

RAMGARH ENGINEERING COLLEGE

[ESTD. BY GOVT. OF JHARKHAND & RUN BY
TECHNO INDIA UNDER PPP]



OVERVIEW

Ramgarh Engineering College (Estd. by Govt. of Jharkhand & run by Techno India under PPP) established with the prior approval of All India Council For Technical Education (AICTE) and affiliation of VinobaBhave University (VBU), is as an institution under public private partnership between the Government of Jharkhand and Techno India. It is situated in the outskirts of Ramgarh district town on NH-23 at Murubanda, near Chittoorpur, Rajrappa project covering an area of 24 acres including hostel facilities for both boys and girls as well as staff quarters, is having a pollution free environment. Thus the college being in a residential campus provides round the clock Gurukul facilities to the learners. Ramgarh lying at the heart of the Jharkhand state, is a mining, industrial, and cultural hub with the famous Maa Chhinnamasta Temple at Rajappa. The Ramgarh district is rich in minerals, rich deposit of coal & coal bed methane (CBM) and also has various other minerals like limestone fire clay etc. Several mineral based industries like steel, sponge iron, cement, refractory and thermal power plant etc are established due to available of coal and other minerals.

In 2014, the college was instructed by Jharkhand Government to be named as Government Engineering College, Chaibasa (Run and managed by Techno India Group) later on by the order of GOJ institute has been renamed as Chaibasa Engineering College (Estd. By Govt. of Jharkhand & Run by Techno India under PPP). Till now the college is at its fifth successive year with 4 batches amounting to a total of 960 students. This year the college will have its second pass out batch. During this five years 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 NPTEL.

It has also carried out several government programs like Pradhan Mantri Kaushal Vikas Yojna (PMKVY) and 'Vidya Saksharta Abhiyan'.

2017 we have received prestigious TEQIP phase III project, funding assistance by MHRD, Central Govt. & World bank. Several quality improvement program has started under this project.

We, have always been trying to keep our commitment towards our goal to spread education among the 'technocrat' of the new era without ignoring the need of proper moral development of the students of the post-modern age. We have all along tried to make our pupils realize that the hidden truth is 'Education is the manifestation of the perfection already in man'.

The nearest railways station that connects the campus is 'Meal' station. The other stations through which the college can be reached are Ranchi Road (Ramgarh), Muri Junction and Ranchi Junction. The available trains are Howrah-Ranchi Shatabdi Express, Howrah-Hatia Express, Jabalpur Howrah Shaktipunj Express, Ranchi-Hawrah intercity, Patna Ranchi Jan Shatabdi Express Adra-Barkakana Passenger, Patna-Hatia Express etc. The campus is also well connected by bus services from nearby cities like Bokaro, Dhanbad, Ranchi, Kolkata, Jamshedpur etc. The campus is also connected to nearest Ranchi Airport which has good connectivity with daily flights operating for all major cities of India.

ACHIEVEMENTS

- **NPTEL Local Chapter**

This college has the facility of NPTEL Local Chapter and hence has the local storage of all NPTEL online courses. Furthermore, this college can be an examination center for NPTEL online certification courses.



- **Placement Opportunities to students**

This institute has organized several professional training and grooming sessions by experts for the students to make them competent in the recruitment drives. Nowadays, interpersonal skills are very necessary to meet the requirements of the recruiters. Three grooming sessions were conducted in campus and one technical training was conducted at Salt Lake in Kolkata where around 150 final year students participated. All the training and grooming sessions were organized by highly skilled professionals and industry-oriented experts. Due to this endeavor, students have successfully passed the initial barriers in the campus recruitment drive. A total of 25 – 30 recruitment drive, both pool campus and on campus, have been organized for students of this institution.

- **Exceptional performance of students in Vinoba Bhave University**

Our students have performed very well in academics. Pass ratio is very high than other colleges in University. Furthermore, some students have performed exceptionally well to be the university topper. The students of this institution have been performing well on average, passing percentage being around 90% on average. To be specific, students of some departments have been performing exceptionally well consistently.

