Technology.

1.2. ADDRESS:

BISTUMPUR, P.O + P.S.: JHINKPANI, West Singhbhum, Jharkhand, Pin-833215.

1.3.VISION OF THE INSTITUTE

To be a place where engineering education is driven by innovative teaching learning method aiming to develop competent professional engineering eraduates by imparting awareness on higher education & sense of responsibility towards society.

1.4.MISSION OF THE INSTITUTE

- Education & sense of responsibility towards society strengthening fundamentals of engineering.
- To provide additional exposure in the form of assignments, training, visits, projects besides curriculum to prepare students for future professional challenges.
- To create an academic atmosphere wherein students will be encouraged to solve real life problems of society by applying engineering knowledge & skill.

CHAPTER -2 INSTITUTE'S BASIC INFORMATION

Chaibasa Engineering college was set up and established in the year 2013 by the Government of Jharkhand under PPP mode, which is Public & Private Partnership mode. Here Private Partner is Techno India Group, which is one of the largest Education houses in North-East India.

2.1. Brief History of Techno India Group:

Established in the year 1985, Techno India Group (TIG) aims to serve the exclusive purpose of delivering quality education in science and engineering in the state of West Bengal, India. Techno India presently stands as one of the most recognized leaders among private education groups in India by virtue of its academic excellence and vast multitude of course offerings. Techno India Group is one of the largest and most acclaimed knowledge management groups in Asia. A collaborator with world's leading IT giant Hewlett Packard (HP), Techno India Group encompasses 100 knowledge campuses with 4 university campuses, 22 Engineering colleges, 12 Business schools, 18 Public schools, 2 upcoming medical colleges and 4 health care units.

Techno India Group has strengthened its original emphasis on science and engineering and expanded to management, medicine and other key areas like Information and Communication Technology, Nanotechnology, Genetics, Biotechnology, Food Technology, Construction Technology, Architecture, Biomedical Technology, Paramedical Sciences, Management Sciences, Sports Technology and Media Science. In an effort to build a solid foundation for the state education system, Techno India has also endeavored to enter into the arena of primary and secondary education by establishing numerous model schools.

Techno India Group has been successful in creating a positive learning experience by investing in remarkable infrastructural facilities, state of the art technologies in its engineering, science and computer labs, highly endowed library facilities and campus wide Wi-Fi enabled communication links. Our successes speak volume about our dedication to quality education. Despite its phenomenal growth, Techno India still remains a dedicated family of 2500 professionals including doctors, engineers, scientists, chartered accountants, lawyers and management professionals dedicated to the same cause that inspired us in our inception.

Techno India Group aims to create a better India by efficiently preparing the youth to cater to the technological advancements of the century. The innovative courses at the organization have set the students apart from the rest, thus making TIG one of a kind. The latest feather added to its cap is the establishment of Techno India University, West Bengal at Salt Lake.

2.2. Under Graduate Academic Programs:

SL. No.	Name of the Program	Degree Offered	Sanctioned Seat
1	Electronics and Communication Engineering	B. Tech (4 Years)	60
2	Computer Science Engineering	B. Tech (4 Years)	60
3	Mechanical Engineering	B. Tech (4 Years)	60
4	Electrical Engineering	B. Tech (4 Years)	60
5	Civil Engineering	B. Tech (4 Years)	60

2.3. Admission Procedure:

Chaibasa Engineering college has adopted Govt. of Jharkhand Guidelines for admission into various programmes run by Institute.

B.Tech (Full Time) :

Admission to 1st year B.Tech & 2nd Year B.Tech (lat. Entry) are made through JCECEB counselling for the 75% intake of the institute. Remaining 25% admissions are made Under Institutional quota. In this segment based on the marks & merit list students are allowed to take admission.

All admissions are made as per AICTE & Affiliating Boards norm

2.4. Affiliating university:

Chaibasa Engineering college is affiliated under Kolhan University since inception (i.e 2013). However, the State Technical University of Jharkhand has been set up by the name of Jharkhand University of Technology (JUT) & it has been made operational from this academic year itself i.e. 2018-19. Due to Govt. of Jharkhand latest order all technical institutes came under JUT by default effective from academic year 2018-19.

Therefore 1st year admitted students will enroll themselves under JUT & curriculum approved by JUT has been taught to them.

However, existing batches are still under earlier affiliated university i.e Kolhan University.

So, currently Institute has two affiliating University.

Kolhan University, Chaibasa (For 4th Year)

Jharkhand University of Technology, Ranchi (1st Year, 2nd Year, 3rd Year)

2.5. Academic Autonomy:

Chaibasa Engineering College does not have Academic autonomy as it is an affiliated institute & all curriculum & exist examinations are designed by University.

Institute does not have the right to change their academic curriculum.

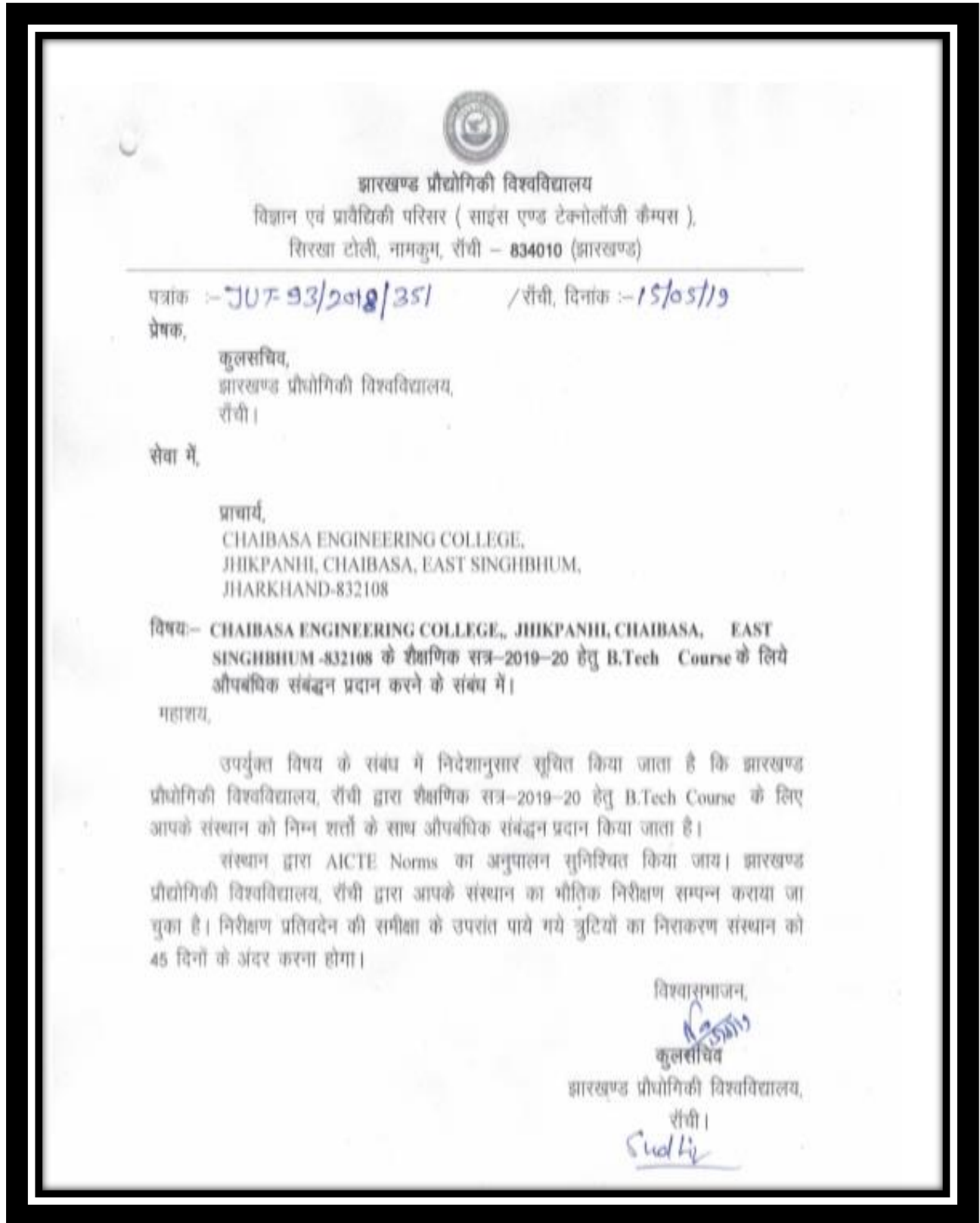



Figure: 1 Affiliation letter from JTU for 2019-20

AICTE approval letter for 2020-21

All India Council for Technical Education							
(A Statutory body under Ministry of HRD, Govt. of India)				Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org			
APPROVAL PROCESS 2020-21							
Extension of Approval (EoA)							
F.No. Eastern/1-7010307845/2020/EQA				Date: 30-Apr-2020			
To,							
The Principal Secretary (Science & Tech. Deptt.) Govt. of Jharkhand Nepal House, Dhurwa, Ranchi-834002							
Sub: Extension of Approval for the Academic Year 2020-21							
Ref: Application of the Institution for Extension of Approval for the Academic Year 2020-21							
Sir/Madam,							
In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2020 notified by the Council vide notification number F.No. AB/AICTE/REG/2020 dated 4 th February 2020 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to							
Permanent Id	1-1607768251			Application Id	1-7010307845		
Name of the Institute	CHAIBASA ENGINEERING COLLEGE (ESTD. BY GOVT. OF JHARKHAND & RUN BY TECHNO INDIA UNDER PPP)			Name of the Society/Trust	GAMA TECHNO EDUCATION		
Institute Address	JHIKPANI, CHAIBASA, JHARKHAND, EAST SINGHBHUM, CHAIBASA, WEST SINGHBHUM, Jharkhand, 832108			Society/Trust Address	SILLI POLITECHNIC INSTITUTE, P.O.-LOTA, P.S.-SILLI, RANCHI - 835102, SILLI, RANCHI, 835102		
Institute Type	Govt aided			Region	Eastern		
To conduct following Courses with the intake indicated below for the Academic Year 2020-21							
Program	Level	Course	Affiliating Body (University /Body)	Intake Approved for 2019-20	Intake Approved for 2020-21	NRI Approval Status	PIO / FN / Gulf quota/ OCI/ Approval Status
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	COMPUTER SCIENCE & ENGINEERING	JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI	60	60	NA	No
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI	60	60	NA	No
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	ELECTRICAL ENGINEERING	JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI	60	60	NA	No
Application No:1-7010307845				ALL INDIA COUNCIL FOR TECHNICAL EDUCATION			
Note: This is a Computer generated Report. No signature is required.				Page 1 of 3			
Printed By : aicn06891				Letter Printed On:26 May 2020			

ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	MECHANICAL ENGINEERING	JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI	60	60	NA	No
ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	CIVIL ENGINEERING	JHARKHAND UNIVERSITY OF TECHNOLOGY, RANCHI	60	60	NA	No

It is mandatory to comply with all the essential requirements as given in APH 2020-21 (Appendix E)

Important Instructions

1. The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% of reservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from the Academic year 2020-21 is implemented without affecting the reservation percentages of SC/ ST/ OBC/ General. However, this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution of India. Such Institution shall be permitted to increase in annual permitted strength over a maximum period of two years beginning with the Academic Year 2020-21
2. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time now amalgamated as total intake shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2020-21 for the Total Approved Intake. Further, the Institutions Deemed to be Universities/ Institutions having Accreditation/ Autonomy status shall have to maintain the Faculty: Student ratio as specified in the Approval Process Handbook. All such Institutional/ Universities shall have to create the necessary Faculty, Infrastructure and other facilities WITHIN 2 YEARS to fulfil the norms based on the Affidavit submitted to AICTE.
3. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.
4. Strict compliance of Anti-Ragging Regulation: - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 373/Legal/AICTE/2008 dated July 1, 2008 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Prof.Rajive Kumar
Member Secretary, AICTE

Copy to:

1. The Director Of Technical Education¹, Jharkhand
2. The Registrar²,
Jharkhand University Of Technology, Ranchi
3. The Principal / Director,
CHAIBASA ENGINEERING COLLEGE (ESTD. BY GOVT. OF JHARKHAND & RUN BY TECHNO INDIA UNDER PPP)
Jhikpani,Chaibasa, Jharkhand, East Singhbhum,
Chaibasa,West Singhbhum,
Jharkhand,832108
4. The Secretary / Chairman,
SILLI POLYTECHNIC INSTITUTE, P.O.-LOTA, P.S.-SILLI,

RANCHI - 835102,
SILLI,RANCHI
,835102

5. The Regional Officer,
All India Council for Technical Education
College of Leather Technology Campus
Block LB, Sector II, Salt Lake City
Kolkata - 700 098, West Bengal

6. Guard File(AICTE)

Note: Validity of the Course details may be verified at <http://www.aicte-india.com/>

*** Individual Approval letter copy will not be communicated through Post/Email. However, consolidated list of Approved Institutions(bulk) will be shared through official Email Address to the concerned Authorities mentioned above.

Application No:1-7010307496 ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Page 2 of 2
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Figure:2 JUT approval letter

CHAPTER -3 INSTITUTE GOVERNANCE**3.1 GOVERNING BODY:**

Chaibasa Engineering College is governed by the rules & regulation of Jharkhand state in accordance with the AICTE norms.

Major Decision-making body of the institute is “**Governing Body**”. As per the AICTE norm following listed Governing Body is functional in the institute are: -

SL. No.	Name	Designation	Nominated By
1	Dr. Sudipta Chakraborty	Chairperson	Trust/Sec25 Company
2	Prof. Mohit Chatterjee	Member	Trust/Sec25 Company
3	Dr. Bishnu Brata Chattopadhyay	Member	Trust/Sec25 Company
4	Mr. Anit Adhikari	Member	Trust/Sec25 Company
5	Mr. Kunal Ganguly	Member	Trust/Sec25 Company
6	Mr. Debabrata Raha	Member	Representative of the faculty community
7	Mr. Saunak Bhattacharya	Member	Representative of the faculty community
8	Nominee of AICTE (Ex-Officio)	Member	AICTE Representative
9	Govt. of Jharkhand –Director of Technical Education-Ex-Officio	Member	State Govt. Representative
10	D. N.Mahato (Nominee of University)	Member	KU Representative
11	Nominee of Jharkhand University of Technology	Member	JUT Representative
12	Nominee of Mentor Institute	Member	NIT Warangal Representative
13	Prof. (Dr.) Ranjit Roy	Member Secretary	Principal, C.E.C

3.2 ORGANIZATIONAL HIERARCHY:

Institute follow following hierarch for the day to day operations.