- Result analysis**

Odd semester examination held on 2017

SL. NO.	SESSION (SEM)	NO.OF STUDENTS APPEARED	NO.OF STUDENTS PASSED IN ALL SUBJECT	NO.OF STUDENTS WITH BACKLOG	HIGHEST MARKS OBTAINED	AVERAGE SGPA
DEPT. OF ECE						
1	2015-19(5th)	41	41	0	9.27	7.99
2	2014-18(7TH)	39	39	0	8.80	7.4
DEPT. OF EE						
1	2015-19(5th)	52	47	05	9.33	7.73
2	2014-18(7TH)	54	51	03	9.60	7.73
DEPT. OF CE						
1	2015-19(5th)	64	60	4	9.73	7.84
2	2014-18(7TH)	62	61	1	8.73	7.41
DEPT. OF CSE						
1	2015-19(5th)	45	40	5	8.53	7.41
2	2014-18(7TH)	37	31	6	8.07	6.92
DEPT. OF ME						
1	2015-19(5th)	59	59	0	8.80	7.28
2	2014-18(7TH)	63	62	1	9.27	8.11

**** The first and third semester results are not yet published**

- Admission status of 2017:**

Stream	1st year	Lateral Entry
CE	42	13
CSE	42	20
ECE	29	12
EE	33	11
ME	36	16
Total	182	72
Grand total (1st year + Lateral entry)		254

- **Library**

Fully equipped and developed library is present in this institution. The book bank consists of 15408 books along with several journals. Furthermore, the library has indigenously developed digital library with 1000 e-books in the local server. The college intends to add a further amount of 5000 e-books to be uploaded to the local server by the end of this year. Students in the college campus having access to the college internet can easily access the e-books.



- **Fully Wi-Fi campus**

Entire campus is Wi-Fi enabled with a speed of 16 MBps. Students can access internet facilities from their hostel rooms. Faculties can also use the internet service from their residence throughout the day.

- **Tree Plantation Program**

Every year this college organizes 'Tree Plantation program'. And till now almost 250 plants have been planted. An initiative for beautification of the campus has been taken.

- **Technical Fest 'Techfeasta'**

For last two years, this college has been organizing annual technical fest Techfeasta. Students from all other schools and colleges participate in the program displaying their technical knowledge and skills. It encourages the students to develop technical skills, explore new age technologies and a collaborative nature to work as a group.

- **Cultural Fest 'Uddhshra**

Every year cultural fest is organized to encourage students to involve in several cultural and extra-curricular activities. The institution strongly believes that apart from imparting technical education, cultural development is very necessary for holistic development of students and society.

- **Pradhan Mantri Kaushal VikasYojna (PMKVY)**

Apart from its own activities, this institution has participated in several government programs like PMKVY. The faculty members of this college are actively engaged in imparting education to the local uneducated people to enable them as technically skilled laborer under this program.

- **'VittiyaSakshartaAbhiyan' (VAS)**

This institution is also dedicated to the society and hence participated in 'VittiyaSakshartaAbhiyan' as a step towards demonetisation and Digital India. It has organized a seminar on cashless transactions and provided the local administration around 15 students for spreading the awareness for demonetisation in locality.

- **Funding assistance from TEQIP III**

We have become part of few privileged institute in this state of Jharkhand, who have got Teqip III fund assistance. We have already started & accomplished many works under this project (like Language lab, computer lab, subscription of e-journals etc). Our faculties & students are constantly receiving training from several IIts,IIMs, on many subjects under this project. We are providing several coaching assistances to the students by the industry /professional people related to the field.

- **Start-Up cell of REC ("The root")**

"Start -Up" Cell of Ramgarh Engineering College aims to Implement "Start-UP India " Initiative from institute level to make students 'Job Creators' rather than 'Job Seekers'. Here the Cell aims to identify the Potential idea from students & would help to transform them into Start-Up Entrepreneurs.