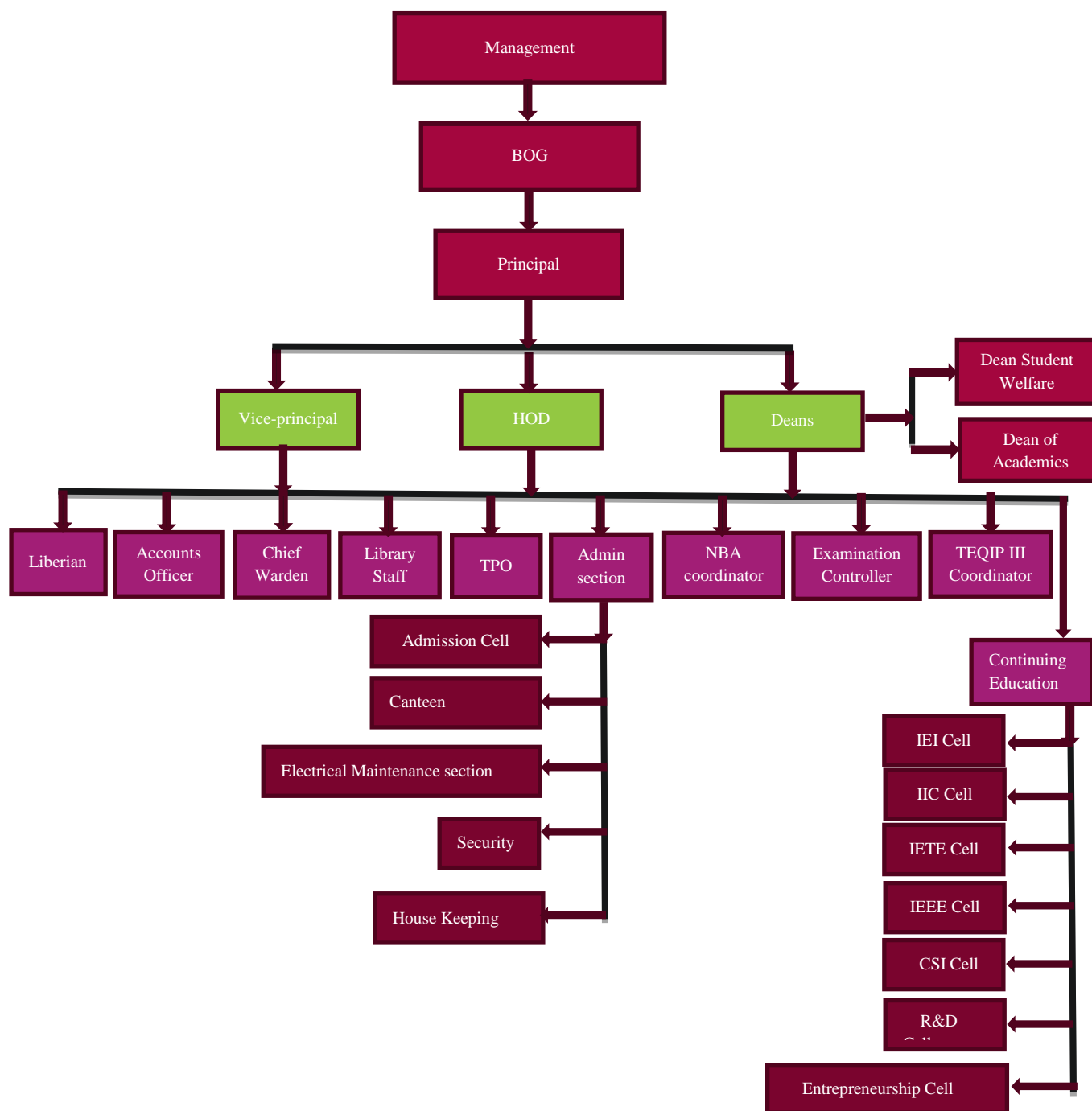


Figure: 3 Institute Administrative Setup

3.3. WORK FLOW OF INSTITUTE GOVERNANCE:

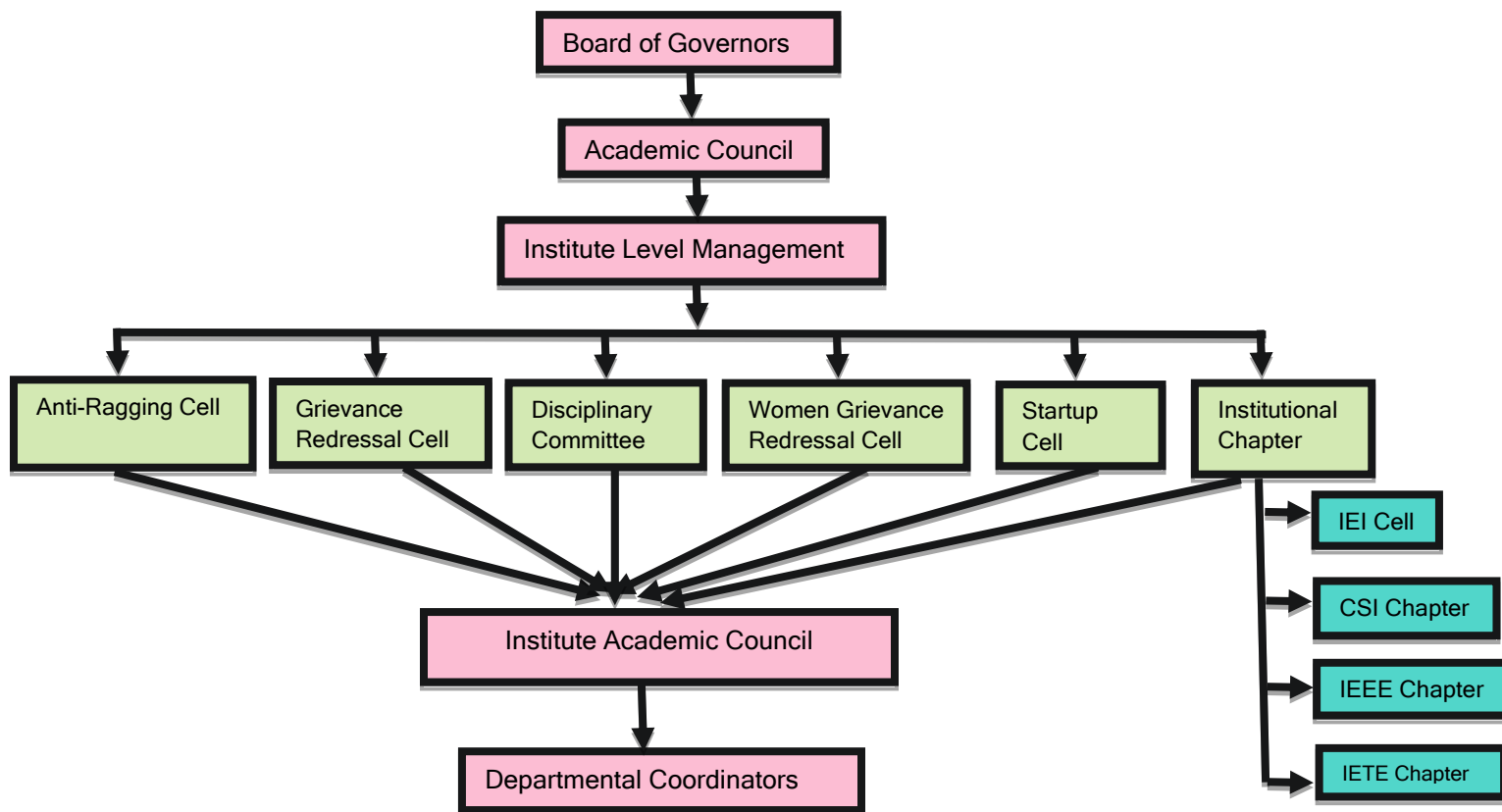


Figure:4 Institute Governance workflow

3.4. POSITION AND FUNCTION OF DIFFERENT ADMINISTRATIVE BODIES:

SL. No.	Position	Functions
1.	Governing Council	To discuss various issues and aspects related to the development of the college and its academic standards. It includes considering and approving the Institution's strategic plan which sets the academic aim and objectives of the Institution and identifies the financial, physical and staffing strategies and so on. It chalks out a roadmap in order to achieve the goals of the Institute.

2.	Principal	<p>Design & define organization structure Define & delegate responsibilities of various positions in the organization Ensure periodic monitoring & evaluation, of various processes & sub-processes Ensure effective purchase procedure Define quality policy and objectives Prepare annual budget Conduct periodic meeting of various bodies such as Governing Council, LMC, Standing Committee and Grievances Redressal Committee etc. Manage accounts and finance Office Administration Compliance with AICTE, DTE & University Admission Resource Generation Internal and External examinations Library Up gradation</p>
3.	Vice Principal	<p>To discharge routine duty of Principal during absence of Principal Project related activities given by Head office and Principal Clubs and society Effective purchase procedure Interaction with HODs, different committee members Alumni interaction Supervision of academic calendar Oversee the teaching-learning process Supervision of result analysis and submit corrective measures to Principal. Initiate supplementary teaching measures Extra and Co-curricular activities Formation of student council</p>
4.	HOD	<p>Plan and execute academic activities of the department Maintain discipline and culture in the department Maintain the department neat and clean Pick and promote strengths of students / faculty/ staff Monitor academic activities of the department Propose Department's Budget Maintain records of departmental activities and achievements</p>
5.	Deans	<p>To arrange for congenial living environment in the campus including Hostels for the students. To monitor day to day essential support required for academic and co-curricular activities of students To prepare plan and execute programs for academic and holistic development of the students. To advice Student Council as and when required To arrange for maintenance of students' discipline in the institute To direct Hostel Wardens, Cultural Officer for all matters related to students' Welfare.</p>

CHAPTER – 4 INFRASTRUCTURE**4.1 Instructional Area**

Particulars	Area/number as per AICTE Norms (*Refer AICTE Approval Process Hand Book)	Area / No. available
Classroom (Size)	66 Sq. M	66 Sq. M
No. of Classrooms	15	15
Tutorial Room (Size)	33 Sq. M	33 Sq. M
No. of Tutorial Room	06	06
Drawing Hall (Size)	132 Sq. M	132 Sq. M
Computer Center (Size)	150 Sq. M	150 Sq. M
Workshop (Size)	200 Sq. M	200 Sq. M
Laboratories (Size)	66 Sq. M	66 Sq. M
No. of Labs	40	40
Physics Lab (Size)	66 Sq. M	66 Sq. M
Chemistry Lab (Size)	66 Sq. M	66 Sq. M
Library & Reading Room (Size)	400 Sq. M	400 Sq. M
Seminar Hall (Size)	132 Sq. M	132 Sq. M
Seminar Hall	2.5	2.5

4.2 Laboratory Details:

SL. No.	Department & 1st year's common sub. lab	Name of Laboratory (*As per syllabus of JUT)	Carpet Area (Sq.mt.)
01	Basic Science & Humanities	Physics Lab	115.6
		Chemistry Lab	132
		Language Lab	115.6
		Drawing Hall	132
		Workshop	250
		Basic Electronics Lab	100
		Basic Electrical Lab	100
		Computer Centre	100
02	Computer Science Engineering	Computer Programming Lab	100
		Numerical Analysis and Computer Programming Lab	100
		Computer Organization Lab	100
		Data Structure Lab	100

		System Software Lab	100
03	Electronics and Communication Engineering	Solid State Devices Lab	90
		Electronics-II Lab	90
		Electronics Circuit Lab	90
		Switching and Pulse Theory Lab	94
		Electronics Measurement Lab	94
		Linear IC's And Applications Lab	90
		Microwave Engineering Lab	100
		Microprocessor Lab	100
		Optical Communication Lab	100
		Computer Lab	90
		Communication Engineering Lab	100
04	Electrical Engineering	Electrical Machine I & Electrical Machine II Lab	100
		Power System I & Power System II Lab	100
		Control System Lab	80
		Power Electronics Lab & Drives Lab	100
		Power System Protection Lab	100
		Computer Aided Power System & Circuit Theory Lab	100
		PMKVY Lab	40
05	Mechanical Engineering	Drawing Hall	148.32
		Mechanical Measurement & Metrology	36.66
		Dynamic of Mechanics Lab & Applied Thermodynamics Lab	109.02
		Refrigeration and Air condition Lab & Material Science Lab	97.17
		CNC Machine Shop	97.96
		Fluid Mechanics Lab	148.52
		Automobile Engineering Lab	148.52
		Automobile Lab	37.92
		Computer Lab	97.96
		ME Workshop No 2,3,4	250 (each)
06	Civil Engineering	CE Work shop	200
		CE Drawing Hall	132
		Concrete Technology Lab	66
		Geo-Technical Engineering Lab	66
		Transportation Engineering Lab	66
		Environmental Engineering Lab	66

4.3 Administrative Area

Particulars	Area/number as per AICTE Norms (*Refer AICTE Approval Process Hand Book)	Area / No. available
Principal Room (Size)	30 Sq.M	01/30 Sq.M
Head of Department Room (Size)	20 Sq.M	06/20 Sq.M
Department Office (Size)		
Faculty Room (Size)	5 Sq.M per Faculty Member	300 Sq.M
Central Store Room (Size)	30 Sq.M	30 Sq.M
Maintenance (Size)	30 Sq.M	30 Sq.M
College Office (Size)	150 Sq.M	150 Sq.M
Board Room (Size)	20 Sq.M	20 Sq.M
Security Room (Size)	10 Sq.M	10 Sq.M
House Keeping (Size)	10 Sq.M	10 Sq.M
Examinations control Office (Size)	30 Sq.M	30 Sq.M
Placement Office (Size)	30 Sq.M	30 Sq.M
Pantry for Staff (Size)	10 Sq.M	10 Sq.M

4.4. AMENITIES AREA:

Particulars	Area/number as per AICTE Norms (*Refer AICTE Approval Process HandBook)	Area / No. available
Sports Club/Gymnasium	Desirable	No
Boys' Common Room	75 Sq.M	75 Sq.M
Girls' Common Room	75 Sq.M	75 Sq.M
Cafeteria	150 Sq.M	150 Sq.M
Toilets	10 Sq.M	10 Sq.M
First Aid cum Sick Room	10 Sq.M	10 Sq.M
Stationery Store and Reprography	10 Sq.M	10 Sq.M
Auditorium / Amphi Theater	Desirable	No

4.5. ESSENTIAL FACILITIES OTHER DESIRABLE FACILITIES (AS PER AICTE NORMS)

SL. No.	Particulars	Yes / No
01	Language / Communication Lab	Yes
02	Potable Water Supply	Yes
03	Barrier Free Built Environment	Yes
04	Sewage Disposal System	Yes
05	Vehicle Parking	Yes
06	Mandatory disclosures, Previous AICTE Approvals inthe website	Yes
07	Digital Payment for all Financial Transactions	Yes
08	Safety and Security measures in the Campus	Yes
09	Safety provisions including fire and other calamities	Yes
10	Implementation of Food Safety and Standards Act, 2006	Yes
11	General Insurance for assets	Yes
12	General and Departmental Notice Board	Yes
13	Group Insurance for employees	Yes
14	First aid, Medical and Counseling Facilities	Yes
15	Insurance for students	Yes
16	Institution-Industry Cell	Yes
17	Placement Cell	Yes
18	Online Grievance Redressal Mechanism	Yes
19	All weather Road (Motorized Road)	Yes
20	Anti-Ragging Committee	Yes
21	Internal Complaint Committee	Yes
22	Committee for SC/ ST	Yes
23	Digital Library	Yes
24	Wi-Fi Campus	Yes
25	Hostel for Boys	Yes
26	Electric Generator	Yes
27	Hostel for Girls	Yes
28	Principal Quarter	Yes
29	Staff Quarter	Yes
30	Guest House	Yes
31	Play Ground	Yes
32	Sports Complex	No
33	Post Office, Banking Facility/ ATM	No
34	Transport	Yes
35	Smart Classroom	Yes
36	Rain Water Harvesting	No

CHAPTER – 5 PROGRAMMES & ACCREDITATION**5.1. UG PROGRAMMES:**

Following undergraduate programs are being run at Chaibasa Engineering College.

SL. No.	Name of the Program	Degree Offered	Sanctioned Seat
1	Electronics and Communication Engineering	B. Tech (4 Years)	60
2	Computer Science Engineering	B. Tech (4 Years)	60
3	Mechanical Engineering	B. Tech (4 Years)	60
4	Electrical Engineering	B. Tech (4 Years)	60
5	Civil Engineering	B. Tech (4 Years)	60

5.2 SEAT STATISTICS IN TERMS OF RESERVATION & OTHER FACTORS:

Chaibasa Engineering College follow reservation policy of MHRD, Govt. of India. Since the institute is being run in PPP mode hence, we have a concession agreement signed between Govt. of Jharkhand & Techno India Group, which is the basic rule book for this institute. As per the agreement 75% of total intake is controlled by Govt. of Jharkhand & other 25% is controlled by Institute.

Free Seat (As per reservation policy)	Payment Seat (As per reservation policy)	Institutional Quota	TFW (Supernumerary)	Total
53%	22%	25%	5%	100%

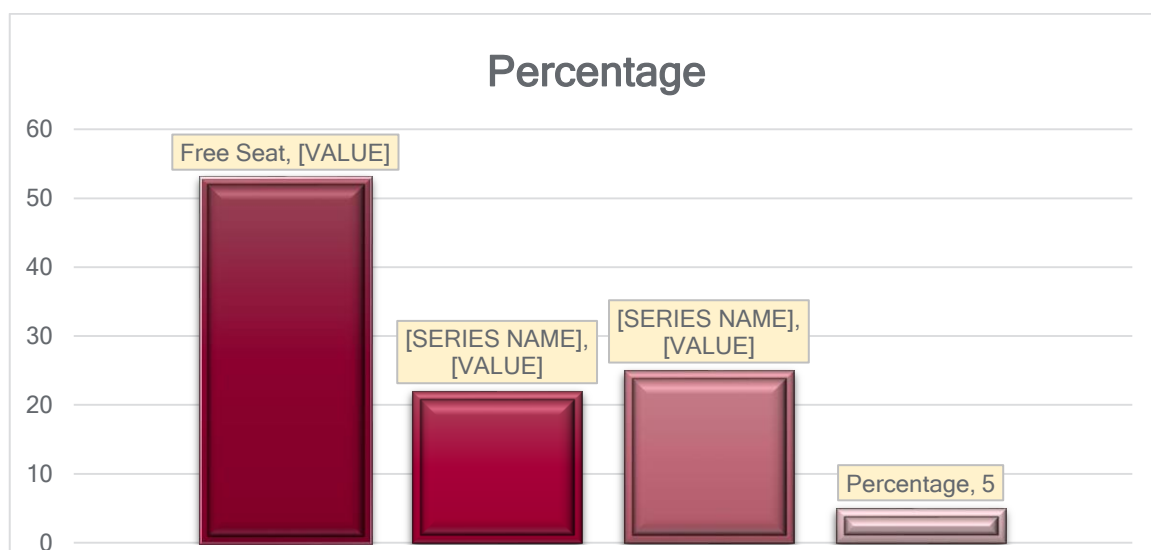


Figure:5 Seat Sharing Formula

5.3. Free Seat Bifurcation:

Free seat is further shared in the following segments:

Unreserved	ST	SC	BC – I	BC - II
50%	26%	10%	8%	6%

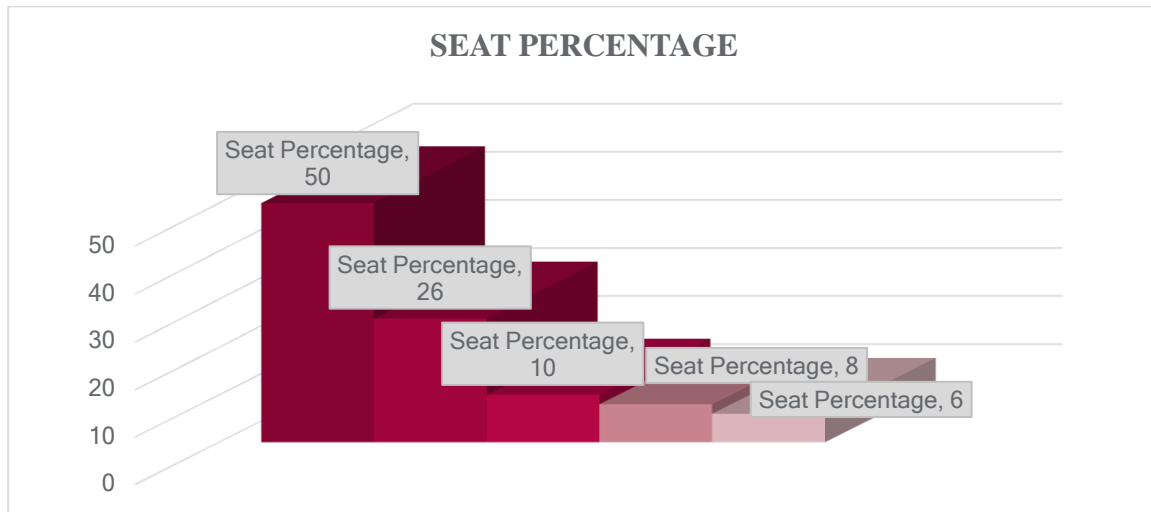


Figure: 6 Reservation Seat Bifurcation under Free Seat Segment

5.4 NBA Accreditation:

Chaibasa Engineering College had completed their NBA registration in the month of June 2019. Preparation for the NBA is in full swing, documentation preparation & others works are in process;



This year on 27.06.2019 we have submitted our E-SAR for three Departments;

- Computer Science & engineering
- Electronics & Communication Engineering
- Mechanical Engineering

6070219

ACCREDITATION WORKFLOW
Management System

eNER

(./Institute/Welcome.aspx)

(./Institute/Welcome.aspx)

Chaibasa Engineering College(Estd. by govt. of Jharkhand & Run by Techno India Under PPP)

(./Institute/Welcome.aspx)

Change Password (./Account/ChangePassword.aspx?name=) Logout

Home 27-06-2019 19:01:35

New Self Assessment Report (Tier –II)

Application ID: 3830	Program Name : Computer Science & Engg.
Discipline: Engineering & Technology	Level : Under Graduate
Tier: 2	SAR Status : True

SAR is submitted for the application and program you are not allowed to submit again. You can view the uploaded SAR after the final submission.

The National Board of Accreditation (NBA) announces New Self Assessment Report (SAR) format for Non-autonomous Institutions (Tier-II Institutions) for the Under Graduate Engineering Programs (Tier II SAR US (Engineering), with effect from June 1, 2015.

The institutions are given the following options:

1. Institutions which have already submitted SAR in the existing format, will have an option to either continue in the same format or prepare the SAR in new format. This option will be available till September 30, 2015.
2. Institutions, which are already in process of filling eSAR will have an option to either continue in the same format or prepare the SAR in new format. This option will be available till September 30, 2015.
3. Institutions wishing to submit fresh applications will have an option to do so either in the earlier (existing) Tier-II SAR format or the new Tier-II SAR format till September 30, 2015.

As the implementation of the new SAR in eNBA is under process, institutions willing to apply in new format are requested to click on the link provided below:

[Self assessment report tier II \(http://www.nbaind.org/Files/sar-up-t-II-final-ver-06.pdf\)](http://www.nbaind.org/Files/sar-up-t-II-final-ver-06.pdf)

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(./Institute/Welcome.aspx)

Chaibasa Engineering College(Estd. by govt. of Jharkhand & Run by Techno India Under PPP)

(./Institute/Welcome.aspx)

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Home 27-06-2019 19:02:18

New Self Assessment Report (Tier –II)

Application ID: 3830	Program Name : Electronics & Communication Engg.
Discipline: Engineering & Technology	Level : Under Graduate
Tier: 2	SAR Status : True

SAR is submitted for the application and program you are not allowed to submit again. You can view the uploaded SAR after the final submission.

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New Self Assessment Report (Tier –II)

Application ID: 3830	Program Name : Mechanical Engg.
Discipline: Engineering & Technology	Level : Under Graduate
Tier: 2	SAR Status : True

SAR is submitted for the application and program you are not allowed to submit again. You can view the uploaded SAR after the final submission.

The National Board of Accreditation (NBA) announces New Self Assessment Report (SAR) format for Non-autonomous Institutions (Tier-II Institutions) for the Under Graduate Engineering Programs (Tier II SAR US (Engineering), with effect from June 1, 2015.