- **Registered Under NBA**

We have already registered for NBA accreditation Process in their portal. We are planning to apply in the next academic session (2019-20). We have already started preparing our self for the process.

- **Mentorship by BVB Hubli**

We have been receiving mentorship from the one of the most prestigious Technical Institute of our country (BVB Hubli). It is helping your faculty as well as students to some greater extent. Their senior faculties are visiting our institute on a frequent basis & addressing concern/issues (academic, non-academic) of our institute. Several FDPs had also been conducted under this scheme & many more has been planned for future.

- **Publication of faculty members in 2017-18**

1. Conceptual Density Functional Theory and Its Application in the Chemical Domain, Editors- Nazmul Islam, Savas Kaya, Apple Academic Press, Waretown, NJ-08758, USA 2018.
2. Conceptual Density Functional Theory: Its grand application to atomic and molecular domain, Editor- Nazmul Islam, Special Issue, 7(2), Current Physical Chemistry, 2017.
3. Carbon Nanotubes-Properties and Application, Sonia Khanna and Nazmul Islam, Organic and Medicinal Chemistry, Vol-7, Issue-1, 2018.[in press]
4. The Application of Some Computing Techniques in the Drug Design, Nazmul Islam and Savas Kaya, Organic and Medicinal Chemistry, 2 (5),1-9, 2017.
5. Editorial: Conceptual Density Functional Theory: Its Grand Application to Atomic and Molecular Domain, Nazmul Islam, Current Physical Chemistry, 7(2): 83 – 84,2017.
6. On the Application of Conceptual Density Functional Theory to Atomic and Molecular Domain, Nazmul Islam, Current Physical Chemistry, 7(2), 85-93, 2017.
7. Evaluation of the Protonation Energy of Molecules using Conceptual Density Functional Theoretical Reactivity Descriptors, Sandip K. Rajak, Nazmul Islam and Dulal C. Ghosh, Special Issue, Conceptual Density Functional Theory: Its grand application to atomic and molecular domain, Current Physical Chemistry, 7(2), 126-132, 2017.
8. On the application of Conceptual Density Functional Theory to Atomic and Molecular Domain, Nazmul Islam, Special Issue, Conceptual Density Functional Theory: Its grand application to atomic and molecular domain, Current Physical Chemistry, 7(2), 85-93, 2017.
9. Computation of the Ionization Energies of the Atoms of 103 Elements of Periodic Table from Atomic Spectroscopic Data, Dulal C Ghosh, Nazmul Islam, Pallabi Acharyya, SciFed, Journal of Quantum Physics, 1(3), 2017.
10. The Conceptual Density Functional Theory: Origin and Development to Study Atomic and Molecular Hardness, Nazmul Islam, Chapter 1, Conceptual Density Functional Theory and Its Application in the Chemical Domain, edited by Nazmul Islam & Savaş Kaya, Apple Academic Press, USA, 2018
11. Ionization Energies of Atoms of 103 Elements of Periodic Table Using Semiempirical and Dft Methods, Nazmul Islam, Savaş Kaya and Dulal C. Ghosh, Chapter 14, Conceptual Density Functional Theory and Its Application in the Chemical Domain, edited by Nazmul Islam & Savaş Kaya, Apple Academic Press, USA, 2018.
12. Time Delay SEIRS e-Epidemic Model for Computer Network. Kaveri Kanchan Kumari, Aditya Kumar Singh and Sahdeo Mahto, International Journal of Mathematical Archive-9(2), 2018, 265-273.
13. A Statistical Analysis on Climatic Temperature using Exponential Moving Average, Saurav Bhaumik, Abhishek Mukherjee, International Conference On Energy, Materials And Information Technology, Amity University, Ranchi, December, 2017(Springer).

- **Abnormal Electric power cut:**

Frequent power cuts and low voltage in our college have become a major source of worry for us to run the college. In order to overcome, we are running the Diesel Generator maximum time. Cost of Diesel is Very High. To overcome this problem, we are planning for Procurement of Solar Cell which needs Leasing the Rooftop. But it is prohibited by Concession Agreement. We need Statutory Approval from GoJ.