The institutions are given the following options:

1. Institutions which have already submitted SAR in the existing format, will have an option to either continue in the same format or prepare the SAR in new format. This option will be available till September 30, 2015.
2. Institutions, which are already in process of filling eSAR will have an option to either continue in the same format or prepare the SAR in new format. This option will be available till September 30, 2015.
3. Institutions wishing to submit fresh applications will have an option to do so either in the earlier (existing) Tier-II SAR format or the new Tier-II SAR format till September 30, 2015.

As the implementation of the new SAR in eNBA is under process, institutions willing to apply in new format are requested to click on the link provided below:

[Self assessment report tier II \(http://www.nbaind.org/Files/sar-up-t-II-final-ver-06.pdf\)](http://www.nbaind.org/Files/sar-up-t-II-final-ver-06.pdf)

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Figure: 7 NBA E-SAR of ME, CSE, ECE

CHAPTER – 6 STUDENT DETAILS

6.1 General Admitted Statistics:

This academic year 2019-20 following number of students were admitted: (REGULAR 2019-23)

SL. No.	Name of the Department	No. of Regular Students Admitted	Sanctioned Intake	Admission Percentage
1	Electronics & Communication Engineering	13	60	21.67
2	Computer Science Engineering	23	60	38.33
3	Electrical Engineering	17	60	28.33
4	Mechanical Engineering	21	60	35
5	Civil Engineering	22	60	36.67
	Total	96	300	32

This academic year 2019-20 following number of students were admitted: (LATERAL 2018-22)

SL. No.	Name of the Department	No. of Lateral Students Admitted	Sanctioned Intake
1	Electronics & Communication Engineering	8	12 + 20**
2	Computer Science Engineering	19	12 + 10**
3	Electrical Engineering	30	12 + 20**
4	Mechanical Engineering	22	12 + 15**
5	Civil Engineering	23	12 + 15**
	Total	102	

**Previous year vacancy.

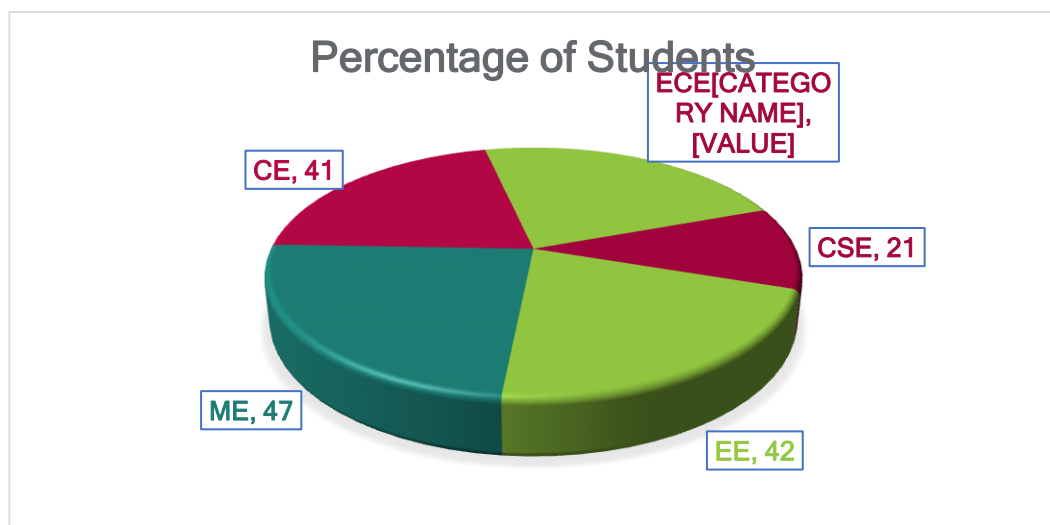


Figure: 8 Percentage of Students Admitted year 2019-20

6.2. Admission Statistics in Terms of Reservation:

Representation of admitted students for CAY 2019-20 in terms of reservation:

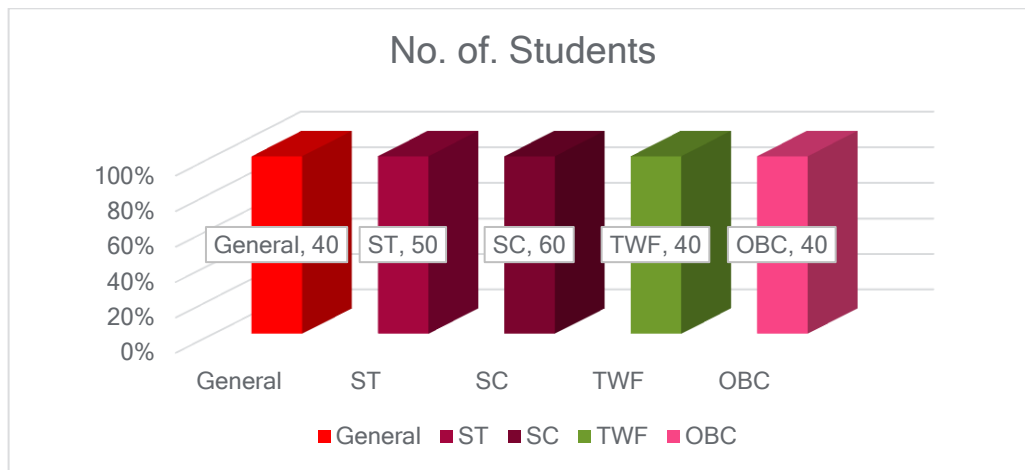


Figure: 9 Graphical representation of students' admission in CAY 2019-20

6.3. Department wise Male Female Statistics:

Department wise male female statistics admitted in AY 2019-20 are shown below: (REGULAR + LATERAL)

SL. No.	Name of the Department	No. of Female Students	No. of Male Students	Total Students
1	Civil Engineering	4	41	45
2	Computer Science Engineering	13	29	42
3	Electrical Engineering	12	35	47
4	Electronics & Communication Engineering	8	13	21
5	Mechanical Engineering	4	39	43

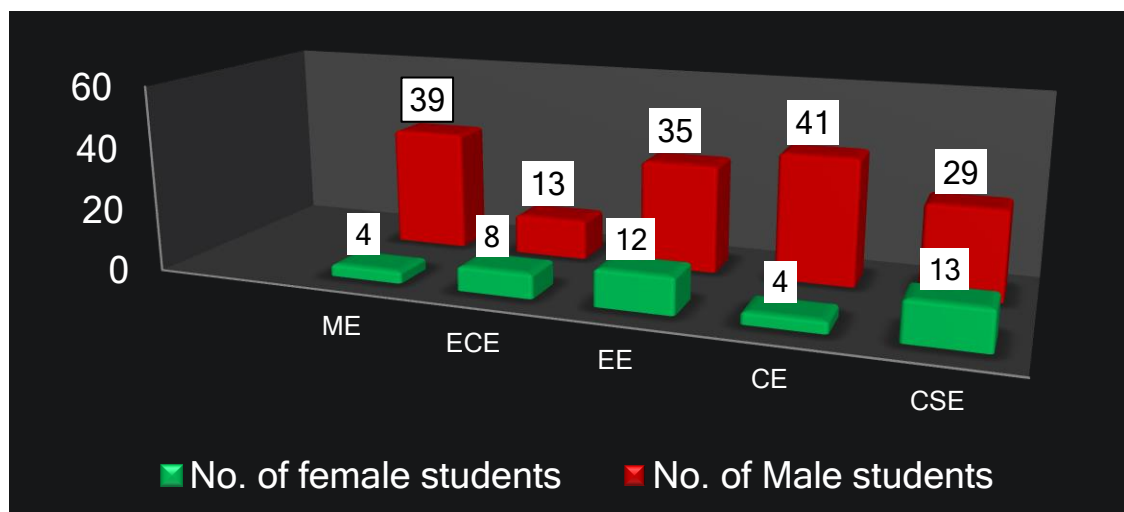


Figure: 10 Male-Female department wise statistics

6.4 Institute level Male – Female statistics:

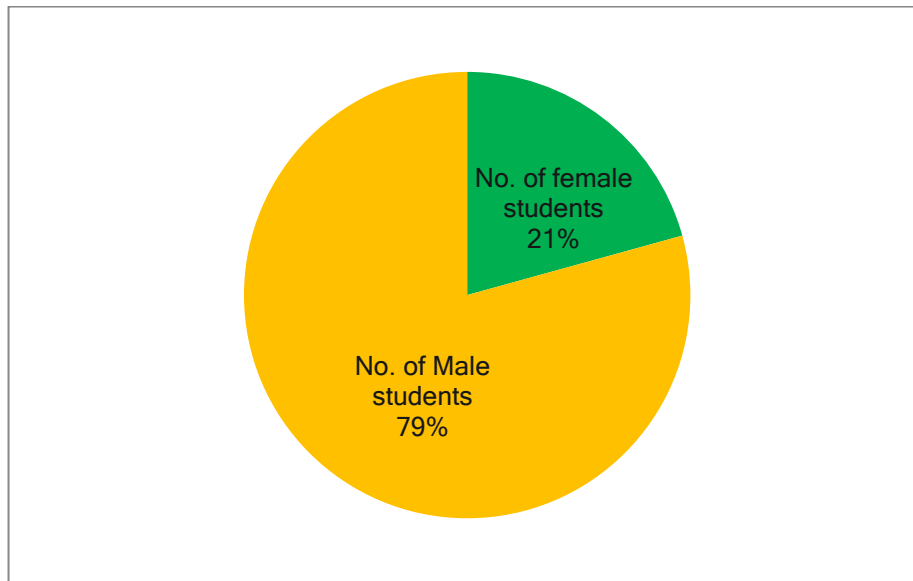


Figure: 11 Male-Female Institute Statistics

6.5 Total Student Statistics in AY 2019-20

Sl. No.	Batch (Session)	Current year	Total No. of students
1	2016-2020	Final Year	254
2	2017-2021	Third Year	212
3	2018-2022	Second Year	238
4	2019-2023	First Year	96

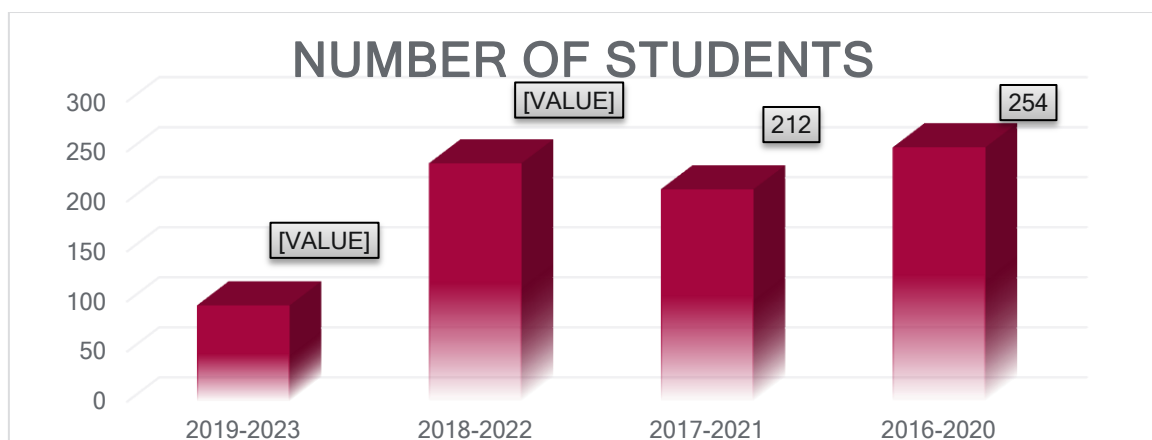


Figure: 12 Year Wise number of students

CHAPTER – 7 HUMAN RESOURCE

SL. No.	Employees Name	Designation	Department	DOJ
Mechanical Engineering Department				
1	NITISH KUMAR	AP	ME	10-08-2015
2	MD. SHAMIM RAZA	AP	ME	27-11-2015
3	HEMANT KUMAR SINGH	AP	ME	16-06-2016
4	SUDEB BAGCHI	AP	ME	13-09-2016
5	SAMRATMANDAL	AP	ME	15-09-2018
6	VIKASH SIRVASTAVA	AP	ME	29-09-2018
7	DR. ASHISH NARAYAN	ASP	ME	06-06-2019
8	DR. SANJAY KUMAR	ASP	ME	11-06-2019
9	ATANU MUKHERJEE	AP	ME	12-09-2015
10	RAM SAGAR MAHTO	TA	ME	04-26-2016
11	ALPHONS SUNIL LAKRA	TA	ME	04-06-2016
Basic Science & Humanities Department				
1	DR. DINBANDHU MANDAL	AP	BSH-Math	05-12-2013
2	MANOJ KUMAR MANDAL	AP	BSH-Physics	01-09-2013
3	UJJWAL GHOSH	AP	BSH-Math	24-08-2014
4	DR. SURESH KUMAR	AP	BSH-Physics	09-02-2015
5	JAYA MUKHERJEE	AP	BSH	19-02-2016
6	DR. TARASHANKAR DAS	AP	BSH	14-12-2017
Electronics & Communication Engineering Department				
1	SAUNAK BHATTACHARYA	AP	ECE	22-08-2013
2	DEBABRATA RAHA	AP	ECE	13-08-2013
3	DEBABRATA KUMAR DAS	AP	ECE	12-09-2019
4	SANGEETA DEBBERMAN	AP	ECE	23-11-2019
5	DR. ABHIJIT KUNDU	ASP	ECE	24-06-2016
6	DR. RANADIP KUNDU	ASP	ECE	24-08-2016
7	DIPANJAN SAR	TA	ECE	01-05-2019
8	VAIBHAV	AP	ECE	28-09-2018
Electrical Engineering Department				
1	SUBHADIP PAN	AP	EE	30-06-2014
2	CHAYAN CHAKRABORTY	AP	EE	07-02-2019
3	AKASH KUMAR	AP	EE	27-06-2019
4	ANIL KUMAR	AP	EE	04-01-2018
5	NISHANT KUMAR	AP	EE	04-01-2018
6	SUTRISHNA KHAN	TA	EE	29-04-2018
7	RAKESH KR. GUPTA	TA	EE	20-04-2016

CHAIBASA ENGINEERING COLLEGE

Computer Science & Engineering Department				
1	BAPPADITYA JANA	AP	CSE	29-11-2017
2	SUBASHIS KARMAKAR	AP	CSE	17-08-2015
3	BIAS BHADRA	AP	CSE	10-08-2016
4	SINIL KUMAR GOUDA	AP	CSE	04-01-2018
5	ARIJIT DUTTA	Ap	CSE	28-05-2019
6	SUBHAM CHAKRABORTY	AP	CSE	22-07-2019
7	PRADIP ACHARJEE	Network Administrator	CSE	03-10-2018
Civil Engineering Department				
1	SANTOSH KUMAR	AP	CE	27-01-2015
2	RINA KUMARI	AP	CE	03-04-2016
3	MRIGENDRA KUMAR	AP	CE	14-12-2016
4	RAMAN KUMAR	AP	CE	18-01-2018
5	VANDANA ANANAD	AP	CE	18-01-2018
6	UJJWAL MONDAL	TA	CE	12-02-2016
Librarian				
1	NIRAJ KUMAR	Librarian	Library	09-04-2015
2	SUMIT MANDAL	Librarian	Library	26-08-2017
3	RAVI RANJAN	Library Asst	Library	19-08-2013
Admin				
1	PROF. (DR.) RANJIT ROY	Principal	Administrative	27-06-2019
2	SUNIL KUMAR MAHATO	Office Staff	Admin	19-08-2013
3	KRISHNA KUMAR DAS	Care Taker	Admin	19-08-2013
4	MUKESH KUMAR	Electrician	Admin	21-03-2015
5	UTTAM DAS	Plumber	Admin	12-02-2016
6	ABHAY KUMAR	Office Executive	Admin	01-05-2016
7	RAMTANU PAUL	Network Administrator Cum TEQIP	Admin	12-09-2017
8	SOUMEN GANGULY	College Administrator	Admin	09-06-2017
9	ARVIND KUMAR PANDAY	TPO	Admin	07-03-2017
10	SALIM REZA	Office staff	Admin	05-06-2019

CHAPTER – 8 TEQIP – III CELL OFFICIALS

SL. No.	Name of Person	Post handle
1	Mr. Saunak Bhattacharya	TEQIP-III Coordinator
2	Dr. Dinbandhu Mandal	Nodal Officer Academic
3	Mr. Sudeb Bagchi	Nodal Officer Procurement
4	Mrs. Bias Bhadra	Nodal Officer Finance

CHAPTER – 9 DEPARTMENT PROFILE**9.1 MECHANICAL ENGINEERING**

Department of Mechanical Engineering was established in 2013 with an intake of 60. The department has faculties with industry and research experience. Most of the faculties underwent the FDP's and strive hard towards the employability of the students. The Department takes pride in achievements of its alumni, who have shined in various walks of life. Technical knowledge is upgraded by conducting research activities/workshops/seminars/conferences. Regular Industrial visits are held to correlate institute and industry interaction.

9.1.1 DEPARTMENTAL ACHIEVEMENTS

1. Organized one day seminar on “**Recent Development on Welding Process-2019 (RDWP-2019)**” on dated **14.09.19** at **Chaibasa Engineering College** Sponsored by TEQIP-III.
2. Organized five days Faculty Development Program (FDP) on **AutoCAD & Solid works** from **21.09.19 to 25.09.19** at **Chaibasa Engineering College** in collaboration with **Indian Institute of Technology Kharagpur, CWISS Kharagpur** Sponsored by TEQIP-III.
3. Organized five days Faculty Development Program on “**Outcome Based Education (NBA)**” from **22.10.19 to 26.10.19** at **Chaibasa Engineering College** in collaboration with **NITTTR Kolkata** Sponsored by TEQIP-III.
4. Organized one day seminar on “**Renewable Energy Application in Mechanical Engineering (REAME-2019)**” on dated **08.11.19** at **Chaibasa Engineering College** Sponsored by TEQIP-III.
5. Organized one day seminar on “**Application of Fluid Mechanics and Fluid Mixing**” on dated **12.12.2019** at **Chaibasa Engineering College** Sponsored by TEQIP-III.
6. Organized one day training on “**3D Engineering Design and Innovation**” by **Elmax System and Solutions** on dated **20.11.19** at **Chaibasa Engineering College**.
7. One Day Industry Visit in **Indo Danish Tool Room, Jamshedpur** Sponsored by TEQIP-III.
8. Organized three days FDP on “**Computational Techniques and Applied Thermodynamics for Mechanical Engineers**” on dated **06.02.20 to 08.02.20** at **Chaibasa Engineering College** Sponsored by TEQIP-III.
9. Organized three days webinar on “**Automation & Control-2020**” on dated **17.04.2020 to 21.04.2020** on ZOOM Sponsored by TEQIP-III.
10. Organized three days webinar on “**3-D Printing**” on dated **14.05.20 to 16.05.20** on ZOOM Sponsored by TEQIP-III.
11. Organized three days webinar on “**Numerical Methods in Mechanical Engineering**” on dated **21.05.20 to 23.05.20** on ZOOM Sponsored by TEQIP-III.

9.1.2 STUDENT ACHIEVEMENTS

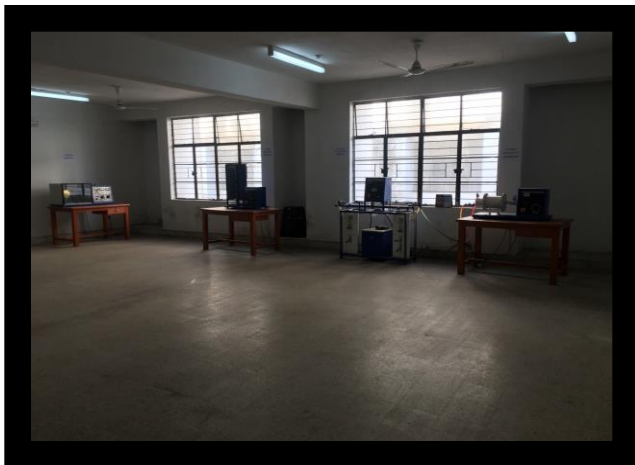
Name	Registration no.	Branch	Marks	AIR	GATE score
Kaju Sharma	ME20S16024534	ME	50.93	8114	554

9.1.3 EXTRA FACILITY PROVIDED

1. GATE classes for the 3rd and 4th year students.
2. Smart Class Room
3. Project Lab

9.1.4 DEPARTMENTAL LIBRARY

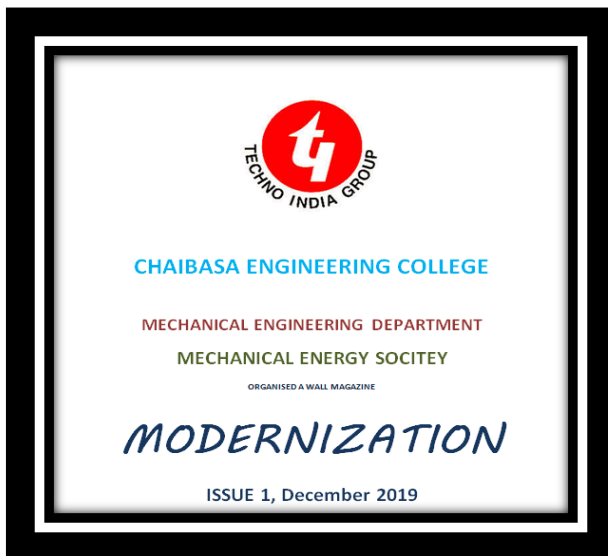
The library serves as a heart of academic activity in the Department. The Department has a wide range of books collection. It also has one copy of each B.Tech projects, seminar reports carried out in the department in recent years. All these cater to the needs of students and faculties. Most of the books are of recent edition with the facility of issuing these for a specified time period. The library is providing good environments for the long hours study. The library opens on all working days of the Institute from 10.00 AM to 6:00 PM.

9.1.5 LABORATORY FACILITY**Workshop****Fluid Mechanics Lab****Heat & Mass Transfer****Dynamics of Machine Lab**



Refrigeration & Air-conditioning Lab

9.1.6 MAGAZINE



The Department of Mechanical Engineering of Chaibasa Engineering college released the 1st issue of the departmental wall magazine on December, 2019. The Wall Magazine "MODERNIZATION" provides a unique opportunity for the students/faculty to express their thoughts on different emerging areas of Mechanical Engineering. The 2nd issue was released one month later which had an e-magazine version. The MODERNIZATION e-magazine had its reach to various departments of several institutes which gained popularity & received appreciation with time. We try to keep an eye on every innovative ideas of igniting minds so that they can be reflected through MODERNIZATION. Sincere thanks to the students & faculties who have contributed towards the previous & current issues of the magazine.

This is the 1st issue of MODERNIZATION & we sincerely thank all the students & faculties who have contributed towards MODERNIZATION till now & helped us to make our journey successful.

The Editorial Board
MODERNIZATION


9.1.7 Editorial Board of MODERNIZATION:







- Dr. Ranjit Roy, Principal (Patron)
- Mr. Debabrata Raha, Assistant Professor, ECE (Vice-Patron)
- Dr. Ashish Narayan, HOD, Associate Professor
- Dr. Sanjay Kumar, Associate Professor Editor-in-Chief
- Mr. Vikash Kr. Srivastava, Assistant Professor
- Mr. Samrat Mandal, Assistant Professor Coordinator and Convener
- Mr. Amit Kumar Ranjan, ME 4th year
- Mr. Abhijeet Kumar Bhardwaj, ME 4th year
- Mr. Kaju Sharma, ME 4th year
- Ms. Ashok Kumar, ME 3rd year
- Mr. Bikash Kumar, ME 3rd year
- Mr. Kumar Arya, ME 3rd year
- Mr. Lalita Kumari, ME 3rd year
- Mr. Manisha Kumari, ME 3rd year
- Mr. Pramod Kumar Pal, ME 2nd year

9.2 Electronics and Communication Engineering

Welcome to the Department of Electronics and Communication Engineering at Chaibasa Engineering College. The department is located in a sprawling environment with a state of art facilities and highly qualified faculty. The department works with the objective of addressing critical challenges faced by the Industry, society and the academia. Perhaps even more important is our unceasing commitment to our students, helping them to learn, grow, develop, and achieve their goals in their pursuit to excel in their professional career. The department faculty work with excellent team spirit in different technical team like RF Electronics, Communication, Signal processing, VLSI, Embedded System, Wireless Sensor Network, Electronics Measurement which leads to key research publications and consultancy in these areas. The department strives to provide a conducive environment for the students to develop analytical and practical skills and apply them to real world problems. In well-equipped laboratories supported by different high-end simulation software, creates the learning environment more suitable for hand-on experience. This facilitates the students to face new challenges relevant to upcoming technologies. The faculty of ECE department consists of well qualified and experienced teachers with noteworthy research background. The experienced faculty from the industries and reputed institutes like IIT, NIT, Jadavpur University, Calcutta University, IEST Shibpur, deliver their lectures presenting their best expertise and knowledge. To motivate the students the department organizes regular training in state of art software & hardware, arranges workshop, National & International Conferences periodically. We welcome you to the Electronics and Communication Engineering Department as undergraduate student and we hope to be part of your success.

9.2.1 Student Achievements

Name of the Participant	Name of Event and Position	Picture of the Participant
Puja Kumari 3 rd Year	Utkalback 2.0 Overall - Runner-up, Hardware – Winner. District Taekwondo Championship 2019 Winner Interuniversity Taekwondo Championship 2019 Winner Interuniversity Taekwondo Championship 2020 Winner	
Ravshan Molliz 3 rd Year	Internal Hackathon – Winner	
Fahim Ansari 3 rd Year	Internal Hackathon – Winner	
Kanak Lata 3 rd Year	Internal Hackathon – Winner	
Mukesh Kumar Mahato 3 rd Year	Internal Hackathon – Winner	

Amisha Verma 2 nd Year	Zephyr 2K19, Stand Up (Poetry) Winner	
Sushila Hansdah 2 nd Year	Zephyr 2K19, Posbak Winner	
Priyanka Sharma 4 th Year	Naykrity 2K17, Robotics (Line follower) Runner Up Naykrity 2K18, Robotics (Robo soccer & Robo hurdle) Runner Up	
Ravi Shankar Kumar 4 th Year	Naykrity 2K17, Robotics (Line follower) Runner Up	
Rituraj Pandey 4 th Year	Naykrity 2K17, Robotics (Line follower) Runner Up	
Shruti Gupta 4 th Year	Naykrity 2K18, Robotics (Robo soccer & Robo hurdle) Runner Up	

Suman Kumar 4 th Year	Navkrity 2K18, Short video Presentation (U-turn) Runner Up	
Neeraj Kumar 3 rd Year	Internal Hackathon – Winner	

9.2.2 Laboratory Facilities



9.2.3 Departmental Library

The Department of Electronics & Communication Engineering maintains a reference library with more than 200 books. The Department has a rich collection of books. This library is accessible to the faculty and students. It also has one copy of each B.Tech projects, seminar reports carried out in the department in recent years. The Staff and the students routinely visit and read the books. Most of the books are of recent edition with the facility of issuing these for a specified time period. The library serves to provide a calm and cost ambience conducive to long hours of study. The library has also WiFi facility. The library opens on all working days of the Institute from 9:00 am to 5:00pm.



9.2.4 Extra facility provided

1. Departmental Computer Lab
2. Project Lab
3. Digital Smart Classroom
4. Gate Assistance

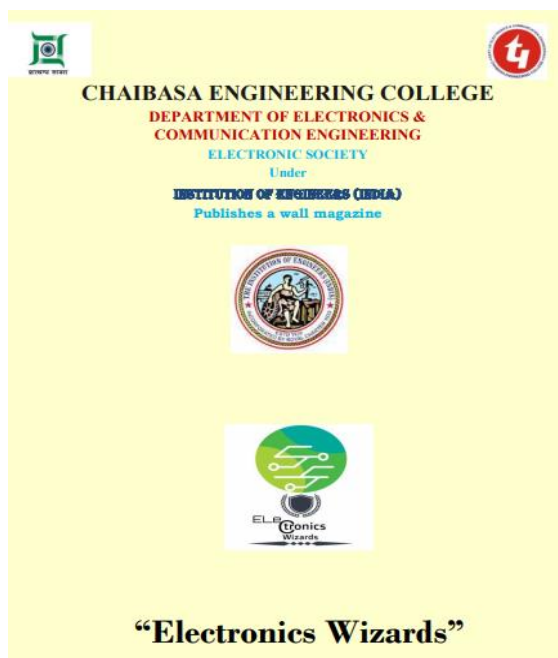
9.2.5 Some Outside World Interaction of Students:

SL. No.	NAME OF STUDENTS	BATCH	TRAINING CENTRE
1	Puja Kumari	2017-21	UTKALHACKS 2.0 RAVENSHAW UNIVERSITY, CUTTACK, ODISHA
2	Narendra Kumar	2017-21	RTBE, NIT DURGAPUR
3	Kiran Sen	2017-21	RTBE, NIT DURGAPUR
4	Nitish Kumar	2017-21	RTBE, NIT DURGAPUR
5	Ravi Shankar Kumar	2016-20	RTBE, NIT DURGAPUR
6	Deepika Oraon	2016-20	RTBE, NIT DURGAPUR
7	Priyanka Sharma	2016-20	RTBE, NIT DURGAPUR
8	Priya Kumari	2016-20	RTBE, NIT DURGAPUR
9	Kumari Vandana	2016-20	RTBE, NIT DURGAPUR
10	Mukesh Kumar Mahato	2016-20	RTBE, NIT DURGAPUR
11	Roshni Kumari	2016-20	RTBE, NIT DURGAPUR
12	Ashish Mahato	2016-20	RTBE, NIT DURGAPUR
13	Gautam Kuma4r Singh	2016-20	RTBE, NIT DURGAPUR
14	Rashmi Hembrom	2016-20	RTBE, NIT DURGAPUR
15	Neeru Kumari Tudu	2016-20	RTBE, NIT DURGAPUR
16	Manju Kumari Barda	2016-20	RTBE, NIT DURGAPUR
17	Kumar Gourav	2016-20	RTBE, NIT DURGAPUR
18	Subhashini Bharti	2016-20	RTBE, NIT DURGAPUR
19	Ranjan Kumar	2016-20	RTBE, NIT DURGAPUR
20	Aman Gupta	2017-21	INTERNSHIP AT NIT ROURKELA
21	Md Saif Khan	2017-21	INTERNSHIP AT NIT ROURKELA
22	Aditya Kumar Mishra	2017-21	INTERNSHIP AT NIT ROURKELA
23	Santosh Kumar Sah	2017-21	INTERNSHIP AT NIT ROURKELA
24	Dinesh Singh Munda	2017-21	INTERNSHIP AT NIT ROURKELA
25	Zeeshan Ahmed	2017-21	INTERNSHIP AT NIT ROURKELA
26	Shaktiman Rajwar	2017-21	NIT ROURKELA
27	Sourab Chouhan	2017-21	NIT ROURKELA
28	Shubham Sharma	2017-21	NIT ROURKELA
29	Mukesh Kumar Mahato	2017-21	NIT ROURKELA
30	Md Shahnawaz Ansari	2017-21	NIT ROURKELA
31	Kumari Shivangi Gupta	2017-21	NIT JAMSHEDPUR
32	Puja Kumari	2017-21	NIT JAMSHEDPUR
33	Bir Singh Sundi	2017-21	NIT JAMSHEDPUR

34	Md Fahim Ansari	2017-21	NIT JAMSHEDPUR
35	Narendra Kumar	2017-21	NIT JAMSHEDPUR
36	Kiran Sen	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
37	Niti Sinha	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
38	Priya Kumari	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
39	Kanak Lata	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
40	Sajid Ansari	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
41	Sahid Afridi	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
42	Rayyan Mofiz	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
43	Pawan Kumar Verma	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
44	Akash Ganga	2017-21	STC ON WIRELESS NETWORK TECHNOLOGIES"WNT-2019"NIT ROURKELA
45	Ritu Raj Pandey	2016-20	QUICKSOFTPRO
46	Ravi Shankar Kumar	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
47	Sourav Kumar	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
48	Deepika Oraon	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
49	Kumari Vandana	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
50	Priyanka Sharma	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
51	Ritu Raj Pandey	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM

52	Kumar Gourav	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
53	Md Fahim Ansari	2017-21	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
54	Akash Ganga	2017-21	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
55	Sourab Chouhan	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
56	Pawan Kumar Verma	2016-20	CENTRE OF EXCELLENCE IN MARITIME & SHIPBUILDING VISAKHAPATNAM
57	Md Fahim Ansari	2017-21	SMART INDIA HACKATHON,2019
58	Kiran Sen	2017-21	NIT WARANGAL
59	Kanak Lata	2017-21	NIT WARANGAL
60	Gautam Kumar Singh	2017-21	NIT WARANGAL
61	Roshni Kumari	2017-21	NIT WARANGAL
62	Neeraj Kumar	2017-21	NIT WARANGAL
63	Shahid Afridi	2017-21	NIT WARANGAL
64	Rayyan Mofiz	2017-21	NIT WARANGAL
65	Shruti Gupta	2017-21	NIT WARANGAL
66	Niti Sinha	2017-21	IIT HYDERABAD
67	Sushila Hansdah	2018-22	OJASS 2019, NIT JAMSHEDPUR
68	Manorama Hansdah	2018-22	OJASS 2019, NIT JAMSHEDPUR
69	Raj Kumar Rana	2018-22	OJASS 2019, NIT JAMSHEDPUR
70	Jyotsna Nag	2018-22	OJASS 2019, NIT JAMSHEDPUR
71	Laxmi Kumari	2018-22	OJASS 2019, NIT JAMSHEDPUR
72	Rishav Kumar	2018-22	OJASS 2019, NIT JAMSHEDPUR
75	Tathagata	2015-19	VOCATIONAL TRAINING AT TATA STEEL LTD.
76	Debsuman Dutta	2015-19	VOCATIONAL TRAINING AT TATA STEEL LTD.

9.2.6 E- MAGAZINE



The Department of Electronics & Communication Engineering of Chaibasa Engineering College, released the 11th issue of the departmental wall magazine on July, 2020. The Wall Magazine "ELECTRONICS WIZARDS" provides a unique opportunity for the students/faculty to express their thoughts on different emerging areas of Electronics & Communication Engineering. This is the 11th issue to be released as decided by the editorial board. The ELECTRONICS WIZARDS e-magazine had its reach to various departments of several Institutes which gained popularity & received appreciation with time. We try to keep an eye on every innovative ideas of igniting minds so that they can be reflected through. Sincere thanks to the students & faculties who have contributed towards the previous & current issues of the magazine. This is the 11th issue of "ELECTRONICS WIZARDS" & we sincerely thank all the students & faculties who have contributed towards "ELECTRONICS WIZARDS" till now & helped us to make our journey successful.

The Editorial Board
ELECTRONICS WIZARDS

EDITORIAL BOARD

- Dr. Ranjit Roy, Principal, Patron
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- Visakha, ECE, 2nd year, Student Coordinator
- Vinod, ECE, 2nd year, Student Coordinator
- Puja Kumari, ECE, 3rd year, Student Coordinator
- Rayyan Mofiz, ECE, 3rd year, Student Coordinator
- Ravi Shankar, ECE, 4th year, Student Coordinator
- Suman Kumar, ECE, 4th year, Student Coordinator

9.3 ELECTRICAL ENGINEERING

The Department of Electrical Engineering has been offering undergraduate course in Electrical Engineering since 2013. Within a very short span of time, the department has enhanced an excellent learning environment with dedicated young faculty members, technical staff, excellent laboratories and innovative teaching & learning processes. In order to perform the complex functions in modern applications of Electrical Engineering, the department has a well combination of hardware and software facilities.

The Department of Electrical Engineering got its central funding in the year 2017 from the Technical Education Quality Improvement Programme (TEQIP-III).

9.3.1 STUDENTS ACHIEVEMENTS:

GATE Qualified:

Name	Registration No.	Branch	Marks	AIR	GATE score
Mithun Kumar	EE20S56024351	EE	35	12636	370



Students Participated:

Sonam Kumari (2017-21)
Shakti Singh (2017-21)
Salini Kumari (2017-21)
Sourav (2017-21)
Ravindra Oraon (2017-21)

Mentor

Nishant Kumar (A.P, EE)

**SIH – 2019 FINALE
HARDWARE EDITION**

9.3.2 LABORATORY



Advance Power System Lab

9.4 CIVIL ENGINEERING

Civil Engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works such as residences, institutional buildings, roads, bridges, canals, dams, airports, sewerage systems, pipelines, and railways. Civil engineering is traditionally broken into a number of sub-disciplines. It is considered the second-oldest engineering discipline after military engineering, Civil Engineering has major role in the public sector from municipal corporation through to national level, and in the private sector from individual homeowners through to international companies.



9.4.1 STUDENT ACHIEVEMENT

SL. No.	Batch	Topic	Name of Students
1	2017-2021	Runner up in 4th Annual Cricket Tournament 2018	CIVIL ENGINEERING
2	2014-2018	Silver Medal in Taekwondo	PAYAL KUMARI

GATE QUALIFIED

Name	Registration No.	Branch	Marks	AIR	GATE score
Ashutosh Kumar Roy	CE20S76024050	CE	34.07	16274	363

9.4.2 FACULTY ACHEIVEMENT





1. Kumar Santosh, Kumari Rina and Kumar Mrigendra, Three Day FDP on “Modern Method of teaching learning and evaluation in engineering education” organized by NIT Warangal, 25 - 27 March 2018.
2. Kumar Santosh, One Week FDP on “Professional Development Training” organized by IIM Udaipur, 14th to 18th May 2018.
3. Kumar Santosh, Kumari Rina and Kumar Mrigendra, One Week Summer Training Program on “Active Learning” organized by IIT Gandhinagar, 28 May- 1 June 2018.
4. Kumar Mrigendra, One Week Workshop on “Low cost technology development for physical pest management” organized by IIT Delhi, 11 - 17 Oct 2018.
5. Kumar Mrigendra, Short term Course on “Concept and application of the finite element method” organized by IIT Hyderabad, feb 26th – March 3rd 2018.
6. Anand Vandana, Kumar Raman, One Week FDP on “Professional Development Training” organized by Oracle, IIT Kharagpur February, 2018.
7. Anand Vandana, Kumar Raman, One Week FDP on “Professional Development Training” organized by Oracle, IIT Gandhi Nagar January, 2019.
8. Kumar Santosh, Kumari Rina and Kumar Mrigendra, Three Day FDP on “Teaching and learning Method in outcome-based engineering education” organized by NIT Warangal and Chaibasa Engineering College, 29th – 31st March 2019.
9. Kumar Santosh, Kumari Rina and Kumar Mrigendra, Kumar Raman and Anand Vandana, One Week FDP on “AutoCad and Solidworks” organized by IIT Kharagpur, 21st – 25th Sept. 2019.
10. Kumar Santosh, Kumari Rina and Kumar Mrigendra, Kumar Raman and Anand Vandana, Three day Training on “CSI Bridge, ETaps and Sap 2000” 11th – 13th Nov. 2019.
11. Kumar Mrigendra, Short term Course on “Environmental Sustainability through Microorganism” organized by IIT Delhi, 18th – 22nd Nov 2019.
12. Anand Vandana, Kumar Raman, One Week FDP on “Professional Development Training” organized by Oracle, IIM Raipur January, 2020.
13. Anand Vandana, Kumar Raman, Three day Workshop on “Auto Cad” organized by Ramgarh Engineering College December 2019.

9.4.4 ASSOCIATION AND ACTIVITIES

SL. No.	Activities
1	Workshop On Survey Camp Using Total Station
2	Workshop On Quantitative Surveying
3	One day TEQIP -III Sponsored seminar on “Building material and Concrete mix design” at Chaibasa Engineering College
4	One day TEQIP -III Sponsored seminar on “Role of Civil Engineer for Earthquake Disaster Mitigation” in department of Civil Engineering at Chaibasa Engineering College

5	One day TEQIP -III Sponsored seminar on “Geotechnical Engineering” at Chaibasa Engineering College
6	One day TEQIP -III Sponsored seminar on “Recent Development in Water Resources Engineering” at Chaibasa Engineering College
7	Two days faculty development program on "Advances in Civil Engineering" Resource persons from NIT WARANGAL on dated 13th & 14th February 2020
8	IEI Chapter in our civil engineering department.
9	Three day Webinar on “Steel Design” by Dr. Sanjay Kumar, NIT Jamshedpur

9.4.3 LABORATORY

Laboratory name	Semester	Configuration	
CONCRETE TECHNOLOGY LAB	3 rd , 4 th , 5 th , 6 th Sem.	Well functioning Equipment	
GEO-TECHNICAL ENGINEERING LAB	3 rd , 4 th , 5 th , 6 th Sem.	Well functioning Equipment	
TRANSPORTATION ENGINEERING LAB	5 th , 6 th Sem.	Well functioning Equipment	
ENVIRONMENTAL ENGINEERING LAB	3 rd , 5 th , 6 th Sem.	Well functioning Equipment	

STRUCTURAL ANALYSIS LAB	4 th , 5 th Sem.	Well functioning Equipment	
SURVEY LAB	3 rd , 4 th Sem.	Well functioning Equipment	
ENGINEERING GEOLOGY LAB	3 rd , 4 th Sem.	Well functioning Equipment	
COMPUTER LAB	All sem.	Different types Software for Civil Engineering	

9.4.4 DEPARTMENTAL LIBRARY

The department has set up its own library keeping in mind the necessities of the students and teaching responsibilities of the faculty. It has a good collection of technological books as well as of core subjects in the field of civil engineering. The library has an organized reading space to provide reading facility to the students and teachers. Issuances of books are also provided and are maintained with proper records.

9.5 COMPUTER SCIENCE ENGINEERING

Computer Science & Engineering is a dynamic and exciting field. Department of Computer Science & Engineering was established in the year 2013, enriched with strong resource persons and state-of-the-art laboratories. The Department has a comprehensive curriculum on topics related to all aspects of Computer Hardware and Software with an emphasis on practical learning. The course structure is up-to-date and includes courses on nascent topics to equip our students with the latest developments in Computer Science and Engineering.

While steps are taken to clear the fundamental aspects of Computer Science, in advance years the students are endorsed with latest technologies like cloud computing, mobile computing, Big Data etc. Feedback from corporate and alumni help us to cater to the changing needs. Students and Staffs, both are enabled with continuous learning environment through knowledge sharing.

9.5.1 ACHIEVEMENTS HIGHLIGHTS

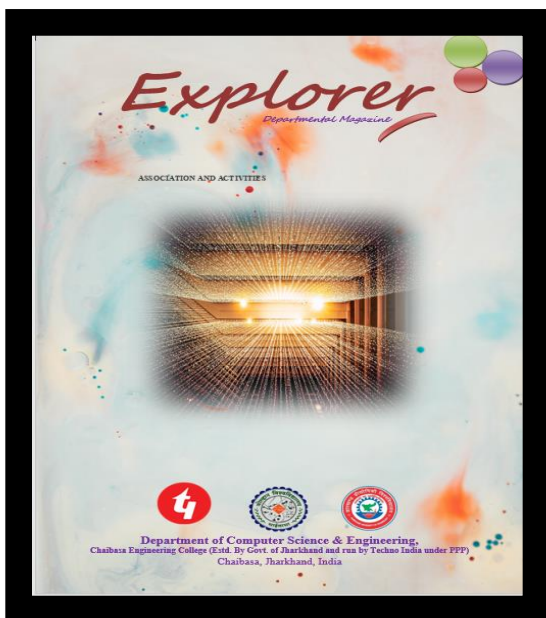
- 1) Students from CSE batch-2013-17 as well as first pass out batch of Chaibasa Engineering College received Gold Medal from University.
- 2) About 90% placements in first pass out batch.
- 3) Average graduation rate 94%.
- 4) Our placed Students are now many reputed MNCs like TCS, CTS, Infosys, IBM, ARC, Amazon, Microsoft, Wipro etc.
- 5) Student Project got selected in Hackathon.
- 6) Student project from 2014-18 batch is now used by Govt. of Jharkhand.
- 7) Student Project has been selected by Vishwakarma Project in AICTE.
- 8) Project by 12 Students of our college got selected in ATAL (AICTE Training and Learning) Program in IIT Bhilai.
- 9) Students received first runner up position TDCS-2019, organized by IEEE India Council and IEEE Section.
- 10) One of the Students from Batch 2017-21, had selected for direct interaction with Lore Beer, CIO of JP Morgan and he is getting awards from IIT Bombay

9.5.2 FACULTY ACHIEVEMENTS

1. Faculty Achievement (year wise) Karmakar Subashis, Roy Chowdhury Tathagata, 4 Week FDP on “Use of ICT in Education for Online and Blended Learning” organized by IIT Bombay, May 2016.
2. Roy Chowdhury Tathagata, 1 week training on “Java Foundation” organized by Oracle Academy, September,2016.
3. Jana Bappaditya ,Karmakar Subashis, Roy Chowdhury Tathagata, Bhadra Beas,2 Week FDP on “VLSI and Integrated Circuit” organized by IIT Kharagpur ,Febuary,2017.
4. Jana Bappaditya ,Karmakar Subashis, Roy Chowdhury Tathagata, Bhadra Beas, Gouda Kumar Sunil ,2day workshop on “NBA accreditations” by NIT Wrangle ,March,2018
5. Karmakar Subashis, Roy Chowdhury Tathagata, Bhadra Beas, 1 Week FDP on “Hands on and Active Learning through basic requirements” organized by IIT Gandhinagar, May,2018
6. Karmakar Subashis, Roy Chowdhury Tathagata ,1 week training on “Java Foundation & Java Programming ” organized by Oracle Academy, September,2018
7. Jana Bappaditya , One week Workshop on “ Medical Imaging” Oct,2014 of CSE Dept, IIT Kharagpur
8. Jana Bappaditya, One day Workshop on “Queuing theory & Optimization” ,March 2015 , IIT Bhubaneswar

9. Jana Bappaditya, One week Workshop on “2nd IEEE workshop on Advanced Matlab Applications april,2015 ,IIT Guwahati
10. Jana Bappaditya , Workshop on” Technical Content writing using Latex” ,Calcutta Business School by Computer Society of India. Kolkata Chapter, May 2016
11. Jana Bappaditya , One week Workshop on “Data Analysis for Research & Publication” , IIT Roorkee, June , 2016
12. Jana Bappaditya , One week Workshop on” Practical Perspective Towards Big Data in Cloud Computing” ,(TEQUIP-II) , Jadavpur University, Kolkata July 11th - 16th,2016
13. Jana Bappaditya , Two week Workshop on “Microcontrollers & Embedded System,Dec-2014 ,IIT Kharagpur
14. Jana Bappaditya , Two week GIAN Course on “Optimization For Innovation in Research and Practice at IIT Kgaragpur, MHRD, June 2017
15. Jana Bappaditya , “Two week ISTE STTP on CMOS, Mixed Signal & Radio Frequency VLSI Design”(Organized by IIT KGP),Feb,2017
16. Jana Bappaditya , One week “QIP-AICTE Sponsored Short-Term Course on Advanced Topics in Cryptography (June 27 – July 03,2017), IIT Kharagpur
17. Jana Bappaditya, One week Workshop on” Modern Cryptography” , September,IIT KGP,2018
18. Jana Bappaditya Oneweek faculty development program at IIM, Kashipur, June 2018
19. Gouda Sunil, A three day Workshop on faculty development program on “Modern Method of Teaching, Learning and Evaluation in Engineering Education”.
20. Gouda Sunil, A seven-day Workshop on faculty induction program at IIT Kharagpur.
21. Gouda Sunil, A three-day Workshop on Faculty Development Program for Student Induction Program for AICTE approved institutions at BIT Sindri.

9.5.3 MAGZINE



Explore is a bimonthly e-magazine, published by Department of Computer Science, Chaibasa Engineering College. It gives us great pleasure to bring you the Explore : Volume-3 Issue-1 It is a platform to encourage students and faculties to inculcate the roots of self-motivation, self-confidence and the thirst to succeed in life. I thank all the students for their wonderful response and enthusiastic participation without whom this would not have been possible. Explore is a forum to represent students' knowledge as articles on recent trends in engineering, science, Current affairs; Puzzles, poem, story, biography, art and delivers department activities like organized programmes and attended programmes for/by the students, faculty members in various domains Last but not the least I thank my E Magazine team without whom this would be dream only. I respect their efforts and really proud of them. I wish the readers a delightful reading.

I congratulate to the magazine committee & wish all the best for publishing this annual magazine.

9.6 BASIC SCIENCE & HUMANITIES

Basic Science and Humanities Department of Chaibasa Engineering College was formed in 2013. Department has been recognized all over the India for its excellence. The department has consistently produced quality professionals in the field of Physics, Chemistry, Mathematics, English and Management. The Department has at present 6 faculty members. The Department also participates in teaching Engineering Physics, Chemistry, Mathematics, English upto B.Tech. students of all the disciplines namely- Civil Engineering, Computer Science and Engineering, Electrical Engineering, Electronics and Communication Engineering and Mechanical Engineering of the Institute.

9.6.1 ACHEIVEMENTS HIGHLIGHTS

Ongoing Research Project :

1. A Seed grant project is granted by Indian Institute of Technology, Gandhinagar to the Department of 'Physics by Dr. Suresh kumar' under Basic Science & Humanities. The Title of the Project is "Preparation & characterization of Cu doped CdZnS thin films by chemical bath deposition method".

Research Paper Publications:

1. Suresh kumar, k.p. tiwary, "ZnCdS thin film chalcogenide by chemical bath deposition method", Nano Trends-A Journal of Nano Technology & Its Applications, vol. 22, Issue 1 (2020), Page 19-27.
2. K.P.Tiwary, F.Ali, R.K. Mishra, S. Kumar, K. Sharma, "Study of structural, morphological and optical properties of Cu and Ni doped CdS Nanoparticles prepared by Microwave Assisted solvo Thermal method" , Digest Journal of Nanomaterials and Biostructures, Vol. 14, No. 2 (2019), p. 305 – 313.
3. Santosh Kumar, Dinbandhu Mandal, "Generation of SH-type waves due to shearing stress discontinuity in an anisotropic layer overlying an initially stressed elastic half-space, Mathematics and Mechanics of Complex Systems, vol.6, Issue 3 (2018), p. 201-212.
4. Pasupati Paul, Santimoy Kundu, Dinbandhu Mandal, "Study of Rayleigh type surface wave in the initial stressed irregular bottom of ocean due to point source", Waves in Random and Complex Media, vol.28, Issue 1 (2018), p.76-95.
5. S Kumar, D Mandal, "Effect of Body Forces on the Propagation of SH-Type Waves in a Semi-infinite Visco-elastic Medium", International Journal of Applied and Computational Mathematics, vol. 4, Issue 1 (2018), p. 45.
6. Pasupati Paul, Santimoy Kundu, Dinbandhu Mandal, "Surface Wave Propagation in Inhomogeneous Liquid Layer over a Heterogeneous Anisotropic Elastic Half Space, Applications of Fluid Dynamics, (2018) p. 631-642.

9.6.2 Extra facility provided

Basic Science and Humanities department provided "Yoga and Taekwondo" for newly admitted students on every year.

9.6.3 Laboratory facility

There are Three well equipped Laboratories (Physics, Chemistry and Language) and facilities which are used by undergraduates B.Tech 1st year students. Some of the laboratories are provided with Internet facility and some of the laboratories have air conditioned.

List of Laboratory course conducted

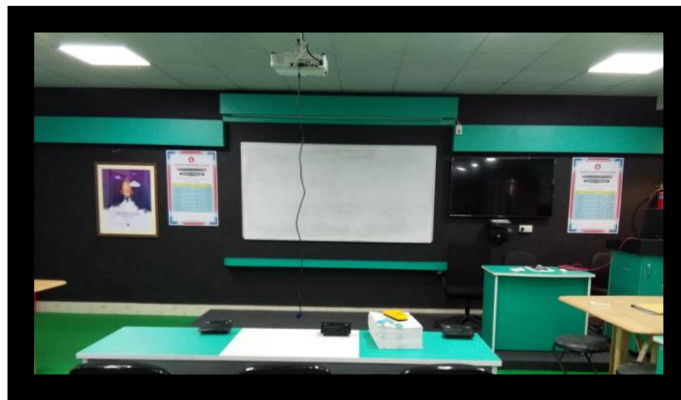
S.N.	Course year-Sem	Branch	Subject Name
1.	B.Tech-1st	All Branch	Physics Lab.
2.	B.Tech-1st	All Branch	Chemistry Lab.
3.	B.Tech-3rd	All Branch	English Lab.



CHEMISTRY LABORATORY



PHYSICS LABORATORY



LANGUAGE LABORATORY

CHAPTER – 10 EXAM RESULTS ANALYSIS

Percentage of number of students transitioned from the first year to the second year (without backlog) in undergraduate programmers out of enrolled students in respective category SC (50%), ST (50%), Female (55%).

Department	Total Students Appeared for exam	Total Students transitioned from the first year to the second year (without backlog)	Total SC students	Total Students transitioned from the first year to the second year (without backlog)	Total ST students	Total Students transitioned from the first year to the second year (without backlog)	Total OBC students	Total Students transitioned from the first year to the second year (without backlog)	Female	Total Students transitioned from the first year to the second year (without backlog)
CE	21	NA	NA	NA	NA	NA	NA	NA	NA	NA
CSE	23	NA	NA	NA	NA	NA	NA	NA	NA	NA
ECE	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
EE	17	NA	NA	NA	NA	NA	NA	NA	NA	NA
ME	20	NA	NA	NA	NA	NA	NA	NA	NA	NA

Total SC Students	Total Students transitioned from the first year to the second year (without backlog)	Percentage	Total ST students	Total Students transitioned from the first year to the second year (without backlog)	Percentage	Total Female Students	Total Students transitioned from the first year to the second year (without backlog)	Percentage
NA	NA	NA	NA	NA	NA	NA	NA	NA

**** RESULT AWAITED**

Figure. 13 percentage of number of students transitioned from the first year to the second year

IMPLEMENTATION OF GATE

PERCENTAGE OF UG STUDENTS ENROLLED FOR GATE (2015-2019)

Department	Total number of available students in final year	Number of students enrolled for GATE	Number of students qualified GATE	Percentage of UG students enrolled for GATE Department wise	Percentage of UG students enrolled for GATE [Total Number of students enrolled for GATE/ Total number of available students in final year]
Computer Science and Engineering	50	45	2	90%	87.01%
Electronics & Communication Engineering	45	37	0	82.22%	
Electrical Engineering	47	41	1	87.23%	
Mechanical Engineering	45	38	1	84.44%	
Civil Engineering	44	40	1	90.91%	

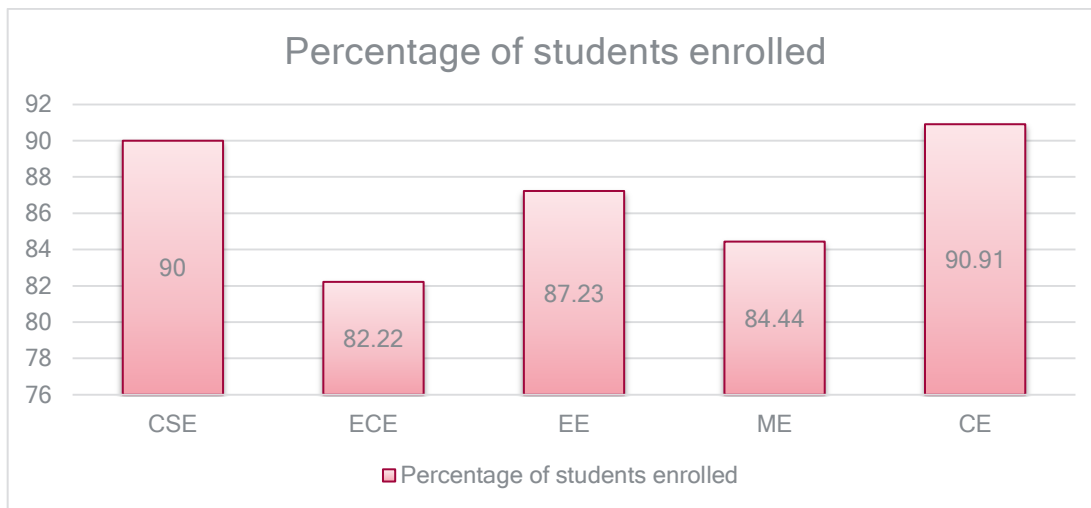


Figure: 14 Percentage of UG students enrolled for GATE

GATE QUALIFIED STUDENTS DETAILS								
Name	Registration No.	Branch	Marks	AIR	GATE Score	qualifying marks		
						GEN/EWS	OB C	SC/ST/PWD
Ashotosh Kumar Roy	CE20S76024050	CE	34.07	16274	363	32.9	29.6	21.9
Kaju Sharma	ME20S16024534	ME	50.93	8114	554	34	30.6	22.6
Kumar Abhishek	CS20S66024163	CS	31	10915	379	28.5	25.6	19
Madhumita Kumari	CS20S66024317	CS	31.67	10281	387	28.5	25.6	19
Mithun Kumar	EE20S56024351	EE	35	12636	370	33.4	30	22.2

CHAPTER -11 TRAINING PROGRAMME & WORKSHOP

11.1 Training & Workshop Programme for Students:

SL. No.	Name of the Program	Program Location	Duration	Name of the Students
1	Recent Trends in wireless Communication Engineering	IEEE	5 days	20
2	Industry Readiness	IIT Gandhinagar	5 days	30
3	Employability Skill Training Universal Education (Phase-II)	Chaibasa Engineering College	3 days	40
4	Two Days workshop on Recent Trends in wireless Communication Engineering	Chaibasa Engineering College	4 days	50
5	Seminar on Industry Readiness	Universal Education pvt ltd	5 days	40
6	ATAL Workshop	IIT Bhilai	5 days	20
7	Student Exchange Program	NIT Warangal	5 days	20
8	Five days Training Program (RTBE 2020)	NIT Durgapur	5 days	40
9	Workshop on recent trends in Biomedical Engineering (RTBE 2020)	NIT Durgapur	3 days	20
10	Internship in Advanced Networking Laboratory	NIT Rourkela	5 days	10
11	TEQIP-III training program for students	CEMS- Vizag	5 days	7
12	DSP implementation on Embedded system	Chaibasa Engineering College	5 days	40
13	Geotechnical engineering	Chaibasa Engineering College	5 days	40
14	Application of fluid mechanics and fluid mixing	Chaibasa Engineering College	1 day	30
15	Future electricity-smart grid	Chaibasa Engineering College	1 day	30
16	IDTR Electrical 17th dec,2019	Indo Danish Tool Room Jamshedpur	1 day	120
17	Seminar On 'Automaion And Robotics'	Chaibasa Engineering College	1 day	40
18	One Day Seminar On 'Advances In Wireless Communication'	Chaibasa Engineering College	1 days	40
19	One Day Seminar On ' Automation And Robotics -2020'	Chaibasa Engineering College	1 day	30
20	One Day Workshop On 'Campus To Corporate Skill Building	Chaibasa Engineering College	1 day	30
21	TEQIP -III Sponsored Summer Integrated	NIT Warangal	2 days	5

	Internship			
22	Students Induction Program 2019	Chaibasa Engineering College	1 day	30
23	Summer Integrated Internship Program.	NIT Warangal	7 days	5
24	TEQIP -III Sponsored Summer Integrated Internship	Dayananda Sagar College of Engineering, Bangalore	1 day	5
25	The Grand Finale of Smart India Hackathon	NIT Warangal	5 days	5
26	One Day Internship Day Event, Aicte	AICTE, New Delhi	1 days	3
27	Student Excellence And Learning Program	Chaibasa Engineering College	5 days	50
28	One Day Co-Ordinator Workshop On E-SIM, IIT Bombay	IIT Bombay	1 days	40
29	Summer Integrated Internship Program At NIT Warangal	NIT Warangal	3 days	30
30	Technical And Soft Skill Training	Chaibasa Engineering College	1 day	20
31	Summer Internship At IIT Hyderabad	IIT Hyderabad	1 day	20
32	Employability Skill Training Universal Education Phase-I	Chaibasa Engineering College	1 day	20
33	Productivity Enhancement Program, Vykati Vikas Kendra	Chaibasa Engineering College	5 days	40
34	Seminar on "Internet of Things"	Chaibasa Engineering College	5 days	40
35	Seminar on "Application of Fluid Mechanics & fluid mixing-2019"	Smart Classroom.ME Dept.	1 day	30
36	Seminar on "Internet of Things: Recent trend"	Chaibasa Engineering College	1 day	40
37	Workshop program on "Campus to Corporate Skill Building"	Smart Classroom,CE Dept.	3 days	30
38	Seminar on "Building Materials and Concrete Mix Design"	Smart Classroom,CE Dept.	5 days	30
39	Special Classes on "Microprocessor & micro Controller"	Chaibasa Engineering College	5 days	60
40	One Day TEQIP III Sponsored Seminar On Introduction To Machine Learning In Computer Science Engeineerring Department	C. B Seminar Hall, Cse, Chaibasa Engineering College	1 day	30
41	One Day Workshop On Esim Conducted By IIT BOMBAY	Chaibasa Engineering College	1 day	20

CHAIBASA ENGINEERING COLLEGE

42	5 Days Faculty Development Program On Auto-cad And Solid-works	Chaibasa Engineering College	5 day	40
43	5 Day Art Of Living Selp Program By Vyakti Vikash Kendra India	Chaibasa Engineering College	5 days	40
44	TEQIP-III Sponsored Summer Integrated Internship	NIT Warangal	2 days	30
45	Two Month Internship At Quicksoftpro IT Solutions Pvt Ltd Mahape	Quicksoftpro IT Solutions Pvt Ltd Mahape	30 day	10
46	One Day Workshop Recent Development On Welding Process 2019	Chaibasa Engineering College	1 days	20
47	One Day Workshop On Python Ny IIT BOMBAY	Chaibasa Engineering College	1 days	20
48	One Day TEQIP-IIIsponsored Seminar On "Renewable Energy Application" In Mechanical Engineering	Chaibasa Engineering College	1 days	30
49	One Day Interactive Open Up Session With Students	Chaibasa Engineering College	1 day	20
50	One Day TEQIP-III Sponsored Seminar On "Renewable Energy Resources- A Future Direction Of Power System" In Elctrical Engineering	Chaibasa Engineering College	1 day	50
51	IEEE TDCS-2019	MIT (World Peace Universities) Pune	5 days	30
52	One Day TEQIP-III Sponsored Seminar On "Application Of Electronics In Industry"	Chaibasa Engineering College	1 day	40
53	15 Day Summer Integrated Internship Program	NIT Warangal	15 days	20
54	Industry Visit to Gujrat	Gujrat	5 days	10
55	06 days Training program for Students at CEMS Vizag	CEMS Vizag	6 days	30
56	5 Days FDP on "OBE"	Chaibasa Engineering College	5 days	20
57	Industry Visit to New Delhi	TSOHA International	1 day	5
58	Indo Danish Tool Room Visit	Jamshedpur	5 days	120
59	One Day Seminar on "DSP Implementation on Embedded System"	Chaibasa Engineering College	1 day	40
60	One Day Seminar on " Future Electricity-The Pathway of Smart Grid"	Chaibasa Engineering College	1 day	40
61	Short Term Course on "Environmental Sustainability through Microorganisms"	IIT Delhi	5 days	30

11.2 Training Programme for Faculties:

SL. No.	Name of the Program	Name of the Organisation	Duration	Number of the Faculty attended
1	PDT AT IIM Kashipur	IIM Kashipur	5 days	2
2	PDT AT IIM Raipur	IIM Raipur	5 days	1
3	Recent Trends in wireless Communication Engineering	IEEE	3 days	5
4	FDP on industry 4.0 and Research Methodology	Chaibasa Engineering College	3 days	20
5	Two Days workshop on Recent Trends in wireless Communication Engineering	Chaibasa Engineering College	2 days	20
6	ATAL Workshop	IIT Bhilai	4 days	5
7	PDT at IIM Kashipur	IIM Kashipur	5 days	2
8	PDT at IIM Shilong	IIM Shilong	5 days	2
9	PDT at IIM Indore	IIM Indore	5 days	2
10	PDT at IIM Kozhikode	IIM Kozhikode	5 days	2
11	PDT at IIM Raipur	IIM Raipur	5 days	2
12	Short term courseon "Sustainable Urban Transport:Design of Road Infrastructure and Facilities"	IIT Kharagpur	3 days	2
13	PDT at IIM Udaipur	IIM Udaipur	5 days	2
14	PDT at IIM Bodhgaya	IIM Bodhgaya	5 days	2
15	FDP on "Internet of things"	IIT Bombay	5 days	1
16	PDT IIM Raipur_18th-22nd nov.2019	IIM Raipur	5 days	1
17	DSP implementation on Embedded system	Chaibasa Engineering College	1 day	10
18	Geotechnical engineering	Chaibasa Engineering College	1 day	10
19	Application of fluid mechanics and fluid mixing	Chaibasa Engineering College	1 day	15
20	Future electricity-smart grid	Chaibasa Engineering College	1 day	15
21	2 days LIS IIT Roorkee	IIT Roorkee	2 days	2
22	One Day Seminar On 'Advances In Wireless Communication'	Chaibasa Engineering College	1 day	8
23	One Day Seminar On 'Automation And Robotics -2020'	Chaibasa Engineering College	1 day	8
24	Quality Improvement Program	IIT Kharagpur	2 days	4
25	One Day ARIIA 2020 orientation Workshop	Guru Nanak Institute Of Technology.	1 day	1
26	TEQIP -III Sponsored Course on Recent Trends in Microgrid	NIT Jamshedpur	7days	1
27	One Day Co-Ordinator Workshop On E-SIM AT IIT Bombay	IIT Bombay	1 day	8
28	Professional Development Training	IIM Shillong	5 days	2
29	Advance Pedagogy Workshop	IIT Gandhinagar	5 days	1
30	Professional Development Training	IIM Raipur	5 days	2
31	Advance Pedagogy Workshop	IIT Gandhinagar	5 days	4
32	Professional Development Training	IIM Kashipur	5 days	3
33	Teaching and Learning Method in	Chaibasa Engineering	3 days	2

	outcome based Engineering Education	College		
34	Seminar on "Internet of Things"	Chaibasa Engineering College	1 day	8
35	Winter Training Programme on "Leadership, RTI, Office Procedures for staff"	IIT Gandhinagar	1 day	1
36	Seminar on "Application of Fluid Mechanics & fluid mixing-2019"	Chaibasa Engineering College	1 day	8
37	Professional Development programme at IIM Jammu	IIT Jammu	5 days	2
38	Professional Development Programme at IIT Kashipur	IIM Kashipur	5 days	2
39	Seminar on "Building Materials and Concrete Mix Design"	Chaibasa Engineering College	1 day	4
40	Industry Visit to Mumbai By Sudipta Chakrabarty and Arvind Pandey	Mumbai	1 day	2
41	Workshop at IIT Hyderabad by Mr. Nishant Kumar	Hyderabad	3 days	1
42	One Day TEQIP III Sponsored Seminar On Introduction To Machine Learning In Computer Science Engineering Department	C. B Seminar Hall, Cse, Chaibasa Engineering College	1 day	20
43	One Day Workshop On E-sim Conducted By IIT Bombay	Chaibasa Engineering College	1 day	20
44	5 Days Faculty Development Program On Auto-cad And Solidworks	Chaibasa Engineering College	5 days	10
45	5 Day Art Of Living Selp Program By Vyakti Vikash Kendra India	Chaibasa Engineering College	5 days	20
46	One Day Workshop Recent Development On Welding Process 2019	Chaibasa Engineering College	1 day	8
47	One Day Workshop On Python By IIT Bombay	Chaibasa Engineering College	1 day	10
48	One Day TEQIP-III Sponsored Seminar On "Renewable Energy Application" In Mechanical Engineering	Chaibasa Engineering College	1 day	14
49	One Day TEQIP-III Sponsored Seminar On "Renewable Energy Resources- A Future Direction Of Power System" In Electrical Engineering	Chaibasa Engineering College	1 day	15
50	5 Day TEQIP III Sponsored FDP On "Outcome Based Education"	Chaibasa Engineering College	5 days	20
51	IEEE TDCS-2019	MIT (World Peace Universities) Pune	2 days	5
52	One Day TEQIP-III Sponsored Seminar On "Application Of Electronics In Industry"	Chaibasa Engineering College	1 day	5
53	Indian Science Festival at IISER Pune	IISER Pune	2 days	4
54	5 Days FDP on "OBE"	Chaibasa Engineering College	5 days	2
55	Indo Danish Tool Room Visit	Jamshedpur	5 days	8

56	One Day Seminar on "DSP Implementation on Embedded System"	Chaibasa Engineering College	1 day	10
57	One Day Seminar on " Future Electricity-The Pathway of Smart Grid"	Chaibasa Engineering College	1 day	10
58	Short Term Course on "Environmental Sustainability through Microorganisms"	IIT Delhi	5 days	5
59	One day Workshop on R	Chaibasa Engineering college	1 day	20
60	One day workshop on Arduino by IIT Bombay	Chaibasa Engineering college	1 day	10

CHAPTER – 12 CAMPUS DATA & INTERNSHIP

12.1 PLACEMENT BRIEF DATA

SL. No.	Department	No. of Students Placed Through On-Campus Drive	No. of Students Placed Through Group-Campus Drive	No. of Students Placed Through Off-Campus Drive	Total No. of Students Placed	Total No. of Companies Visited (On-Campus)
1	ECE	17	4	0	19	5
2	CSE	17	5	3	19	4
3	EE	16	7	0	19	5
4	ME	22	5	0	23	5
5	CE	5	0	0	5	3
Grand Total=85						
Total No. of Students=244						
Placement Percentage=34.84%						

12.2 STUDENT PLACED AT

Sl. No.	Name of the Placed Students	Dept.	Company Placed
1	ABHISHEK SURIN	ECE	HIDUJA GLOBAL SOLUTIONS
2	ANAND KUMAR	ECE	BRIDGE GROUP SOLUTION
			HIDUJA GLOBAL SOLUTIONS
3	ASHISH MAHATO	ECE	BRIDGE GROUP SOLUTION
4	BISHAL BARIK	ECE	CHEGG INDIA PVT. LTD.
5	DHANRAJ SINGH BHOGTA	ECE	HIDUJA GLOBAL SOLUTIONS
6	GOUTAM KUMAR SINGH	ECE	BRIDGE GROUP SOLUTION
			HIDUJA GLOBAL SOLUTIONS
			CHEGG INDIA PVT. LTD.
7	KUMAR GOURAV	ECE	COLLABERA

8	KUMARI VANDANA	ECE	GRIFEO TECHNOLOGY
9	MANISHA KUMARI	ECE	CHEGG INDIA PVT. LTD.
10	MUKESH KUMAR YADAV	ECE	TATA CLASS EDGE WEST SINGHBHUM
11	PRITY SINGH	ECE	TATA CLASS EDGE WEST SINGHBHUM
12	PRIYA KUMARI GUPTA	ECE	GRIFEO TECHNOLOGY
			CHEGG INDIA PVT. LTD.
13	PRIYANKA SHARMA	ECE	BRIDGE GROUP SOLUTION
14	RAVI SHANKAR KUMAR	ECE	CHEGG INDIA PVT. LTD.
15	REKHA KUMARI	ECE	GRIFEO TECHNOLOGY
16	RITU RAJ PANDEY	ECE	GRIFEO TECHNOLOGY
			CHEGG INDIA PVT. LTD.
17	SHRUTI GUPTA	ECE	HIDUJA GLOBAL SOLUTIONS
			CHEGG INDIA PVT. LTD.
			GRIFEO TECHNOLOGY
			COLLABERA.
18	SHUBHASINI BHARTI	ECE	COLLABERA
19	SURAJ KUMAR CHOUDHARY	ECE	ZINDAL STEEL AND POWER LTD. ANGUL,ORISSA
20	AKASH KUMAR SAW	CSE	HIDUJA GLOBAL SOLUTIONS
			CHEGG INDIA PVT. LTD.
21	ASHA RABIDAS	CSE	CHEGG INDIA PVT. LTD.

22	BARKHA RANI	CSE	CHEGG INDIA PVT. LTD.
23	CHANDNI KUMARI	CSE	CHEGG INDIA PVT. LTD.
24	KUMARI SOBHA	CSE	CHEGG INDIA PVT. LTD.
25	MADHUMITA KUMARI	CSE	TCS
			GRIFEO TECHNOLOGY
26	MAMTA KUMARI	CSE	GRIFEO TECHNOLOGY
			CHEGG INDIA PVT. LTD.
27	MANGALDEEP SINGH	CSE	TCS
			CHEGG INDIA PVT. LTD.
28	MD AAQUIB NAWAZ	CSE	COLLABERA
			CHEGG INDIA PVT. LTD.
			HIDUJA GLOBAL SOLUTIONS
29	NISHANT KUMAR	CSE	CHEGG INDIA PVT. LTD.
30	PINKI KUMARI	CSE	GRIFEO TECHNOLOGY
31	PRAGYA SNEHIL	CSE	CHEGG INDIA PVT. LTD.
32	RITESH RANJAN MALLICK	CSE	GRIFEO TECHNOLOGY
			HIDUJA GLOBAL SOLUTIONS
33	RIYA KUMARI	CSE	CTS
			GRIFEO TECHNOLOGY

			CHEGG INDIA PVT. LTD.
34	SHASHI RANJAN	CSE	CHEGG INDIA PVT. LTD.
35	SHUBHAM KUMAR TIWARI	CSE	CHEGG INDIA PVT. LTD.
36	SMRITI KUMARI	CSE	CHEGG INDIA PVT. LTD.
37	SONY KUMARI	CSE	CHEGG INDIA PVT. LTD.
38	SUMAN KUMAR	CSE	COLLABERA
39	AKSHAY KUMAR YADAV	EE	CHEGG INDIA PVT. LTD.
40	ANAMIKA KUMARI	EE	CHEGG INDIA PVT. LTD.
41	ANIKET KUMAR	EE	CHEGG INDIA PVT. LTD.
42	CHANDRA DEEP	EE	GRIFEO TECHNOLOGY
			HIDUJA GLOBAL SOLUTIONS
43	DIPTILATA GUPTA	EE	CHEGG INDIA PVT. LTD.
44	DIWAKAR NAYAK	EE	CHEGG INDIA PVT. LTD.
45	HEMA MAHATO	EE	GRIFEO TECHNOLOGY
			HIDUJA GLOBAL SOLUTIONS
			CHEGG INDIA PVT. LTD.
46	JYOTSNA RICHARD	EE	GRIFEO TECHNOLOGY
47	KANHAI SHARMA	EE	GRIFEO TECHNOLOGY
			HIDUJA GLOBAL SOLUTIONS

			CHEGG INDIA PVT. LTD.
48	KAUSHAL KUMAR	EE	CHEGG INDIA PVT. LTD.
49	MITHUN KUMHAR	EE	CHEGG INDIA PVT. LTD.
50	NEERAJ KUMAR	EE	CHEGG INDIA PVT. LTD.
51	PARITOSH KUMAR	EE	BYJU'S (THINK & LEARN PVT. LTD.)
			COLLABERA
52	PREETAM RANI	EE	GRIFEO TECHNOLOGY
53	PRITY KUMARI	EE	CHEGG INDIA PVT. LTD.
54	RAJESH KUMAR DAN	EE	HIDUJA GLOBAL SOLUTIONS
			CHEGG INDIA PVT. LTD.
55	SANJU KUMARI	EE	GRIFEO TECHNOLOGY
56	SAURAV KUMAR	EE	HIDUJA GLOBAL SOLUTIONS
			CHEGG INDIA PVT. LTD.
57	SIDHARTH THAKUR	EE	GRIFEO TECHNOLOGY
			CHEGG INDIA PVT. LTD.
58	ABHIJEET KUMAR BHARDWAJ	ME	GRIFEO TECHNOLOGY
			BRIDGE GROUP SOLUTION
			NANDA GLASS INDUSTRIES
			CHEGG INDIA PVT. LTD.
59	ABHISHEK KUMAR	ME	CHEGG INDIA PVT. LTD.

60	AMIT KUMAR	ME	GRIFEO TECHNOLOGY
			NANDA GLASS INDUSTRIES
			CHEGG INDIA PVT. LTD.
61	AMIT KUMAR RANJAN	ME	GRIFEO TECHNOLOGY
			NANDA GLASS INDUSTRIES
			CHEGG INDIA PVT. LTD.
62	ANIRUDH KUMAR YADAV	ME	CHEGG INDIA PVT. LTD.
63	ANKIT PRASAD	ME	UVIMAC ENGINEERING SOLUTIONS PVT. LTD.
64	DHARMESH KUMAR	ME	GRIFEO TECHNOLOGY
			UVIMAC ENGINEERING SOLUTIONS PVT. LTD.
			HIDUJA GLOBAL SOLUTIONS
65	HEMANT KUMAR MAHTO	ME	NANDA GLASS INDUSTRIES
			WIOSKA MOLDINGS PVT. LTD
66	KAJU SHARMA	ME	NANDA GLASS INDUSTRIES
			CHEGG INDIA PVT. LTD.
67	KHALID AKHTER ANSARI	ME	WIOSKA MOLDINGS PVT. LTD
68	KUMAR ABHISHEK RANJAN	ME	BRIDGE GROUP SOLUTION
69	LALITA HEMBROM	ME	GRIFEO TECHNOLOGY
70	MASIUR RAHMAN	ME	WIOSKA MOLDINGS PVT. LTD
71	MD. KASHIF REZA	ME	NANDA GLASS INDUSTRIES
			WIOSKA MOLDINGS PVT. LTD

72	MD. RIZWAN AKRAM	ME	CHEGG INDIA PVT. LTD.
73	RAJAN KUMAR SAW	ME	WIOSKA MOLDINGS PVT. LTD
			NANDA GLASS INDUSTRIES
			CHEGG INDIA PVT. LTD.
74	SANCHIT KUMAR SINGH	ME	HIDUJA GLOBAL SOLUTIONS
75	SANJAY KUMAR GIRI	ME	UVIMAC ENGINEERING SOLUTIONS PVT. LTD.
76	SANKET KUMAR	ME	BRIDGE GROUP SOLUTION
			UVIMAC ENGINEERING SOLUTIONS PVT. LTD.
77	SHIVENDRA KUMAR DIWAKAR	ME	GRIFEO TECHNOLOGY
			NANDA GLASS INDUSTRIES
			CHEGG INDIA PVT. LTD.
78	SOURAV KASHYAP	ME	CHEGG INDIA PVT. LTD.
79	LAXMAN MAHATO	ME	NANDA GLASS INDUSTRIES
80	SUNIT ABHISHEK PANNA	ME	UVIMAC ENGINEERING SOLUTIONS PVT. LTD.
81	ARJUN KUMAR BAURI	CE	HIDUJA GLOBAL SOLUTIONS
82	ASHA KUMARI	CE	BRIDGE GROUP SOLUTION
83	ASHINAV BHARAT	CE	CHEGG INDIA PVT. LTD.
84	SAUBHIT KUMAR GUPTA	CE	CHEGG INDIA PVT. LTD.
85	TABASSAM FATIMA	CE	BRIDGE GROUP SOLUTION

12.3 INTERNSHIP INCURRED BY STUDENTS

Sl. No.	Name of the Internship Programme	Name of the Organisation	Duration	Number of Students
1	Winter Training Program on Electrical Machines and Power Electronics	NIT Durgapur	5 days	40
2	CEMS VIZAG TRAINING	Vizag	5 days	40
3	Winter short course on Thermodynamics	IIT Gandhinagar	5 days	30
4	Student Exchange Program	NIT Warangal	8 days	30
5	Five days Training Program (RTBE 2020)	NIT Durgapur	5 days	20
6	Summer Internship at IIT Hyderabad	IIT Hyderabad	30 days	04
7	Winter Internship on Wireless Network technologies: Theory and simulations	NIT Rourkela	5 days	30
8	Internship in Advanced Networking Laboratory	NIT Rourkela	15 days	10
9	Summer Integrated Internship Program at NIT Warangal	NIT WARANGAL	15 days	20
10	Two Month Internship at Quick soft pro it Solutions Pvt Ltd Mahape	QUICKSOFTPRO IT SOLUTIONS PVT LTD MAHAPE	60 days	10
11	Industry Visit to New Delhi	TSOHA International	07 days	10
12	Indo Danish Tool Room Visit	IDTR, Jamshedpur	05 days	120

CHAPTER -13 RESEARCH AND DEVELOPMENT

13.1 SPONSERED R&D PROJECTS

SL. No.	Project Title	Project Grant	Sponsoring Agency	Principal Investigator	Co- Principal Investors
1.	“Performance Enhancement of Quantum Cascade Detectors for Infrared and Terahertz Detection through Active Well Engineering.”	19,20,000/-	TEQIP-III UNDER Collaborative Research Scheme	Dr. Sumit Saha Chaibasa Engineering College	Dr. Jitendra Kumar, IIT (ISM) Dhanbad Dr. Sudipta Chakraborty, Director, Chaibasa Engineering College
2.	'Preparation & characterization of Cu doped CdZnS thin films by chemical bath deposition method" Sponsoring Agency:	3,00,000/-	TEQIP-III Seed Grant	Prof. Emila Panda IIT Ghandinagar	Dr. Suresh Kumar Chaibasa Engineering College

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10. Dutta, Arijit and Das, Abhay Kumar and Gope, Ajay and Kumar, Akash and Saw, Akash Kumar and Mandal, Akshay Kumar, A Review on Classifying Object through Machine Learning published in International conference on Recent Trends in Artificial Intelligence, IOT, Smart Cities & Applications (ICAISC-2020)
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41. Dr. Ashish Narayan, Dr. Sanjay Kumar, P. K. Pal, S. K. Pandey, H. Hansdah, A. K., “Hypersonic Flow Past over an Elliptic Nose Cone Configurations”, Recent Trends in Artificial Intelligence, IOT, Smart Cities & Applications (ICAISC-2020), 2020.

42. Dr. Sanjay Kumar, Dr. Ashish Narayan, A. K. Ranjan, A. K. Bhardwaj, S. K. Diwakar, L. Kumari, "Optimization of AISI 304 Weld Joint Characteristics using Taguchi Technique", Recent Trends in Artificial Intelligence, IOT, Smart Cities & Applications (ICAISC-2020), 2020.
43. Dr. Sanjay Kumar, D. Patel, S. B. Prasad, M. K. Paswan, "Experimental and optimization of TIG welding tensile strength using ANOVA Stainless steel AISI 304 Plate", 2nd International Conference on Materials, Manufacturing and Modelling Jointly Organised By VIT Vellore, India Mokpo National University, Korea Zhengzhou University, China, 2019.
44. Dr. Sanjay Kumar, S. Jena, V. Lahoty, M.K. Paswan, B. Sharma, D. Patel, S.B. Prasad, V.K. Sharma, "Experimental investigation on the effect of welding parameters of TIG welded joints using ANOVA" ICMMM 2019.
45. Dr. Sanjay Kumar, P. K. Singh, D. Patel, S. B. Prasad, "Experimental Investigation and Optimization of Welding Parameters on TIG Welding of Stainless Steel AISI 304 Plates", Springer Nature Singapore Pte Ltd. 2019.
46. Optimal Reactive Power Dispatch based on Modified JAYA Algorithm Tanmay Das; Ranjit Roy; Kamal Krishna Mandal 2020 International Conference on Computer, Electrical & Communication Engineering (ICCECE).
47. Optimal allocation of wind based DG for enhancement of technical, economic & social benefits using Cuckoo Search Algorithm for radial distribution networks Anirban Chowdhury; Ranjit Roy; Kamal Krishna Mandal 2020 International Conference on Computer, Electrical & Communication Engineering (ICCECE).
48. Nishant Kumar, Kumari Namrata, "Optimal generation sizing for Jharkhand remote rural area by employing integrated Renewable Energy models opting energy management" Electric Power and Renewable Energy Conference (EPREC-2020) Springer Nature.

CHAPTER -14 START UPS AND INNOVATIONS**Start- Up Cell of Chaibasa Engineering College:**

THE ROOT -A Place where it starts

Creating a vibrant and dynamic Startup Ecosystem in Technical Institutions by playing a role of pre-incubator to promote, facilitate support system to innovative and entrepreneurial students and faculties to convert their innovative ideas/problems to tech-solution with a feasible business model stage.

Role of Pre-Incubator is to connect various student clubs (Idea clubs, Innovation Clubs, Start-up Clubs) to come up with tech solutions for the problems from Industry, Society, and Market to generate Ideas/Proof of Concepts (PoCs) and helping them to get converted to Prototypes and mentor them to develop business models ready. Therefore, creating a strong pipeline of quality and quantity tech based potential start-ups for incubators industry to take further.

In India, innovation is still not the epicenter of education. In order to achieve the cultural and attitudinal shift and to ensure that 'Innovation and Start-up' culture is the primary fulcrum of our higher education system we have introduce our own start-up cell that will help the students to nurture their innovations.

The Root is official E-Cell/Start-up cell of Chaibasa Engineering College. It promotes the spirit of entrepreneurship among the students of CEC Set-up was launched in the month of February of year 2018.A dedicated place was allocated in the Civil Engineering Block at 1st floor of area 105 square meter/1137 square feet with 3 sections for the operations of the cell.



Logo of Cell

Objective of Start-up Cell:

- To Develop a Critical Mass of Motivated Students & Faculties with Entrepreneurial Orientation & Skill
- To Build Infrastructure Support for Innovation & Early Stage Enterprise development and Enabling Access to Resource & Facilities at Institute
- To Enhance In-House Competency Development to Serve Potential and Early Stage Entrepreneurs and Student Innovators at the Institute.
- To Strengthen the Inter Department and Inter-Institutional linkage, Incubators and Other Ecosystem Enablers at Different Levels.

Smart India Hackathon 2019

SL. No.	Name of the participant	Team Name
1	Shakti Singh	Electrotech
2	Sonam Kumari	Electrotech
3	Shalini Kumari	Electrotech
4	Sourav Kumar	Electrotech
5	Ravindra Oraon	Electrotech
6	MD. Fahim Ansari	Electrotech
7	Nishant Kumar (Mentor)	Electrotech
8	Aslphons Sunil Lakra	Electrotech

Events organized under the banner of Start-Up cell: -

IDEATHON EVENT 19:

On the eve of this year “The Root: A place where it starts” had organized ‘COVID-19 IDEATHON: CREATION DURING ISOLATION’ which got tremendous responses form the students.

Three team had been selected winners for their innovative ideas named **TEAM YUKTI**, **TEAM PLATINAM**, **TEAM SHUBHAM SHARMA**.



DRISHTI

A photography competition had been organized in the month of June, 2020 where students from various institute like Heritage Institute of Technology, Haldia Institute of technology, Ranchi University and other reputed colleges had participated.



There were three categories under which students could submit their best taken photographs which would then be judged by separate internal judges and external judges.

The winners of the event were **Sanjay Kumar Mahato** of **Chaibasa Engineering College**, **Kumaresh Chandra** of **Heritage Institute of Technology** and **Lalita Kumari** of **Chaibasa Engineering College** in the mentioned categories.

SOCIAL RESPONSIBILITIES:

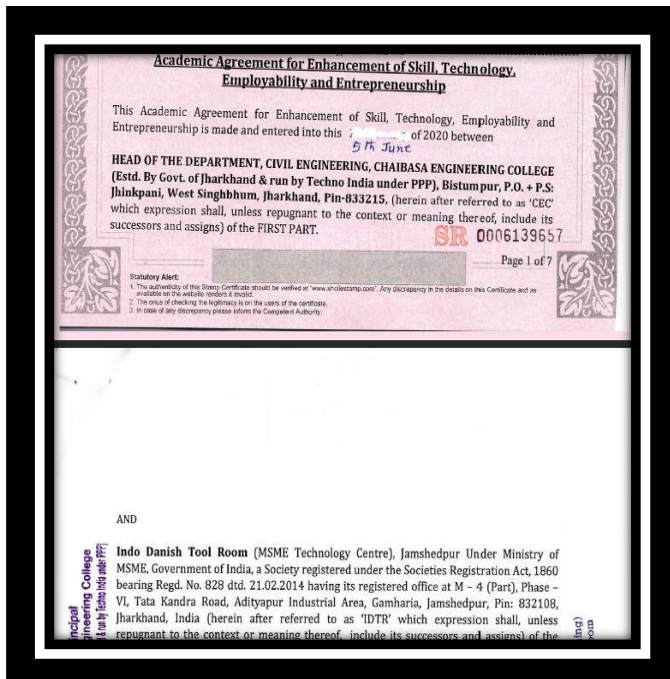
The dedicated members of “**The Root- A place where it starts**” took initiative to stretch helping hands to the village people of Chaibasa and surrounding rural areas that are significantly affected by the demerits of **Corona Pandemic (COVID-19)** situation.



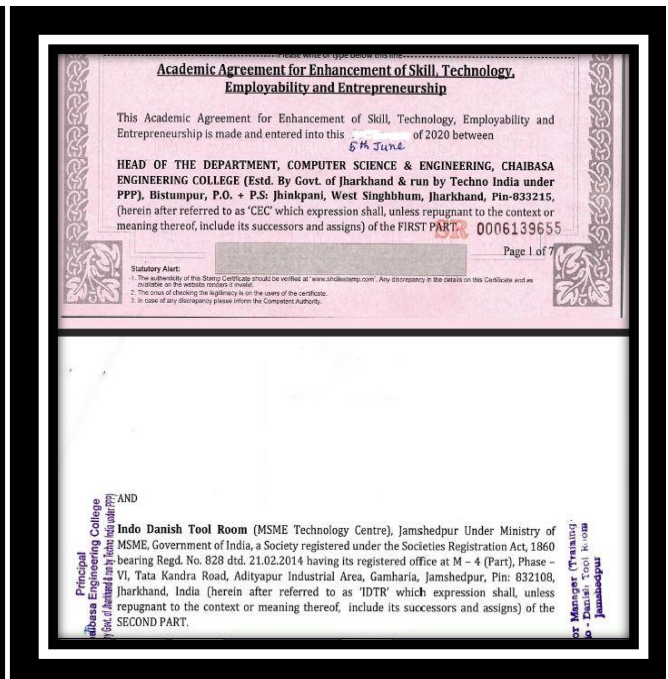
They had distributed 422 food packets, 350 soaps, around 200 bottles of drinking water in the villages in only three days untired.

CHAPTER -15 LINKAGE WITH INDUSTRIES

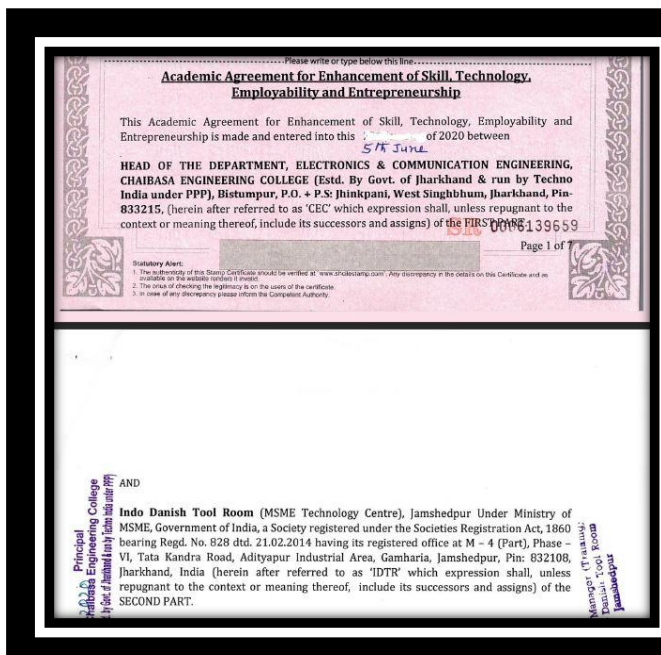
MOU between Chaibasa Engineering College and Indo Danish Tool Room Jamshedpur [IDTR]



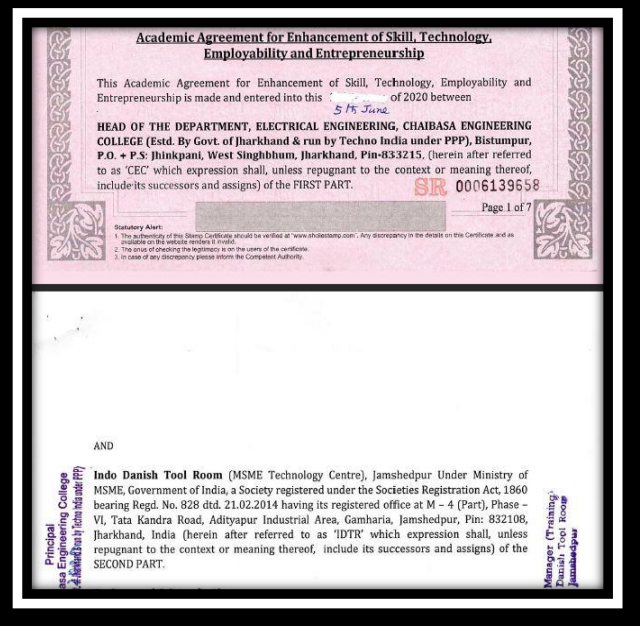
(MOU Civil Engineering)



(MOU Computer Science and Engineering)



(MOU Electronics and Communication Engineering)



(MOU Electrical Engineering)

MOU between AutoDesk and Chaibasa Engineering College held at 20th May 2020.



VIRTUAL LABS (IIT BOMBAY)



COLLABORATIVE ACTIVITIES

Industrial Visit



MECHANICAL ENGINEERING VISIT AT IDTR



ELECTRICAL ENGINEERING VISIT AT IDTR



ELECTRONICS & COMMUNICATIONS ENGINEERING VISIT AT IDTR



CIVIL ENGINEERING VISIT AT IDTR

CHAPTER - 16 CONSULTANCY PROJECTS & INTERNAL REVENUE GENERATED

SL. No.	Name of Projects	Name of the Client	Department	Duration	Amount
1.	(2.64 MTPA PELLET PLANT) Mix Design (M30 & M25) Grade of Concrete Time Period: 15 th November 2019 –15 th December 2019.	M/S Rungta Mines Limited, (Contractor: - ENKEBEE Infra Tech Private Limited)	CE	1 month	8000
2.	(2.64 MTPA PELLET PLANT) Mix Design (M30) Grade of Concrete with Stone Dust Time Period: 30th June 2020- 18th July 2020	M/S Rungta Mines Limited, (Contractor: - ENKEBEE Infra Tech Private Limited)	CE	1 month	2400

CHAPTER -17 STUDENT WELFARE & ACTIVITY**IEEE - STUDENTS BRANCH**

TDCS is an annual program conducted by IEEE Pune section to disseminate information about up- coming technologies among high school children. TDCS 2019 is conducted as a contest for University students who take special interest in promoting technical literacy among rural and urban high school children. This year TDCS-2019/Eu-Reka is being organized with focus on “lending a hand to raise the education ‘Reka’ of the country” (Reka in many Indian languages means a line and Eu-Rekasymbolises the National literacy level).It is a social Work towards reduction of dropout rate by creating curiosity and interest among high school students.



Figure: 19 IEEE students Branch – Chaibasa Engineering College

LITERARY CLUB

PARICHAY is club formed to get connected in COVID 19 pandemic situation among the students of CEC. First ever literary club formed which schedule weekly online events.

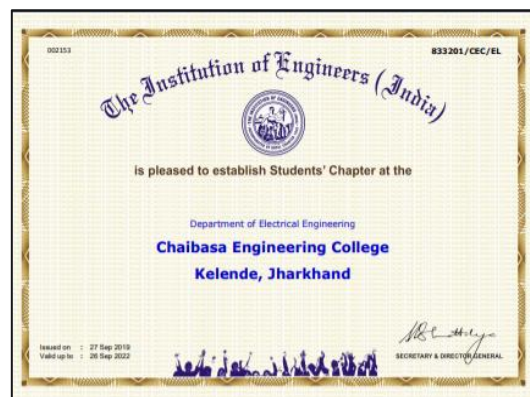
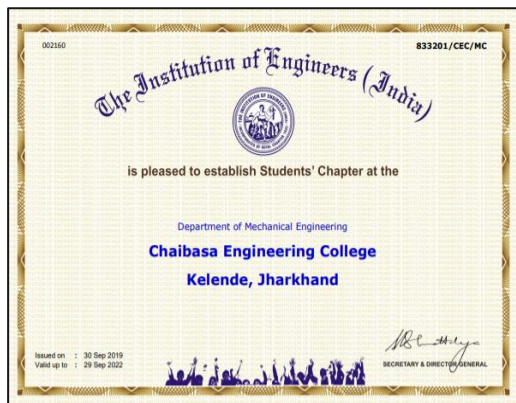
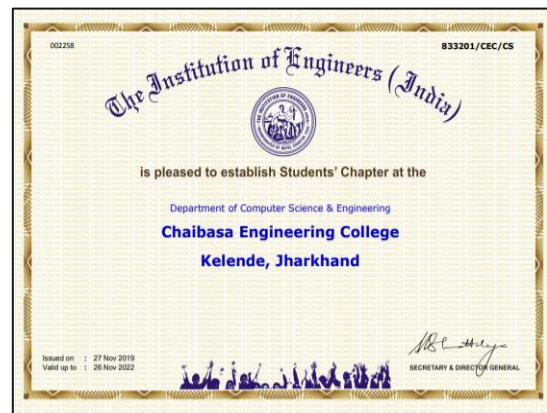
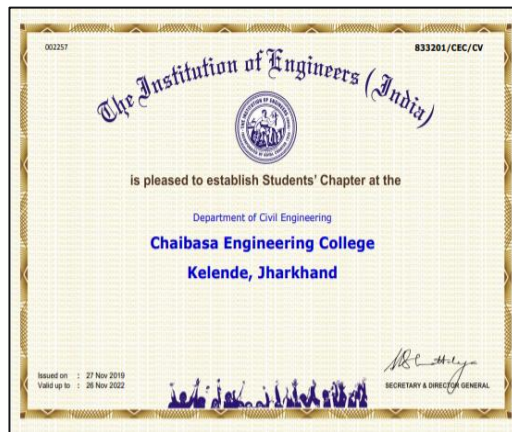
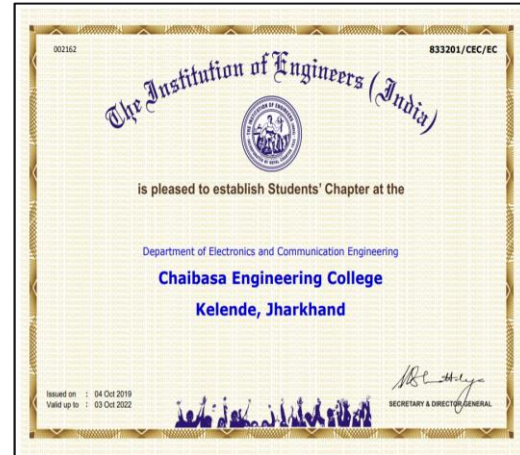
A “ABHIVYAKTI” is one of the many events organized meant to show case the thoughts and thinkability of students in domain of small writeups story and poetry.

**CURRICULUM ACHIEVEMENTS AND CO-CURRICULUM ACHIEVEMENTS****MATRIBHASHA DIWAS**

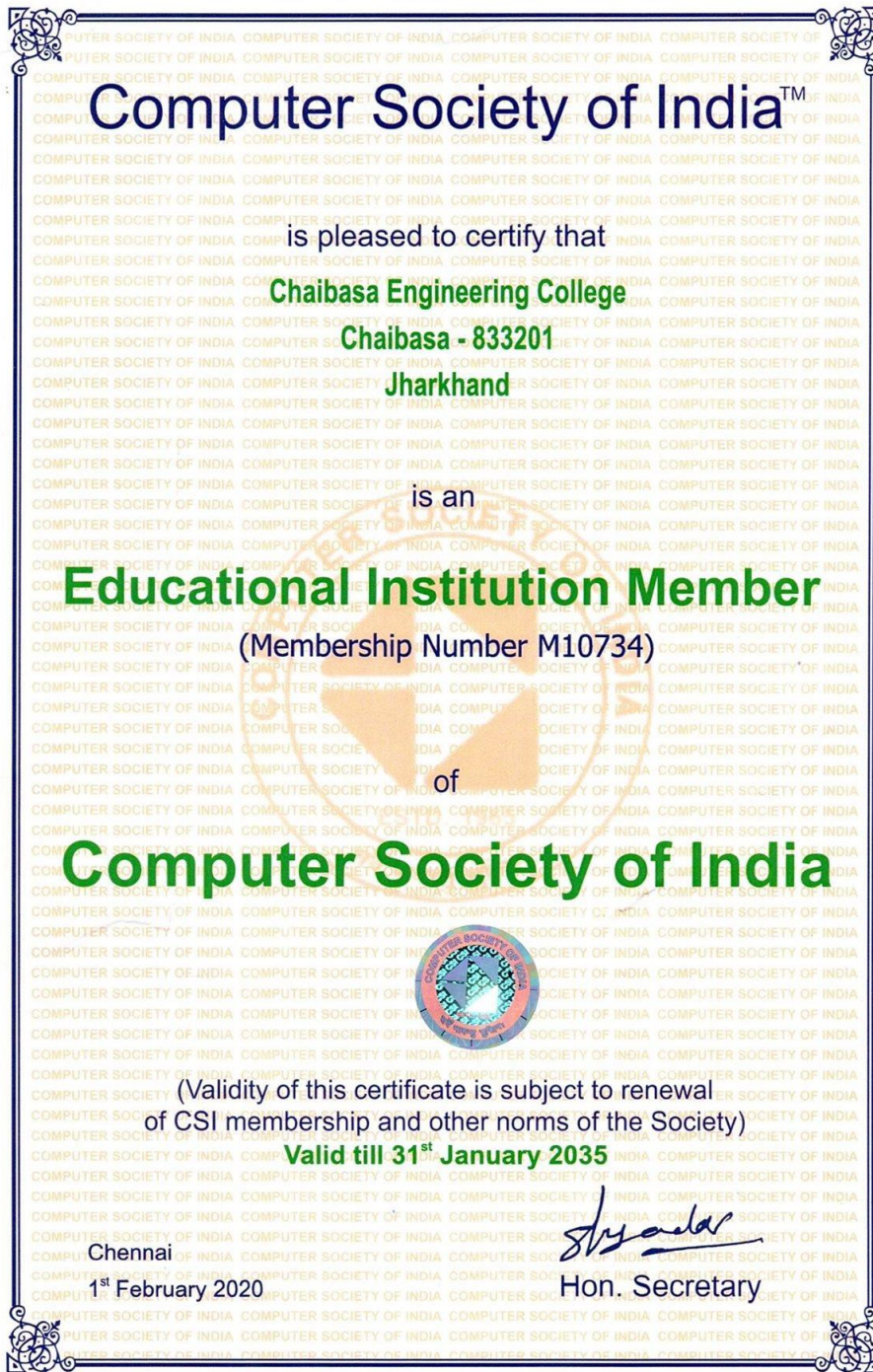
Chaibasa Engineering College celebrated Matribhasha Divas in campus on 21.02.2020 to commemorate the International Mother Language Day-A day dedicated to promote awareness of linguistic and cultural diversity. On this day students performed many innovative activity to respect such auspicious occasion. Faculty and staff members participated in this event to make the day successful and promote cultural diversity.

CHAPTER- 18 CHAPTERS ASSOCIATED

18.1.1 Institute of Engineers (India)



18.1.2 Computer Society Of India



18.2 EVENTS ORGANIZED BY CHAPTERS

Chapters	Events	Institute / Resource Person	Date of event
The Institution of Engineers (India)	student exchange and learning program	Vyakti Vikas Kendra	09.08.2020
The Institution of Engineers (India)	15 days TEQIP III sponsored summer integrated internship	NIT Warangal	01.07.2019 to 15.07.2019
The Institution of Engineers (India)	Smart India hackathon (H/w edition)	Dayananda Sagar College Of Engineering	08.07.2019 to 12.09.2019
The Institution of Engineers (India)	Introduction to Machine learning	Dr. Dakshina Ranjan Kisku, NIT DGP	24.09.2019
The Institution of Engineers (India)	Induction program for 1st year Art Of Living	Vyakti Vikas Kendra	03.09.2019 to 07.09.2019
The Institution of Engineers (India)	Recent Development On Welding Process	Dr. Ashish Das, Nit Jamshedpur	14.09.2019
The Institution of Engineers (India)	Role Of Civil Engineers For Earthquake Disaster Mitigation	Dr Radhikesh P Nanda, NIT DGP	26.09.2019
The Institution of Engineers (India)	Renewal Energy Applications In Mechanical Engineering	Dr Prabha Chand, NIT JSR	08.11.2019
The Institution of Engineers (India)	Renewal Energy Resource- A Future Direction Of Power System	Dr. Kumari Namrata, NIT JSR	07.10.2019
The Institution of Engineers (India)	Application Of Electronics In Industry	Dr Shivanand Singh, NIT JSR	16.10.2019
The Institution of Engineers (India)	Internet Of Things: The Recent Trends	Dr. Suhismita Chinara, NIT RKL	06.12.2019
The Institution of Engineers (India)	Application Of Fluid Mechanics & Fluid Mixing	Dr Aditya Bandopadhyay, IIT Kgp	12.12.2019
The Institution of Engineers (India)	Campus To Corporate Skill Building	Sandep Kumar, Jindal Infralogistics Ltd	24.11.2019
The Institution of Engineers (India)	Recent Trends In Biomedical Engineering	NIT Durgapur	03.01.2020 to 07.01.2020
The Institution of Engineers (India)	Building Material & Concrete Mix Design	Dr Virendra Kumar, NIT Jamshedpur	22.11.2019
The Institution of Engineers (India)	Special Classes In Microprocessor & Microcontroller	Dr Sudipta Chakraborty, Dumka Engg College	19.11.2019 to 22.11.2019
The Institution of Engineers (India)	Future Electricity-Pathway Of Smart Grid	Dr Vivekananda Mukherjee, IIT ISM Dhanbad	14.12.2019
The Institution of Engineers (India)	DSP Implementation On Embedded System	Dr Supratim Gupta, NIT Rkl	12.12.2019
The Institution of Engineers (India)	Geotechnical Engineering	Dr D K Baidya, IIT KGP	13.12.2019
The Institution of Engineers (India)	IOT EDA Tool Images Processing Power Electronics	Vlsi Centre, NIT Jsr	16.12.2019 to 31.12.2019
The Institution of Engineers (India)	Advances In Wireless Communication	Dr. Suchismita C Hinara, NIT RKL	18.01.2020
The Institution of Engineers (India)	Automation And Robotics 2020	Dr Sanjoy Kumar Ghosal, IIT ISM Dhanbad	18.01.2020
The Institution of Engineers (India)	Special Classes In Management Science	Tapan Bhattacharya	21.01.2020 to 24.01.2020

CHAIBASA ENGINEERING COLLEGE

The Institution of Engineers (India)	Skills To Achieve Entrepreneurship Development	Meghdut Roychowdhury, Ravi Ranjan, Andy Singh, Jaspreet Kaur, Jasmeet Kaur	19.01.2020
The Institution of Engineers (India)	Special Classes In Design Of RC Structure, Surveying And Geometrics, Structural Analysis	Dr D Ravi Prasad, Dr M Shashi, Dr T D Gunneswara Rao, Dr V N Kameswara Rao	11.02.2020 to 14.02.2020
The Institution of Engineers (India)	Special Classes In Power System, Measurement And Instrumentation	Dr. Chiranjib Koley, NIT Durgapur	25.02.2020 to 28.02.2020
The Institution of Engineers (India)	Analysis And Syntesis Of Active And Passive Networks For Electronics Design Engineers	Dr Susanta Kumar Parui, IEST Shibpur	14.02.2020 to 15.02.2020
The Institution of Engineers (India)	Internship At NIT Rourkela Under Dr. Supratim Gupta	Dr Supratim Gupta, NIT Rourkela	01.01.2020 to 01.02.2020
The Institution of Engineers (India)	Sustainability And Entrepreneurship: A New Direction	Pauline Laravoire	07.02.2020
The Institution of Engineers (India)	Internet Of Things And Internet Of Everything	Dr Pabitra Mohan Khillar NIT Rkl	13.02.2020
The Institution Of Engineers (India)	Recent Development In Water Resource Engineering	Dr. Kishanjit Kumar Khatua, NIT Rourkela	11.02.2020
The Institution Of Engineers (India)	Short Term Course On Wireless Network And Technologies	Dr Suchismita Chinara, NIT Rourkela	16.12.2020 To 20.12.2020
The Institution Of Engineers (India)	Internship In Advance Networking	Dr Suchismita Chinara, NIT Rourkela	16.12.2020 To 31.12.2020
The Institution Of Engineers (India)	Energy Forecasting Technique	Dr Chandan Kumar Chanda IEST Shibpur	14.02.2020 To 15.02.2020
The Institution Of Engineers (India)	Cmos Logic Design For Electronics Engineers	Dr Indrajit Chakraborty, IIT KGP	20.05.2020 To 2.05.2020
The Institution Of Engineers (India)	Mathematics Of Cyber Crime And Security	Dr Bimal Kumar Mishra	25.05.2020
The Institution Of Engineers (India)	Sematic Web Linked Data Engineering	Dr Animesh Dutta, NIT Durgapur	20.05.2020 To 22.05.2020
The Institution Of Engineers (India)	Power System Fault Analysis	Dr C K Chanda, IEST Shibpur	30.04.2020 To 02.05.2020
The Institution Of Engineers (India)	Converter For Renewable Energy System	Dr H M Suryavanshi, VNIT Nagpur	21.05.2020 To 23.05.2020
The Institution Of Engineers (India)	Issues And Challenges In Smart Grid Implementation	Dr S N Singh, NIT JSR	14.05.2020 To 16.05.2020
The Institution Of Engineers (India)	Short Term Course On Thermodynamics	Dr Dakshina Ranjan Kisku, NIT Durgapur	05.05.2020 to 07.05.2020
The Institution Of Engineers (India)	ATAL Workshop On Data Science	Dr Pabitra Mohan Khillar NIT Rourkela	16.11.2019 To 20.11.2019
The Institution Of Engineers (India)	Recent Trends In Power System	Dr Sanjib Mahanty, NIT Rourkela	25.01.2020
The Institution Of Engineers (India)	Design Of Steel Structure	Dr Sanjay Kumar NIT JSR	05.05.2020 To 07.05.2020
The Institution of Engineers (India)	Embedded System	Dr Supratim Gupta, NIT Rourkela	07.05.2020 to 09.05.2020
The Institution of Engineers (India)	Machine Learning Techniques For Biometrics	Dr Dakshina Ranjan Kisku	05.05.2020 to 07.05.2020
The Institution of	Automation And Control	Dr Sanjoy Kumar Ghosal,	17.04.2020 to

Engineers (India)		IIT Dhanbad	19.04.2020
The Institution of Engineers (India)	Numerical Methods	Dr Aditya Bandopadhyay, IIT KGP	21.05.2020 to 23.05.2020
The Institution of Engineers (India)	Special Classes In Engineering Economics	Tapan Bhattacharya	22.06.2020-24.06.2020
The Institution of Engineers (India)	3D Printing	Dr Pulak M Pandey IIT Delhi	14.05.2020 to 16.05.2020
The Institution of Engineers (India)	DRDO Opportunities And Challenges	Dr Trilok Chand Shami	06.06.2020
The Institution of Engineers (India)	Personality Differences In Decision Making	Dr Swati Sudha, NIT JSR	06.05.2020
The Institution of Engineers (India)	Dazzle Of Humanism And Empathy While Covid 19	Dr Sutanuka Banerjee, NIT Durgapur	14.05.2020 to 16.05.2020
The Institution of Engineers (India)	Reading And Language Acquisition	Dr R Joseph Pooniah	21.05.2020 to 23.05.2020
The Institution of Engineers (India)	Psycho Social Challenges During Lockdown	Dr Ramakrishna Biswal	25.04.2020 to 28.04.2020
The Institution of Engineers (India)	Prevention & Usage Of Equipments For Protection Against Covid	Dr Santosh Kumar Nirala	12.05.2020 to 14.05.2020

CHAPTER -19 CANDIDATE AWARDED & PERSUING Ph.D

SL. No.	Name of the candidate	Department	Date of Registration	Status
01	Subhadip Pan	EE	10.07.2019	Pursuing
02	Chayan Chakraborty	EE	07.03.2018	Pursuing
03	Nishant Kumar	EE	12.07.2018	Pursuing
04	Anil Kumar	EE	12.07.2018	Pursuing
05	Dr. Ranadip Kundu	ECE	03.02.2015	Awarded
06	Saunak Bhattacharya	ECE	06.12.2017	Pursuing
07	Dr. Abhijit Kundu	ECE	17.07.2013	Awarded
08	Debabrata Kumar Das	ECE	12.10.2020	Pursuing
09	Sangeeta DebBarman	ECE	15.10.2020	Pursuing
10	Beas Bhadra	CSE	28.09.2020	Pursuing
11	Sunil Gouda	CSE	25.07.2017	Pursuing
12	Dr. Ashish Narayan	ME	31.02.2014	Awarded
13	Dr. Sanjay Kumar	ME	03.01.2014	Awarded
14	Mr. Nitish Kumar	ME	16.07.2018	Pursuing
15	Mr. Md Shamim Raza	ME	10.01.2019	Pursuing
16	Santosh Kumar	CIVIL	07.07.2019	Pursuing
17	Rina Kumari	CIVIL	13.08.2018	Pursuing
18	Mrigendra Kumar	CIVIL	07.01.2019	Pursuing
19	Raman Kumar	CIVIL	13.08.2018	Pursuing
20	Vandana Anand	CIVIL	13.08.2018	Pursuing
21	Dr Dinbandhu Mandal	BSH	18.08.2013	Awarded
22	Dr Suresh Kumar	BSH	20.07.2013	Awarded
23	Dr Tarashankar Das	BSH	26.07.2014	Awarded

CHAPTER – 20 CONFERENCE

Name of the Conference	Organized by	Total number of participants		Total paper published	
		Faculty	Students	Faculty	Students
International conference on Recent Trends in Artificial Intelligence, IOT, Smart Cities & Applications (ICAISC-2020)	Department of Computer Science & Engineering And Electronics & Communication Engineering	11	116	32	24





ICAISC-2020 is an International Conference hosted by Department of Computer Science & Engineering, Chaibasa Engineering College (Estd. By Govt. of Jharkhand & run by Techno India under PPP), approved by AICTE, New Delhi & affiliated to Kolhan University, Chaibasa, Jharkhand, India and supported by DST Jharkhand and TEQIP-III covering research aspects to engineering, technology and applied science in theoretical and practical aspects.

ICAISC-2020 provide an exceptional platform to the researchers to meet and discuss the utmost solutions, scientific results and methods in solving intriguing problems with people that actively involved in these evergreen fields. International Conference on Recent Trends in Artificial Intelligence, IoT, Smart Cities & Application(ICAISC 2020),Jharkhand, India organised on 28th -29th Feb,2020. This conference aims to create a platform for open communication and idea exchange on the recent Technological and Engineering developments. This conference provides an international forum for sharing knowledge and innovation in the field of Instrumentation, Control and Automation, Electrical, Electronics and Communication. This also aims to encourage intellectual development and providing opportunities for networking and collaboration

CHAPTER – 21 FINANCIAL INFORMATION: FUNDS RECEIVED & SPENT

TEQIP FINANCIAL REPORT WITH BIFURCATION

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP PHASE III)					
CHAIBASA ENGINEERING COLLEGE, CHAIBASA					
INCOME AND EXPENDITURE ACCOUNT for the year ended 31 st MARCH 2020					
EXPENDITURE			INCOME		
PREVIOUS YEAR	PARTICULARS	AMOUNT	PREVIOUS YEAR	PARTICULARS	AMOUNT
	Payment to Consultants				
	seminars and workshops (1.1.2)	1,31,82,744.00	4,34,04,926	Receipt from NPIU/ TEQIP	4,01,82,474.00
	Administration Expenditure (1.1.3)	29,53,607.00			
	Salary (1.1.4)	77,79,817.00			
	Excess of income over Expenditure	1,62,66,306.00			
	Total	4,01,82,474.00		Total	4,01,82,474.00