- **Connecting road from national highways to college main gate**

REC premises is situated beside the National Highway but the issue is from Highway to college entrance gate that is approximately 1Km distance which is in improper condition. We have approached concerned authority many times without any result.

- **Usable Water Crisis**

Presently in the college campus there are two active bore wells. But it is very evident that this is not enough particularly in the summer season to come. We need four active bore wells. Due to less success ratio in deep boring, we seek government support on this water crisis.

- **Accommodation Crisis**

Presently with the four batches running, we are facing a huge shortage in providing hostel accommodation to all the students who seek for. Hence it is very necessary to have another boy's hostel of similar capacity with existing one. Furthermore, an additional faculty quarter is required. Due to the shortage of adequate accommodation, senior and reputed professors refuse to come in this college. It is requested to look into this matter for betterment of delivery of education in this college.

- **Poor condition of existing buildings**

Present status of existing buildings is a big concern to the dwellers. There are huge cracks in the wall, seepage from the roof. During the rainy season the dwellers of the top floor of all the buildings faced a tremendous problem of seepage of water. Due to poor financial viability, we are unable to repair all the buildings.

- **Medical Facility**

As per AICTE norms, facility of first aid and a sick room is necessary for any engineering college which we possess. But since this college is located in remote location away from the city and poor transport facility after evening, professional doctor in this campus is required. Hence it is a plea to government if they can provide us with a doctor and ambulance that will benefit this institution as well as local people.

- **Lack of playground**

Due to the hilly terrain of the campus, there is no space for playground. If we need to do then it will be necessary to cut the mountain which may pose serious threat to the buildings above. In lieu of that there is an empty land in front of the college. If with the help of government and local administration, we can have that land as a playground for students then it will provide a chance to students for healthy recreation.

FUTURE PLAN FOR RAMGARH ENGINEERING COLLEGE

- **NBA accreditation for all five departments: -**

We are applying for 5 departments and also working hard to get the accreditation for all five departments of the institute. So that we can call our self an NBA accredited institute as a whole. Currently we are proving our top focus on this issue.

- **R&D Cell of Institute**

R&D (Research & Development) plays a very important role in the success of an organization. It is the R&D function that provides a platform for creativity and innovation to flourish in an organization. When we talk about quality improvement then it becomes very important to have a R&D facility, which is beneficial for faculty & student both. Hence, we wish to have a R&D facility to encourage creativity & better research.

- **IEEE international conference**

We are planning to conduct few international IEEE conferences in the coming academic year.

- **Digital library**

We have already started digitization program of library. Work had been going on for last 1yr & progress was not satisfactory, since we had planned to implement this by indigenous resources (developed by our own faculty & support staff). However, from this year we have changed our course of action & initiated outsourcing (from External expert professionals) on many core issues of the project. Hence, we are confident that by the end of coming academic year we would be able to complete digitization process of our library. In fact, we are trying to complete this process way before our estimated time.

- **Smart Class room**

With the help of TEQIP phase III we have planned to set up one Smart Class room for every department of this institute to encourage active learning & outcome-based education.

- **Incubation like facility for Start-Up Activity**

To provide best exposure & facility to the start-up enthusiast, we have decided to open a semi incubation facility, equipped with all basic facilities required. We would also like to arrange a conference room, office room inside that facility & wishes to provide access on 24*7.

- **Separate Employability & GATE training facility**

Ramgarh engineering college wishes to make their student more employable compare to other institutes student. In order to do so we are in conversation with many expert consultant/professional of this country & soon we will start this special employability program for our students. Along with this we also wish to provide separate professional coaching for GATE aspiring Students

- **Inter College Start-Up summit**

We are planning to conduct a inter college start-Up summit at our campus with at least 20 other institutes of this area.

- **Student Exchange Program with BVB Hubli**

We are discussing the possibility of a student exchange program with our mentor institute BVB Hubli & accordingly made a joint action plan.

e-prospectus: