

Ramgarh Engineering College

Established by Govt. of Jharkhand, Run by Techno India under PPP ISO 9001:2015 Certified Institute

Accredited By*-



PRATYAKSHA

Towards shining

REC Alumni Magazine

Vol-II, 2022



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Institute Vision & Mission

VISION

To emerge as an institute of excellence in the field of Engineering and Technology based on quality education and research activities leading to produce competent, responsible engineers and overall a good human being who will be innovators and entrepreneurs to serve the industry, society and our nation at large.

MISSION

- Imparting quality teaching and learning process throughout the course curriculum.
- Fostering Industry Institute Interaction for quality training, research, project management and consultancy.
- Ensuring value-based education focused on environmentally sustainable society.
- Promoting exchange of thoughts on technological research, innovation and entrepreneurship for the benefit of the society.

College Alumni Association

- 1. Dr. Nazmul Islam (Vice Principal & Chair Person)
- 2. Mr. Akash Kumar (Alumni Head)
- 3. Mr. Arunabha Dutta (H.O.D. EE & Member)
- 4. Mr. Nilesh Kumar (H.O.D ECE & Member)
- 5. Mr. Uttam Biswas (Member)
- 6. Mr. Rajeev Ranjan (Member)
- 7. Mr. Deepak Kumar (Member)
- 8. Mr. Tapas Mahisal (Member)

Student Alumni Member

- 1. Shubham Sinha (Mechanical Engineering)
- 2. Rishu Ravi Raj (Mechanical Engineering)
- 3. Neha Gupta (Electrical Engineering)
- 4. Suman Mandal (Electrical Engineering)
- 5. Yogesh Hansda (Civil Engineering)
- 6. Vicky Kumar (Civil Engineering)
- 7. Vivek Kumar (Electronics and Communication Engineering)
- 8. Shubham Shekhar (Electronics and Communication Engineering)
- 9. Mukesh Kumar Dangi (Computer Science & Engineering)
- 10. Sakshi Chaudhary (Computer Science & Engineering)
- 11. Raj Vishwakarma (Computer Science & Engineering)

"PRATYAKSH.... Towards shining"

 W_{e} are glad publish the alumni magazine "PRATYAKSH..... Towards shining" this is publishing in year of 2022-23. We have endeavored to put the view of present students thought which allude they possess the innovative and amazing talents. The magazine is published for aluminize of REC Ramgarh college. In this magazine the juniors have given the different thoughts by their own thoughts that have the great motivational era. Yes, the magazine has the great preamble to envisage not only to aluminize but also to everyone. We hope they all will enjoy and possess the wonderful and bright future.

EDITOR

Mr. Akash Kumar

Assistant Professor, Electrical Engineering

EDITORIAL ASSISTANT

Suman Mandal

(Electrical Engineering)

Raj Vishwakarma

(Computer Science & Engineering)

ABOUT US

Ramgarh Engineering College (Estd. by Govt. of Jharkhand & run by Techno India under PPP) previously known as Techno India Ramgarh and Government Engineering College, Ramgarh, established with the prior approval of All India Council for Technical Education (AICTE) and affiliation of Jharkhand University of Technology, is 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 Chitarpur, Rajrappa project covering an area of 24 acres including separate hostel facilities for both boys and girls as well as staff quarters, is having a pollution free environment.

The college is <u>ISO 9001:2015</u> certified and <u>TEQIP-III</u> (World Bank and MHRD, Govt. of India) funded institute.

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 college is following outcome-based education (OBE) system in all of its five undergraduate (B. Tech) departments- CE, ME, CSE, ECE, and EE as prescribed by the National Board for Accreditation (NBA). Educators are trained for OBE from IIT Gadhinagar.

The college frequently organizes seminars/workshop for upgradation of students where eminent resource persons are invited.

The mentor of the college is BVBCET, Hubli (now KLETech University, one of the best engineering institutes in India). Through TEQIP-III, the faculty of BVBCET and several IITs and NITs are regularly taking seminars and workshops for students. Our faculty members are trained in several IITs and IIMs.

MESSAGE FROM THE PRNICIPAL'S DESK

I am delighted to know that our alumni association is going to publish first magazine. Congratulations!

The Alumni Association recognized a better student experience promotes better alumni relations. The sense of family now includes alumni. The magazine will provide an environment through which the alumni can share their stories and become mentors and guides the generations to come. With their rich experience, the alumni can contribute greatly to the educational experience of our college. The alumni are the measure of the success of the college and the foundation of our future.

I invite all pass out students to become a member of "REC alumni". We look forward to your contribution to make this association a great success.

Dr. Sharbani Roy Principal, REC, Ramgarh

MESSAGE FROM THE VICE PRINCIPAL

I am quite pleased to learn about the forthcoming first issue of the Alumni magazine, "(PRATYAKSH......towards shining)'. This magazine will continue to thrust our noble institution in the right direction as per our vision statement -"To emerge as an institute of excellence in the field of Engineering and Technology based on quality education and research activities leading to produce competent, responsible engineers and overall a good human being who will be innovators and entrepreneurs to serve the industry, society and our nation at large"

The scope and aim of this magazine is not only to maintain the contact with other alumni, new students, teachers and industry professionals but also the benefits that come with being part of such an association. I hope in future the magazine will offer a wealth of benefits like an online networking community; careers support service, and networking social events.

An Alumni is the nurtured, cherished and held in high regard and affection. Every student who passes from Ramgarh Engineering College will surely realize the importance of college life and make a positive impact on the society. I hope you will find the alumni association a valuable resource and support tool throughout your professional life and beyond, and enjoy the benefits that come with being part of REC global community.

I take this opportunity to appreciate and applaud the editorial board for bringing out this magazine. May all our students bring glory to the world with their excellent thoughts!

Best regards,

Dr. Nazmul Islam Vice Principal, REC, Ramgarh

MESSAGE FROM ALUMNI HEAD

It gives me great pleasure to address you on our alumni of our institute. A day like this is very important as it gives us the opportunity to connect with many of our graduates after a long time.

A living institution makes an impact on everything it touches on the minds and dreams and characters of students, on the world of ideas and their practical application as we transfer knowledge and innovations to the world beyond our campus, and on the communities with which we engage, locally and around the globe. As we inspire our students, sometimes they repay us in full measure.

In recent years has steadily been building our capacity to create a truly Institute. In my view, greatness requires four things: wonderful students enjoying a tremendous student experience; very successful faculty; a supportive campus learning environment; and substantial financial resources.

As I come to a close, I would like to reiterate the role you play in the wider society. Most of you hold key positions of influence. I would appreciate to see that you use the influence to direct the development of our society positively. You should always endeavor to uphold good morals and act as an inspiration to the society. I want to thank all of you for the amazing support you have always extended to the alma mater.

Best Regards

Mr. Akash Kumar (Assistant Professor, EE)

MESSAGE FROM THE DESK OF ALL THE DEPARTMENTS

HOD Mechanical Engineering

Department of Mechanical Engineering wishes to all the alumni of department to have good health and success in life. It is the pleasure of department to help the alumni at any stage of life.

Best Regard **Dr. Bagesh Bihari**

HOD Electrical Engineering

Electrical Engineering is an exciting and dynamic field that deals with the technology of electricity, especially the design and applications of circuitry and power generation and distribution, machine control communications. It enjoys high demand service status in modern manufacturing and industrial processes. The need to cater the ever-growing demand for trained professionals in the field has led to the establishment of the department in the institute The EE department provides in depth knowledge to the students about basic principles of Basic Electrical Technology, Electrical Measurement and Instrumentation, Electrical Machine, Power Generation, Control systems, electronic gadgets, circuits, programming of Microcontroller, Digital System Design etc. and enables students to choose the correct path for their career. The department also encourages research in the field of Electrical Engineering. The department admires technology development through innovations and its exploitation for the benefit of human kind. Department offers quality education through use of modern reaching aids technique and to undertake research in engineering and technology. The infrastructure and lab facilities are upgraded from time to time and provide a good practical learning and innovative environment for students and researchers.

Students are also encouraged to undergo supervised practical training in different industries so as to get hand on experience and become employable technocrats.

Best Regard
Mr. Arunabha Dutta

HOD Electronics & Communication Engineering

Dear Alumni,

Thank you for your valuable involvement with the Ramgarh Engineering College. In interacting with many of you, I have felt your affection for your alma mater. Several of you have expressed a desire to help recruit the next generation of engineering students and to encourage and mentor students currently in our program. I invite you to come by and let us show you some of our newest developments. I think you will be pleased.

Thank you again for your great support!

Best Regards

Mr. Nilesh Kumar

HOD Computer Science & Engineering

This message is both an appreciation of our memorable journey already traversed together and a token of our expectation towards your participation in furtherance of the noble collective purpose of the Ramgarh Engineering College. The issuance of the Alumni Magazine is a step in this direction. It is an effort to reminisce about those "good old days" while, simultaneously urging the stakeholders to reinvigorate their passion and commitment to transform the institution to a noble and fertile centre of human resources.

Best Regards **Mr. Asim Kumar Mahato**

HOD Civil Engineering

It gives me immense pleasure to congratulate the team who has taken an initiative to produce the first Alumni magazine "PRATYAKSH...towards shining" of Ramgarh Engineering College, Ramgarh. An organization's alumni are the reflection of its past, representation of its present and a link to its future. This magazine will help one in connecting with fellow graduates and institute to see what everyone's been up to. This magazine will display the various achievements and events of college which has been accomplished. Also, would be an inspiration and motivation for the students and staffs for producing the forthcoming issues of the same. I wish the magazine a grand success.

Best Regards

Dr. Sumanta Rakhshit

HOD Basic Science of Engineering & Humanities

Congratulations on the upcoming publication of the magazine "Pratyaksh.... towards Shining". This is a great reminder to look back in the college days. It will also give a chance to the alumni to relive their college life. I heartily wish a great success of Pratyaksh.

Best Regards Mr. Rupam Pal

SKETCH SEGMENT



Figure 1: Sketch by Anjali



Figure 2: Sketch by Anjali



Figure 3: Sketch by Anjali

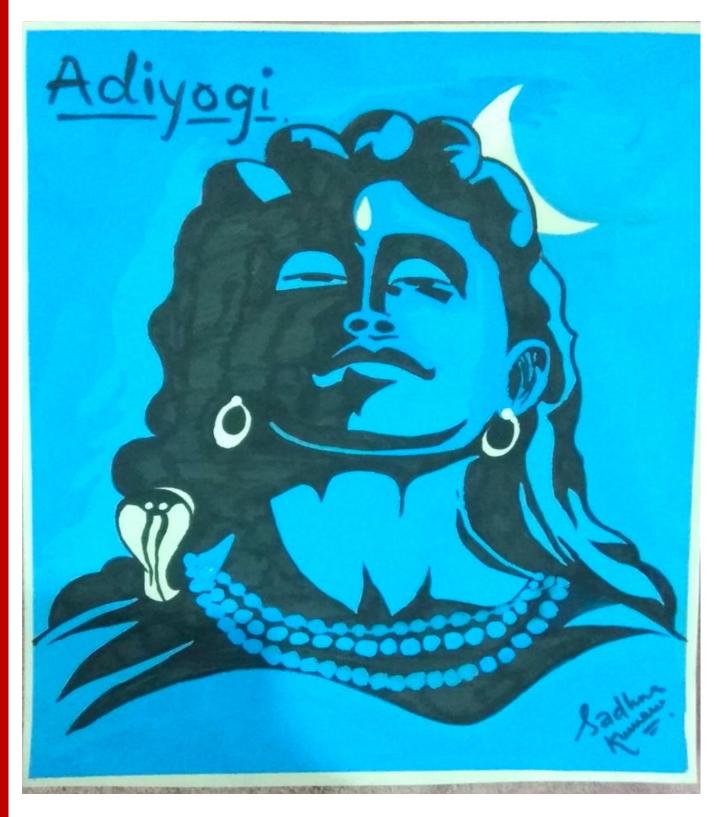


Figure 4: Sketch by Sadhna



Figure 5: Sketch by Sadhna





7/30/22, 4:45 PM

Five students design auto-rechargoable bike - Times of India

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THE TIMES OF INDIA

Five students design auto-rechargeable bike

Jun 20, 2022, 03:14 AM IST



Ramgarh: A five-member team of electrical engineering students in Ramgarh Engineering College located in Murubanda village under Chitarpur block has come up with a power saver and auto-rechargeable electric bike using an old motorcycle at an estimated cost of Rs 30,000.

Jai Kumar (23), a fourth-year student, said the team used two lithium ion batteries of 60 amp power that will automatically charge the vehicle while driving.

"We have connected dynamo and two lithium ion batteries with a wheel of the bike. Batteries start charging automatically when the wheel moves. The bike can run approximately 80km at a stretch," he added.

Other team members in this innovation include Ajay Kumar, Vikram Soren, Amit Kumar Rajak and Kalipado Paramanik. They demonstrated their bike named 'Stark Rider' at the college.

Vice-principal of the college, Nazmul Islam, was also present.

Kumar said, "We have included a power-saving and an over-heating protection system in the bike. The performance of the bike can be extended to 300km at a stretch on installation of more powerful batteries and a dynamo."

The vice-principal said Kumar and his team was assisted by head of the electrical engineering department Arunabha Datta.

https://timesofindia.indiatimes.com/city/ranchi/five-students-design-auto-rechargeable-bike/articleshowprint/92324050.cms

रामगढ़ इंजीनियरिंग कॉलेज में इनोवेशन एवं स्टार्ट अप प्रतियोगिता का आयोजन किया गया

जोहार झारखंड/वजह तुल्लाह।

रामगढ। झारखंड सरकार द्वारा स्थापित और पीपीपी के तहत टेक्नो इंडिया समृह द्वारा संचालित मुरुबंडा में स्थित रामगढ इंजीनियरिंग कॉलेज को एमएचआरडी द्वारा संस्थान नवाचार परिषद 4.0 से मान्यता दी गई है। अखिल भारतीय में 645 संस्थान में से रामगढ इंजीनियरिंग कॉलेज का चयन किया गया है। आरईसी को पहले भी सिविल और इलेक्ट्रॉनिक्स और संचार विभाग में एनबीए से मान्यता प्राप्त है। इसे भारत सरकार, स्ब्बहष्टऋध द्वारा ग्रीन चैंपियन अवार्ड भी मिला है। कॉलेज को खङ्क में पूरे भारत में 73 वां स्थान दिया गया है और उसे (सिल्वर बैंड-इंस्टीट्यूशन ऑफ एक्सीलेंस) 2022 मिला है। कौशल विकास के लिए बॉश के साथ भी भागीदारी की गई है। संस्थान की ओर से रामगढ़ इंजीनियरिंग कॉलेज में इनोवेटिव काउंसिल इनोवेशन एंड स्टार्ट अप प्रतियोगिता का आयोजन किया गया। इस प्रतियोगिता में सभी पांच विभागों के अंतिम वर्ष के छात्रों ने अपने अभिनव कार्यों को दिखाया है। इस प्रतियोगिता में 12 परियोजनाओं को उत्कृष्टपरियोजना दी गई, जो समाज और देश के विकास के लिए फायदेमंद होगी। रामगढ इंजीनियरिंग कॉलेज के छात्रों द्वारा तैयार किए गए विभिन्न प्रोजेक्ट्स के नाम नीचे दिए गए हैं- 1) पावर सेवर और ऑटो चार्जेबल इलेक्ट्रिक बाइक 2) सौर ऊर्जा हाइब्रिड इलेक्ट्रिक वाहन 3) स्मार्ट फोन नियंत्रित सोलर फ्लोर वैक्यम क्लीनर। 4) स्वचालित गेट रेलवे नियंत्रण प्रणाली 5) वॉयस असिस्टेंट 6) आईओटी आधारित स्मार्ट सिंचाई प्रणाली। 7) इमोशन बेस्ड म्यजिक सिस्टम 8)सौर घास कटर





9) 360 डिग्री घूर्णन स्वचालित फाइबर सुरक्षा प्रणाली। 10) स्मार्ट दरवाजा 11) फाइबर सुदृढीकरण कंऋीट। इस प्रतियोगिता में शीर्ष तीन परियोजनाओं को पुरस्कृत किया गया। वे थे 1) ऑटो चार्जेबल प्रोजेक्ट जिसे जय कुमार, अजय कुमार, विक्रम सोरेन, अमित कुमार, चौथे वर्ष के कालीप्रभु प्रमाणिक ने अरुणाभा दत्ता और शालिनी मिश्रा के मार्गदर्शन में बनाया था। 2) दूसरा सबसे अच्छा प्रोजेक्ट हाइबिड इलेक्ट्रिक वाहन था जिसे अमित कुमार मेहता, जय बेलदार, जितेंद्र पाल, प्रियदर्शिनी पीयूष, रंजन कुमार, सोहित गौरव, उत्सव मुकुल, चौथे वर्ष के आशीष कुमार ने गाइड अरुणाभा दत्ता के मार्गदर्शन में किया। 3) तीसरी सबसे अच्छी परियोजना अमित महतो, जितेंद्र नायक, सुनील कुमार, चौथे वर्ष के विशाल चौहान गाइड श्री के तहत सौर घास काटने वाला था। आलोक कुमार। इसका उद्घाटन रामगढ़ इंजीनियरिंग कॉलेज के वाइस प्रिंसिपल डॉ. नजमुल इस्लाम ने किया. ।उन्होंने उन सभी छात्रों

को बधाई दी जिन्होंने इन परियोजनाओं को सफल बनाने में कड़ी मेहनत की है। वाइस प्रिंसिपल और आईआईसी के अध्यक्ष डॉ नजमूल इस्लाम ने कहा कि एनबीए मान्यता प्राप्त करने के बाद कॉलेज को समाज के लाभ के लिए काम करके एमजीएनसीआरई भारत सरकार द्वारा ग्रीन चैंपियन पुरस्कार भी मिला। इस साल रामगढ इंजीनियरिंग कॉलेज ने भी परे भारत में एमएचडब्ल्य में 73वां रैंक प्राप्त किया। शिक्षा मंत्रालय के तहत इनोवेशन और कॉलेज की शुरुआत को देखते हुए इनोवेशन काउंसिल ने रामगढ इंजीनियरिंग कॉलेज को 4.0 बैंड में चिह्नित किया है। इस कार्य को पुनन आगे बढाने के लिए महाविद्यालय में इस प्रकार की प्रतियोगिता का आयोजन किया जायेगा ।जिसमें अगले वर्ष अधिक से अधिक नवीन प्रकार के नवीन कार्य प्रस्तृत किये जायेंगे। आईआईसी के संवाहक प्रोफेसर अरुणाभा दत्ता ने कहा है कि इस परियोजना में जिस भी छात्र ने काम किया है, सभी परियोजनाएं बहुत ही नवीन हैं और इसका सीधा लाभ समाज के विकास को मिलेगा। अगले चरण में, परियोजना के लिए पेटेंट लागू किया जाएगा। इस आयोजन के लिए रामगढ इंजीनियरिंग कॉलेज की प्राचार्य डॉ. श्राबनी राय, वाइस प्रिंसिपल डॉ.नजमल इस्लाम, अभिनाबा विश्वास, अरुणाभा दत्ता, पीयुष मंडल, श्री सुगन अभिषेक मुंडू, राजीव रंजन, इस पहल में श्रीराम साहू, देब कुमार चटर्जी, सिकंदर दास, नीलेश कुमार, विशाल कुमार साव, कोमल कुमारी शामिल थे। रामगढ़ इंजीनियरिंग कॉलेज के प्रिंसिपल मैडम, वाइस प्रिंसिपल और सभी संकायों ने छात्रों के अभिनव कार्य की सराहना की।

प्रोजेक्ट्स को सफल बनाने में स्टूडेंटस का कड़ी मेहनत : वाइस प्रिंसिपल

रामगढ़ इंजीनियरिंग कॉलेज में शनिवार को इनोवेटिव काउँसिल इनोवेशन एंड स्टार्ट अप प्रतियोगिता का आयोजन

झारखण्ड न्यूज24 रामगढ प्रिंस वर्मा

रामगढ इंजीनियरिंग कॉलेज में शनिवार को इनोवेटिव काउंसिल इनोवेशन एंड स्टार्ट अप प्रतियोगिता का आयोजन किया गया। जिसमें सभी फैकेल्टी के फाइनल ईयर के स्ट्डेंट ने अपने प्रोजेक्ट का प्रदर्शन किया। प्रतियोगिता में 12 प्रोजेक्ट का चयन किया गया। प्रिंसिपल श्रवणी रॉय ने बताया यह प्रोजेक्ट्स समाज और देश के विकास के लिए फायदेमंद होगी। प्रतियोगिता में पावर सेवर और अश्वटो चार्जेबल इलेक्ट्रिक बाइक बनाने वाले जय कुमार, अजय कुमार, विक्रम सोरेन, अमित कुमार, चौथे वर्ष के प्रथम रही। द्वितीय स्थान रू सौर ऊर्जा हाइब्रिड इलेक्ट्रिक वाहन कश्चलेज के वाइस प्रिंसिपल डॉ.



रूअमित कमार मेहता, जय नजमल इस्लाम ने किया। उन्होंने बेलदार, जितेंद्र पाल, प्रियदर्शिनी उन सभी स्ट्डेंट्सको बधाई दी, पीयूष, रंजन कुमार, सोहित जिन्होंने इन प्रोजेक्ट्स को सफल गौरव, उत्सव मकल, चौथे वर्ष स्थान रू स्मार्ट फोन नियंत्रित राय. सोलर फ्लोर वैक्युम क्लीनर में अरुणाभा दत्ता, शपीयूष मंडल, अमित महतो, जितेंद्र नायक, स्गन अभिषेक मुंडू, राजीव सुनील कुमार, चौथे वर्ष के रंजन, श्रीराम साह, देवकुमार विशाल चौहान की टीम रही। चटजह्न, सिकंदर दास, नीलेश कालीप्रभ् प्रमाणिक की टीम इससे पूर्व, कार्यक्रम का उद्घाटन कुमार, विशाल कुमार साव, उद्घाटन रामगढ इंजीनियरिंग कोमल कुमारी मौजूद थीं।

बनाने में कड़ी मेहनत की है। के आशीष कुमार, जबकि तृतीय मौके पर प्राचार्य डश्च. श्राबनी अभिनाबा विश्वास.

JHARKHAND NEWS24





Ramgarh Engineering College

(Estd. By Govt. of Jharkhand &Run and Managed by Techno India under PPP)

Project on Unmanned Ground Vehicle Using a GSM Network with Microcontrollers

Report submitted in partial fulfilment of the degree of B.Tech
In

Electronics and Communication Engineering

SUBMITTED BY:

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GUIDED BY: Miss. PRIYANKA SAHA

ABSTRACT

Now-a-days, a lot of research is being carried out in the development of USVs (Unmanned surface vehicles), UAVs (Unmanned Aerial Vehicles) etc. Now in case of USVs generally, we have seen that wireless controlled vehicles use RF circuits which suffer from many drawbacks such as limited working range, limited frequency range and limited control. Moreover shooting infrared outdoors on a bright sunny day is often problematic, since sunlight can interfere with the infrared signal. Use of a GSM network (in the form of a mobile phone, a cordless phone) for robotic control can overcome these limitations. It provides the advantages of robust control, working range as large as the coverage area of the service provider in comparison with that of an IR system, no interference with other controllers. This paper presents a Global System for Mobile Telecommunication (GSM) network based system which can be used to remotely send streams of 4 bit data for control of USVs. Furthermore, this paper describes the usage of the Dual Tone Multi-Frequency (DTMF) function of the phone, and builds a microcontroller based circuit to control the vehicle to demonstrate wireless data communication. Practical result obtained showed an appreciable degree of accuracy of the system and friendliness through the use of microcontroller.



PARALYSIS PATIENT HEALTHCARE SYSTEM

Submitted in partial fulfillment of the requirements for the award of the degree

Of BACHELOR OF TECHNOLOGY

Under the Guidance Of Mr. sundaram BY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

RAMGARH ENGINEERING COLLEGE
Estd. By Govt. of Jharkhand &Run and Managed by Techno India under PPP
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JUNE- 2019

Abstract

Hospitals and NGO's, serves disabled and paralytic patients .who have their whole or partial body disabled by paralysis attack. These people in most cases are not able to convey their needs as they are neither able to speak nor do they convey through sign language due to loss in motor by their brain. Patient monitoring system, a major improvement in hospitality because of its advanced technology .

This system helps disabled person display a message by just simple motion of any part of his body.

The main aim of the project is to implement a low cost reliable system which will help to establish communication between paralytic or disabled patients and a nurse Our project provides a reliable, effective and simple yet important solution to various issues faced by nurses in traditionally communicating with disabled patients.

KUKKY: THE VOICE ASSISTANT

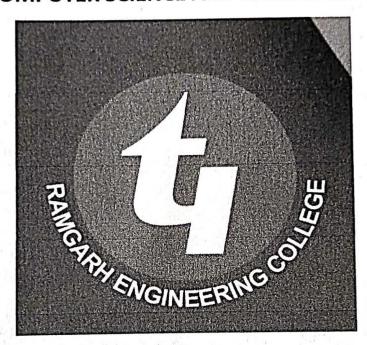
Final year project report

For the partial fulfillment of the Degree

BACHELOR OF TECHNOLOGY

m

COMPUTER SCIENCE AND ENGINEERING



Submitted By

RITIKA DEY (18033440021) & RAHUL KUMAR (18033445010)

UNDER THE SUPERVISION OF Prof. Shreosee Bhattacharya

Ramgarh Engineering College Ramgarh, Ramgarh

(Ramgarh Engineering College Ramgarh also known as REC RAMGARH, is a Public Private Partnership College, affiliated to VBU HAZARIBAGH situated in Murubanda, Jharkhand)

ABSTRACT

The project represents a Python Virtual Assistant which can accept voice and text commands from the user, process them and perform the desired task.

There are many features in the proposed system such as playing music, opening desktop applications, different websites, showing the current time, fetching results from Wikipedia and many more. The major feature of the system is the Resume Builder. The Resume Builder is capable of building a resume of a particular template based on the user's inputs.

The proposed system is very simple, fast and easy to use. It only requires a microphone and internet connection to work. Currently, it can take command only through the English language but can be made applicable to all languages. It has one issue currently it can build a resume on only one template because the python Docx library does not allow multiple templates together. Apart from resume building it allows the users to check Grammar and Spelling mistakes, in addition, it can also show suggestions for correct replacements.

"Interlinking of Rivers in India" - A Study Report

ABSTRACT

The interlinking of rivers involving interbasin water transfer has caught the imagination of common people and the political parties in India. The concept of river linking through canals tunnels or water lifts, for water to flow from one river basin to another and making use of excess water. Although the techno economic feasibility of the gangetic project is questioned by many, it is felt that if India can execute the man moth project such as golden quadrilateral Highway project, this project can also be implemented in a phased manner. From the river linking project the food grain capacity will increase to 450MT to present 250 MT. This is likely to produce an additional 34,000 MW of Electricity. There are many challenges, advantages and disadvantages, but it should be consider for the nation growth.

PROJECT REPORT

ON

"SELF CURING OF CONCRETE"

Abstract

In this study the effect of two different curing-agents has been examined in order to compare them for optimizing the performance of concrete. The first used type is the Pre-soaked lightweight aggregate (leca) with different ratios; 0.0%, 10%, 15% and 20% of volume of sand, and the second type is a chemical agent of polyethylene-glycol (Ch.) with different percentages; 1%, 2% and 3% of weight of cement. In the test programe performed in this study, three cement content; 300, 400 and 500 kg/m³, three different water-cement ratios; 0.5, 0.4, and 0.3, and two magnitudes of silica fume as a pozzolanic additive; 0.0% and 15% of cement weight, were used. The physical properties of concrete were evaluated at different ages, up to 28 days. The concrete specimens are subjected to dryair curing regime (25 °c) during the experiment. The results show that the use of self-curing agent (Ch.) in concrete effectively improves the physical properties compared with conventional concrete. On the other hand, up to 15% saturated leca was effective while 20% saturated leca was effective for permeability and mass loss but adversely affects the sorptivity and volumetric water absorption. Self-curing agent Ch. was more effective than self-curing agent leca. In all cases, both 2% Ch. and 15% leca were the optimum values. Higher cement content and/or lower water-cement ratio leads to more effective results of self-curing agents in concrete. Incorporation of silica fume into concrete mixtures enhances all physical properties.

PROJECT REPORT

ON

"SELF CURING OF CONCRETE"

Abstract

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A PROJECT REPORT

ON

"IMPROVEMENT OF COMPRESSIVE STRENGTH OF PERVIOUS CONCRETE"

ABSTRACT

Pervious concrete is a special type of concrete, which consists of cement, coarse aggregates, water and if required, admixtures and other cementitious materials. As there are no fine aggregates used in the concrete matrix, the void content is more which allows the water to flow through its body. So the pervious concrete is also called as Permeable concrete and Porousconcrete.

There is lotof research work is going in the field of pervious concrete. The compressive strength of pervious concrete is less when compared to the conventional concrete due to its porosity and voids. Hence, the usage of pervious concrete is limited even though it has lot of advantages. If the compressive strength and flexural strength of pervious concrete is increased, then it can be used for more number of applications. For now, the usageof pervious concrete is mostly limited to light traffic roads only. If the properties are improved, then it can also be used for medium and heavy traffic rigidpavements also. Along withthat, the pervious concrete eliminates surface runoff of storm water, facilitates the ground water recharge and makes the effective usage of availableland.

The main aimof our project is to improve the strength characteristics of pervious concrete. But it can be noted that with increase in strength, the permeability of pervious concrete will be reduced. Hence, the improvement of strength should not affect the permeability property because it is the property which serves its purpose.



ABSTRACT

one of the world most widely used Concrete construction material. However, since the been early 1800's, has it known that concrete is weak in tension. Weak tensile strength combined with brittle behavior result in sudden tensile failure without warning. This is obviously not desirable for any construction material. Thus, concrete requires some form of tensile reinforcement to compensate its brittle behavior tensile and improve its strength and strain capacity structural to be used applications. Historically, steel has been used as the material of choice for tensile reinforcement in concrete. Unlike conventional reinforcing bars, which are specifically designed and placed in the tensile zone of the concrete member, fibers are thin, short and distributed randomly throughout the concrete member. Fibers are commercially available and manufactured from steel, plastic, glass and other natural materials.

The paper identifies the problems faced in the applications of conventional concrete design and the possibilities to deal with it using steel and glass fiber reinforcement in the mix design. The replacement of cement by these fibers, in different ratios, has produced a more durable concrete which in application in most countries. The addition of these fibers into concrete can dramatically increase the compressive strength, tensile strength and split tensile strength of the concrete. Glass fibers have high tensile strength and fire-resistant properties thus reducing the loss of damage during fire accidents whereas steel fibers are used to prevent/control plastic and drying shrinkage in concrete and significantly increases its flexural toughness, the energy absorption capacity, ductile behavior prior to the ultimate failure, reduced cracking, and improved durability. Hence a review of these studies is done and conclusions are drawn.



Ramgarh Engineering College

(Estd. by Govt. of Jharkhand and Run by Techno India Under PPP) Approved by AICTE, New Delhi and Affiliated to JUT, Ranchi

ISO 9001: 2015 Certified Institute



PROJECT-II REPORT

on

Smart Irrigation System Using IoT

Submitted in partial fulfillment of the requirement for the award of Degree for Bachelor of Technology

Computer Science and Engineering

Submitted by:

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Under the Guidance of

Mr. Ashim Kumar Mahato Head of the department, Dept. of CSE, REC

Department of Computer Science and Engineering 2018-2022

India is mostly a farming country. For most Indian families, agriculture is their primary source of income. It is critical to the growth of agricultural nations. Agriculture accounts for roughly 16% of overall GDP and 10% of total exports in India. Agriculture's primary resource is water. Irrigation is one means of supplying water, although it can waste a lot of water in some circumstances. As a result, we have presented a project termed autonomous irrigation system using IoT to save water and time in this area.

We use sensor such as soil moisture sensors, to detect the various parameters of the soil, and the land is automatically irrigated based on the soil moisture value by turning on/off the irrigation system motor.

The difficulties where IoT may help include livestock monitoring, conservation monitoring, and plant and soil monitoring. Agriculture concerns are addressed through creative IoT applications, which improve the quality, quantity, sustainability, and cost-effectiveness of agricultural output. Today's large and small farms may use the Internet of Things to remotely monitor sensors that detect soil moisture, crop development, and pests, as well as manage smart linked harvesters and irrigation equipment. This project intends to automate the watering process while monitoring soil factors such as soil moisture. A microcontroller is used to make decisions. When there is a variation from the expected values, the user receives a text message alerting them to the field.

VIRTUAL MEDICAL HOME

Project Progress Report

SUBMITTED IN PARTIAL FULFILLMENT OF THE

REQUIREMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE & TECHNOLOGY

Submitted By

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Under the guidance of

Mr. Bhaskar Das

Head of Department, Department of CSE



Department of Computer Science and Engineering Ramgarh Engineering College, Ramgarh

The Project is aimed at providing essential medical services to users irrespective of their locations. This project is also helpful at generating a patient billing software system that is of importance to a hospital. This System maintains the vital information of users, their profiles, their functionalities etc. The System can be viewed as an online hospital service provider. Information about the patient and the charges to be paid is also stored. The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.

The system provides the information related to the online appointments made by the patients.

The appointments made by the patient can be viewed by the respective physicians. By using this system we can prepare all bills pending to be paid by a patient before the patient's discharge.

This system is providing the facility of viewing all information about patients details, their admit time and the amount to be paid based on the treatment given. Keep track of latest developments happening in the medical technologies. Authentication is provided for this application only registered users can access.

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Fabrication of Abrasive Jet Machine

Rajeev Ranjan

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Kumar Gaurav, Nitant Kachhap, Rajdeo Banra, Shubham Kumar, Kumar Agastya Department of Mechanical Engineering, B-Tech Final Year Student, Ramgarh Engineering College Ramgarh, Jharkhand, india

Abstract: Abrasive Jet Machining (AJM) is the process of material removal from a work piece by the application of a high speed stream of abrasive particles suspended in a gas medium from a nozzle. The material removal process is mainly caused by brittle fracture by impingement and then by erosion. The AJM will chiefly be used to cut shapes, drill holes and de-burr in hard and brittle materials like glass, ceramics etc. In this project, a model of the Abrasive Jet Machine was designed using CAD packages like AutoCAD and CATIA. Care was taken to efficiently use the available material and space. The machine was fabricated in the institute workshop with convectional machine tools like arc welding machine, hand drill, grinding machine using commonly available materials like mild steel sheet and rod, aluminum sheet, glue, polythene sheet ,glass fiber which are commonly available in the local market. Care has been taken to use less fabricated components, because, the lack of accuracy in fabricated components would lead to a reduced performance of the machine. The machine was be automated to have 3 axes travel using microcontroller and driver arrangement along with stepper motor. The different functional components of AJM are the machining chamber, work holding device, abrasive drainage system, compressor, air filter and regulator, abrasive nozzle, and mixing chamber with cam motor arrangement. The different components are selected after appropriate design calculations

Keywords -- Abrasive, Jet, Machining, nozzle, brittle.



Figure 3: Snapshot of the Project

Supervisor: Rajeev Ranjan, AP, Mechanical Engineering Department

Students: ANKIT KUMAR, AMIT KUMAR & AJIT KUMAR (B.Tech, 2018-2022 Batch)

(Project is selected as three best entries from Mechanical Engineering Department to Institute Innovation Cell for the year 2022)

SMART GATE AUTOMATIC DOOR OPENING AND CLOSING SYSYTEM USING ULTRASONIC SENSORS AND ARDUINO

ABSTRACT

Opening and closing of doors have always been a tedious and boring job, especially in places like; hotels, shopping malls, theaters, etc where a person is always required to open and close the door for visitors. This human involvement can be avoided by automating the process using different sensors like infrared, pressure, ultrasonic, laser etc. In this paper, automatic door control system using Arduino microcontroller was designed. The system combines ultrasonic sensor, motor driver, and Arduino to achieve the desired goal. When the ultrasonic sensor installed at the entrance of the building detects a person or an object within the range of the sensor, a signal is sent to the Arduino microcontroller which controls the motor driver to automatically open the door. The door remains open until the object goes out of range of the sensor and in turn closes the door automatically. The results clearly show that the system is cheap, effective, and a reliable means of opening and closing doors in places like retail stores, super markets, factories and the like.

Keywords: Arduino, Ultrasonic Sensor, Automation, Motor driver, Arduino IDE

SOLAR GRASS CUTTER MACHINE

Supervisor: Mr. Alok Kumar

Students: Amarjeet Mahato, Jitendra Kumar Nayak, Sunil Kumar, Vishal Chouhan

Introduction

In today's world, Automation is a very important part of invention. Presently, diesel operated devices are commonly used for cutting the grass over the lawn. Because of this, there is pollution. The old grass cutters need to be replaced by automated one where system will work for guidance and obstacle detection using battery as a power source. A solar panel will be attached on the top of the robot which will charge the battery. This project aims at building a prototype of robot which is able to cut the grass in lawn. The solar panel is connected to the battery. Battery is in turn connected to a DC Motor. This motor is connected to the blade with the help of T-joints. This makes the blade to move with high speed and cut the grass. This device will help in building of ecofriendly system.

Abstract

The objectives of the proposed work is to the design and construct the automated grass cutting robotic vehicle powered by solar energy which avoids obstacles without the need of human interaction. The system uses 12V batteries to power the vehicle movement motors as well as the grass cutter motor. The system uses a solar panel to charge the battery.

TO STUDY THE INFLUENCE OF PROCESSING PARAMETERS ON THE SURFACE QUALITY OF ALSi10Mg PART BY SLM PROCESS

A PROJECT REPORT

SUBMITTED IN THE PARTIALLY FULLFILMENT OF THE REQUIREMENTS FOR THE AWARD OF DEGREE OF

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING SUBMITTED BY

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RAMGARH ENGINEERING COLLEGE, RAMGARH, JHARKHAND AFFILLATED VINOBA BHAVE UNIVERSITY

UNDER THE GUIDANCE OF SUGAN ABHISHEK MUNDU

ASST.PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING

BATCH: 2016-2020

Direct metal laser sintering (DMLS) is an additive manufacturing technique for the fabrication of net shaped parts directly from computer-aided design(CAD) data by melting together different layers with the help of a laser source. Its application for manufacturing three- dimensional objects represents one of the promising directions to solve challenging industrial problems. This approach permits to extend significantly the freedom of design and manufacture by allowing, for example, to create an object with desired shape and internal structure in a single fabrication step. The design of the part can be tailored to meet specific functions and properties (e.g. physical, mechanical, chemical, biological, etc.) using different materials. This paper presents an investigation of the surface roughness of aluminium samples produced by DMLS. Some input parameters, namely laser power, scan speed, and hatching distance were selected for the investigation. The upper surfaces of the samples were analysed before and after shot peening. The morphology was analysed by means of field emission scanning electron microscope. Scan speed was found to have the greatest influence on the surface roughness. Further, shot peening can effectively reduce the surface roughness. In this paper a DMLS machine was used for robotic lightweight components fabrication in an aluminium alloy. It was observed that DMLS technology not only achieved very interesting mechanical properties, but also can easily promote the development and study of lightweight lattice structures. The range of applications in different fields like space, aviation, automotive and other industries.

PROJECT REPORT IS BASED ON BIDIRECTIONAL SPEED CONTROL OF PMDC MOTOR



Submitted in partial fulfillment of the requirements For the award of the degree IN BACHELOR OF TECHNOLOGY IN ELECTRICAL ENGINEERING

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DIRECT CURRENT MOTOR IS AN IMPORTANT DRIVE CONFIGURATION FOR MANY APPLICATIONS ACROSS A WIDE RANGE OF POWER AND SPEEDS. IT HAVE VARIABLE-SPEED DRIVE. THE GOAL OF THIS PROJECT IS TO CONTROL THE DIRECTION AND SPEED OF DIRECT CURRENT MOTOR.

THIS CIRCUIT CONSIST OF TWO PARTS, THE FIRST PART IS USED TO CONVERT THE INPUT AC SIGNAL INTO DC SIGNAL BY A CENTRE TAPPED TRANSFORMER AND A RECTIFIER. IN THE SECOND PART THE RECTIFIED OUTPUT IS SENT INTO THE IC741N VIA POTENTIOMETER, NOW THE OP-AMP 741N COMPARE AND ACTIVATE ONE TRANSISTOR AT A TIME WHICH DECIDE THE DIRECTION OF ROTATION OF MOTOR. THE 20K PORT IS ACTUALLY A POTENTIAL DIVIDER WHICH LIMITS THE FLOW OF CURRENT TO THE IC. AS WE ROTATE THE KNOB OF PORT IN CLOCKWISE DIRECTION RESISTANCE OF PORT INCREASES DUE TO WHICH VALUE OF CURRENT DECREASES HENCE SPEED OF MOTOR DECREASES LINEARLY. WHEN THE KNOB IS AT MID POSITION THEN THERE WILL BE NO ANY NET CURRENT FLOWING THROUGH THE IC. BECAUSE THEY PROVIDES BALANCE CONDITIONS THAT'S WHY NON OF BOTH (PNP & NPN) WILL OPERATE. HENCE AT THAT TIME MOTOR WILL IN STANDSTILL CONDITION. SIMILARLY WHEN WE CONTINUOUSLY IN CLOCKWISE DIRECTION THEN THE POLARITY OF OUTPUT VOLTAGE WILL CHANGE AND RESISTANCE WILL DECREASES DUE TO WHICH THE VALUE OF CURRENT WILL INCREASES IN OPPOSITE DIRECTION. AND HENCE SPEED OF MOTOR WILL INCREASES IN REVERSE DIRECTION.

THIS KIND MOTORS AN MAINLY USABLE IN TRACTION SYSTEMS, TOYS, INDUSTRIAL MACHINERY, ROBOTICS AND IN DIFFERENT KIND OF CONTROLLING EQUIPMENTS. THIS KIND OPERATION WILL INCREASES THE EFFICIENCY AND RELIABILITY OF THE SYSTEM. IT ALSO HELP TO DECREASE THE RUNNING COST OF THE SYSTEM.



RAMGARH ENGINEERING COLLEGE RAMGARH A PROJECT REPORT ON ANALYSIS OF POWER QUALITY SIGNAL IN TRANSMISSION LINE

Submitted in partial fulfillment of the requirementsFor the award of the degree

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The nonlinear characteristics of various office and industrial equipments connected to the power grid could cause electrical disturbances leading to poor power quality. In many cases the electric power consumed is first converted to different form and such conversion process introduces harmonic pollution in the grid. These electrical disturbances could destroy certain sensitive equipments connected to the grid or in some cases could cause them to malfunction. Consumers are becoming aware of such problems and demand the electricity supplier to maintain a certain quality. The international standards are now in force and it has become the responsibility of the electricity supplier to ensure the power quality. In the huge power network identifying the source of such disturbance without causing interruption to the supply is a big problem. This paper attempts to study the power quality problem caused by typical loads using computer models paving the way to identify the source of the problem. The *power blocked* now available with MATLAB is a useful tool for this purpose, which is used in this study.



RAMGARH ENGINEERING COLLEGE RAMGARH A PROJECT REPORT ON ANALYSIS OF HYBRID TECHNOLOGY IN ELECTRICAL VEHICLE

Submitted in partial fulfillment of the requirements for the Award of the degree

Bachelor of Technology In Electrical Engineering

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UNDER THE GUIDANCE
Mr. ARUNABHA DATTA

DEPARTMENT OF ELECTRICAL ENGINEERING RAMGARH ENGINEERING COLLEGE RAMGARH AFFILIATED TO JHARKHAND UNIVERSITY OF TECHNOLOGY

Electric vehicles (EVs) are a promising technology for achieving a sustainable transport sector in the future, due to their very low to zero carbon emissions, low noise, high efficiency, and flexibility in grid operation and integration. This chapter includes an overview of electric vehicle technologies as well as associated energy storage systems and charging mechanisms. Different types of electricdrive vehicles are presented. These include battery electric vehicles, plug-in hybrid electric vehicles, hybrid electric vehicles and fuel cell electric vehicles. The topologies for each category and the enabling technologies are discussed. Various power train configurations, new battery technologies, and different charger converter topologies are introduced. Electrifying transportation not only facilitates a clean energy transition, but also enables the diversification of transportation's sector fuel mix and addresses energy security concerns. In addition, this can be also seen as a viable solution, in order to alleviate issues associated with climate change. Furthermore, charging standards and mechanisms and relative impacts to the grid from charging vehicles are also presented.











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GOLDEE SADI	×	
MD.FIRDAUS RAZA)	2 C C
	SUMANDEEP SANGAM TOPPO PREMDEEP KUMAR RAJEEV RANJAN SINGH SUBHOJEET KUMAR ANAND PARWIN HEMBROM SANJAY KUMAR SHARMA PIYUSH PRIYADARSHI SATYAM KUMAR MANJEET KUMAR MAHTO VED PRAKASH PATEL PRAMOD KUMAR SATYAM KUMAR GUPTA LALIT KUMAR CHOUDHARY MD.INZAMAM ANSARI BINOD BASKE TOUSIF ANWAR VIVEK HANSDA MD.YUSUF ANSARI BINAY KUMAR MEHTA GOLDEE SADI	VISHWAJEET KUMAR SAGAR RAJWAR ABHISHEK KUMAR 30. SUMANDEEP 31. SANGAM TOPPO 32. PREMDEEP KUMAR RAJEEV RANJAN SINGH SUBHOJEET KUMAR ANAND PARWIN HEMBROM 36. SANJAY KUMAR SHARMA PIYUSH PRIYADARSHI SATYAM KUMAR MANJEET KUMAR MAHTO VED PRAKASH PATEL PRAMOD KUMAR SATYAM KUMAR 42. SATYAM KUMAR GUPTA LALIT KUMAR CHOUDHARY MD.INZAMAM ANSARI BINOD BASKE TOUSIF ANWAR MD.YUSUF ANSARI BINAY KUMAR MEHTA GOLDEE SADI

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3. ANAND KUMAR 22. ROHIT KUMAR 4. ANKIT KUMAR 23. RUBI KUMARI 5. ANKIT KUMAR MEHTA 24. SAKSHI CHAURASIA 6. DEEPAK KUMAR 25. SHANU KUMAR 7. DEEPAK KUMAR YADAV 26. SHIWANGI KUMARI 8. GAURAV CHANDRA 27. SUBHAM KUMAR SINHA 9. GAURAV KUMAR SINHA 28. SUBHASH HANSDA 10. KOMAL KUMARI 29. SUMANT KUMAR ARYA 11. KOMAL KUMARI GUPTA 30. SURAJ KALINDI 12. KOUSHAL BHAIYA 31. SWEETY SHAW 13. PRITI KERKETTA 32. VAISHALI SINGH 14. PRIYA KUMARI 33. AMRITESH KUMAR 15. PUJA KUMARI 34. DIVYA JOSHI 16. RAHUL KUMAR 35. PRABHAT KUMAR 17. RAHUL KUMAR SONI 36. REKHA KUMARI 18. RANI KUMARI 37. BARKHA PRABHA	1.	ABHISHEK PANDEY	20.	RITA KISKU
4. ANKIT KUMAR 5. ANKIT KUMAR MEHTA 6. DEEPAK KUMAR 7. DEEPAK KUMAR YADAV 8. GAURAV CHANDRA 9. GAURAV KUMAR SINHA 10. KOMAL KUMARI 11. KOMAL KUMARI GUPTA 12. KOUSHAL BHAIYA 13. PRITI KERKETTA 14. PRIYA KUMARI 15. PUJA KUMARI 16. RAHUL KUMAR 17. RAHUL KUMAR SONI 18. RANI KUMARI 19. GAURAV KUMARI 19. SUBHAM KUMAR SINHA 29. SUBHASH HANSDA 30. SURAJ KALINDI 31. SWEETY SHAW 31. SWEETY SHAW 32. VAISHALI SINGH 34. DIVYA JOSHI 36. REKHA KUMARI 37. BARKHA PRABHA	2.	AMIT KUMAR	21.	RITA KUMARI SAMAL
5. ANKIT KUMAR MEHTA 6. DEEPAK KUMAR 7. DEEPAK KUMAR YADAV 8. GAURAV CHANDRA 9. GAURAV KUMAR SINHA 10. KOMAL KUMARI 11. KOMAL KUMARI GUPTA 12. KOUSHAL BHAIYA 13. PRITI KERKETTA 14. PRIYA KUMARI 15. PUJA KUMARI 16. RAHUL KUMAR 17. RAHUL KUMAR SONI 18. RANI KUMARI 21. SAKSHI CHAURASIA 22. SHANU KUMAR 23. SUBHASH HANSDA 24. SUBHASH CHAURASIA 25. SHANU KUMARI 26. SHIWANGI KUMAR SINHA 27. SUBHAM KUMAR SINHA 28. SUBHASH HANSDA 29. SUMANT KUMAR ARYA 30. SURAJ KALINDI 31. SWEETY SHAW 32. VAISHALI SINGH 34. DIVYA JOSHI 36. REKHA KUMAR 37. BARKHA PRABHA	3.	ANAND KUMAR	22.	ROHIT KUMAR
6. DEEPAK KUMAR 7. DEEPAK KUMAR YADAV 8. GAURAV CHANDRA 9. GAURAV KUMAR SINHA 10. KOMAL KUMARI 11. KOMAL KUMARI GUPTA 12. KOUSHAL BHAIYA 13. PRITI KERKETTA 14. PRIYA KUMARI 15. PUJA KUMARI 16. RAHUL KUMAR 17. RAHUL KUMAR SONI 18. RANI KUMARI 26. SHIWANGI KUMARI 27. SUBHAM KUMAR SINHA 28. SUBHASH HANSDA 29. SUMANT KUMAR ARYA 30. SURAJ KALINDI 31. SWEETY SHAW 32. VAISHALI SINGH 34. DIVYA JOSHI 36. REKHA KUMAR 37. BARKHA PRABHA	4.	ANKIT KUMAR	23.	RUBI KUMARI
7. DEEPAK KUMAR YADAV 8. GAURAV CHANDRA 9. GAURAV KUMAR SINHA 10. KOMAL KUMARI 11. KOMAL KUMARI GUPTA 12. KOUSHAL BHAIYA 13. PRITI KERKETTA 14. PRIYA KUMARI 15. PUJA KUMARI 16. RAHUL KUMAR 17. RAHUL KUMAR SONI 18. RANI KUMARI 26. SHIWANGI KUMARI 27. SUBHAM KUMAR SINHA 28. SUBHASH HANSDA 29. SUMANT KUMAR ARYA 30. SURAJ KALINDI 31. SWEETY SHAW 32. VAISHALI SINGH 33. AMRITESH KUMAR 34. DIVYA JOSHI 36. REKHA KUMARI 37. BARKHA PRABHA	5.	ANKIT KUMAR MEHTA	24.	SAKSHI CHAURASIA
8. GAURAV CHANDRA 27. SUBHAM KUMAR SINHA 9. GAURAV KUMAR SINHA 28. SUBHASH HANSDA 10. KOMAL KUMARI 29. SUMANT KUMAR ARYA 11. KOMAL KUMARI GUPTA 30. SURAJ KALINDI 12. KOUSHAL BHAIYA 31. SWEETY SHAW 13. PRITI KERKETTA 32. VAISHALI SINGH 14. PRIYA KUMARI 33. AMRITESH KUMAR 15. PUJA KUMARI 34. DIVYA JOSHI 16. RAHUL KUMAR 35. PRABHAT KUMAR 17. RAHUL KUMAR SONI 36. REKHA KUMARI 18. RANI KUMARI 37. BARKHA PRABHA	6.	DEEPAK KUMAR	25.	SHANU KUMAR
9. GAURAV KUMAR SINHA 28. SUBHASH HANSDA 10. KOMAL KUMARI 29. SUMANT KUMAR ARYA 11. KOMAL KUMARI GUPTA 30. SURAJ KALINDI 12. KOUSHAL BHAIYA 31. SWEETY SHAW 13. PRITI KERKETTA 32. VAISHALI SINGH 14. PRIYA KUMARI 33. AMRITESH KUMAR 15. PUJA KUMARI 34. DIVYA JOSHI 16. RAHUL KUMAR 35. PRABHAT KUMAR 17. RAHUL KUMAR SONI 36. REKHA KUMARI 37. BARKHA PRABHA	7.	DEEPAK KUMAR YADAV	26.	SHIWANGI KUMARI
10. KOMAL KUMARI 11. KOMAL KUMARI GUPTA 12. KOUSHAL BHAIYA 13. PRITI KERKETTA 14. PRIYA KUMARI 15. PUJA KUMARI 16. RAHUL KUMAR 17. RAHUL KUMAR SONI 18. RANI KUMARI 29. SUMANT KUMAR ARYA 30. SURAJ KALINDI 30. SURAJ KALINDI 31. SWEETY SHAW 32. VAISHALI SINGH 33. AMRITESH KUMAR 34. DIVYA JOSHI 36. REKHA KUMAR 37. BARKHA PRABHA	8.	GAURAV CHANDRA	27.	SUBHAM KUMAR SINHA
11. KOMAL KUMARI GUPTA 12. KOUSHAL BHAIYA 13. PRITI KERKETTA 14. PRIYA KUMARI 15. PUJA KUMARI 16. RAHUL KUMAR 17. RAHUL KUMAR SONI 18. RANI KUMARI 30. SURAJ KALINDI 31. SWEETY SHAW 32. VAISHALI SINGH 33. AMRITESH KUMAR 34. DIVYA JOSHI 35. PRABHAT KUMAR 36. REKHA KUMARI 37. BARKHA PRABHA	9.	GAURAV KUM <mark>AR SINHA</mark>	28.	SUBHASH HANSDA
12. KOUSHAL BHAIYA 13. PRITI KERKETTA 14. PRIYA KUMARI 15. PUJA KUMARI 16. RAHUL KUMAR 17. RAHUL KUMAR SONI 18. RANI KUMARI 21. SWEETY SHAW 22. VAISHALI SINGH 23. AMRITESH KUMAR 34. DIVYA JOSHI 35. PRABHAT KUMAR 36. REKHA KUMARI 37. BARKHA PRABHA	10.	KOMAL KUMA <mark>RI</mark>	29.	SUMANT KUMAR ARYA
13.PRITI KERKETTA32.VAISHALI SINGH14.PRIYA KUMARI33.AMRITESH KUMAR15.PUJA KUMARI34.DIVYA JOSHI16.RAHUL KUMAR35.PRABHAT KUMAR17.RAHUL KUMAR SONI36.REKHA KUMARI18.RANI KUMARI37.BARKHA PRABHA	11.	KOMAL KUMA <mark>RI GUPTA</mark>	30.	SURAJ KALINDI
14.PRIYA KUMARI33.AMRITESH KUMAR15.PUJA KUMARI34.DIVYA JOSHI16.RAHUL KUMAR35.PRABHAT KUMAR17.RAHUL KUMAR SONI36.REKHA KUMARI18.RANI KUMARI37.BARKHA PRABHA	12.	KOUSHAL BHAIYA	31.	SWEETY SHAW
15. PUJA KUMARI 34. DIVYA JOSHI 16. RAHUL KUMAR 35. PRABHAT KUMAR 17. RAHUL KUMAR SONI 36. REKHA KUMARI 18. RANI KUMARI 37. BARKHA PRABHA	13.	PRITI KERKETTA	32.	VAISHALI SINGH
16.RAHUL KUMAR35.PRABHAT KUMAR17.RAHUL KUMAR SONI36.REKHA KUMARI18.RANI KUMARI37.BARKHA PRABHA	14.	PRIYA KUMARI	33.	AMRITESH KUMAR
17. RAHUL KUMAR SONI 36. REKHA KUMARI 18. RANI KUMARI 37. BARKHA PRABHA	15.	PUJA KUMARI	34.	DIVYA JOSHI
18. RANI KUMARI 37. BARKHA PRABHA	16.	RAHUL KUMAR	35.	PRABHAT KUMAR
1	17.	RAHUL KUMAR SONI	36.	REKHA KUMARI
	18.	RANI KUMARI	37.	BARKHA PRABHA
19. RAVI RANJAN KUMAR <mark>SINGH 38. AFGAN KHAN</mark>	19.	RAVI RANJAN KUMAR <mark>SINGH</mark>	38.	AFGAN KHAN

2015-2019 Alumni batch from Electrical Engineering

1.	VAISALI SOMRA ORAON	27.	PAWAN KUMAR MAHTO
2.	MAMTA KUMARI	28.	MANISHA ORAON
3.	RAJIV RANJAN KUMAR	29.	RAJLAXMI
4.	SHIVAM KUMAR DASOUNDHI	30.	SUMIT SAGAR
5.	DEV KUMAR MAHATO	31.	SARVJEET KUMAR
6.	AAMIR RAZA	32.	RAJ RANJAN KATIYAR
7.	RAJU PRAJAPATI	33.	ASHISH KUMAR DAS
8.	ASHVINI KUMAR RAY	34.	NEHA KUMARI
9.	RAKESH KUMAR	35.	VARSHA RAJAK
10.	PREM KUMAR	36.	RAJESH KUMAR
11.	ZAHIRUL HASAN	37.	MOZAHEED HUSSAIN
12.	KAUSHAL KUM <mark>AR</mark>	38.	ADITYA KUMAR
13.	ARUN KUMAR	39.	VIKASH KUMAR
14.	SATISH RAJWAR	40.	VIVEK KUMAR
15.	RAKESH HANSDAK	41.	DEEPAK KUMAR
16.	NITISH KUMAR MONDAL	42.	NILESH KUMAR RAY
17.	SONU BHAGAT	43.	PRITAM KUMAR
18.	SUNIL KUMAR HEMBR <mark>AM</mark>	44.	NITESH KUMAR
19.	MAHADEO HANSDA	45.	PAWAN KUMAR
20.	SURAJ PRASAD SWARN <mark>KAR</mark>	46.	SURESH KUMAR
21.	MD. SHAHBAZ ALI	47.	AVINASH YADAV
22.	FEBI SAMITA TIRKEY	48.	ABHIHEK VERMAN
23.	RITESH KUMAR RANA	49.	MANISH DHANRAJ
24.	DIGESHWAR MAHTO	50.	SAVITA RANI
25.	ROHIT KUMAR	51.	YASMIN ARA
26.	PRABHA KUMARI	52.	NIRMALA RAJSHREE DIKSHA
20.	PRABHA KUMARI	32.	NIRMALA RAJSHREE DIKSHA

2016-2020 Alumni batch from Electrical Engineering

1.	RAJAT KUMAR SAINI	32.	SAURBH KUMAR
2.	GAUTAM KUMAR	33.	AKASH GHOSH
3.	ALOK RANJAN	34.	ANKIT KUMAR PANDEY
4.	RANVIR SINGH	35.	INDRAJEET KUMAR CHAUDHARY
5.	UJJWAL KUMAR	36.	SURAJ KUMAR BAURI
6.	SUSHMITA SUMAN	37.	DHARAMVEER KUMAR
7.	RAHUL KUMAR MAHTO	38.	HIMANSHU KUMAR DANGI
8.	SOURAV KUMAR SINGH	39.	BIKAS MANDI
9.	MAMTA KUMAR <mark>I</mark>	40.	AMRITA KUJUR
10.	RITESH KUMAR	41.	GOSWAMI KUMAR DAS
11.	RAVI RANJAN MEHTA	42.	SHIVA TUDU
12.	SUBHAM KUMAR	43.	AVINASH MAHTO
13.	KHUSHWANT KUMAR	44.	VIJAY SOY
14.	VIVEK KUMAR	45.	RUPESH KUMAR
15.	RAJESH KUMAR	46.	UTTAM KUMAR CHOUDHARY
16.	UTTAM PRAKASH SINGH	47.	SANJAY KUMAR
17.	MONU MURMU	48.	SANJAY KUMAR
18.	SUNIL TUDU	49.	ROHIT KUMAR
19.	RAVI KUMAR	50.	RISHABH PRASAD
20.	SHIV NARAYAN PRASAD	51.	KALI CHARAN MANJHI
21.	SHUBHAM KUMAR DAS	52.	KARAN PRASAD
22.	BANTI KUMAR	53.	SUMIT KUMAR TUDU
23.	RAVI KUMAR MAHTO	54.	SANDEEP KUMAR
24.	SUMIT KUMAR	55.	SHRAVAN KUMAR
25.	HARESHWAR PRASAD	56.	HARISH KUMAR SAHU
26.	TARUN KUMAR	57.	AMIT KUMAR
27.	SARITA KUMARI	58.	SANGITA KUMARI
28.	SHOAIBULLAH	59.	RAJEEV KUMAR
29.	VIVEK PRASAD	60.	MANOJ KUMAR MURMU
30.	ARBIND KUMAR YADAV	61.	SUMANT KUMAR
31.	AJESH KUMAR		

2017-2021 Alumni batch from Electrical Engineering

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1.	SOURAV NATH	25.	PRIYANKA RANI
2.	KALPANA BARNWAL	26.	PANKAJ KUMAR
3.	AKASH	27.	UDAY KUMAR
4.	SHAH FAISAL	28.	ASHIFA PERWEEN
5.	RITESH KUMAR	29.	NIDHI
6.	RAHUL HEMBROM	30.	ANKIT KUMAR
7.	VISHAL ORAON	31.	MANJU KUMARI HEMBROM
8.	NAROTTAM KUMAR SAW	32.	AKASH KUMAR CHOUDHARY
9.	ANISH INDWAR	33.	DIWAKAR
10.	KUMARI NEE <mark>LAM</mark>	34.	VISHAL BHUSHAN
11.	ALKA KUMAR <mark>I</mark>	35.	VIKASH KUMAR SAW
12.	SHUBHAM SHRESHTH	36.	SUSHIL KUMAR
13.	ANTESH MUKHERJEE	37.	ANUPRITA TOPPO
14.	MEENA SOREN	38.	DAVID JOHN JOJO
15.	ARUN KUMAR SOREN	39.	SAURABH SAHU
16.	SOURAV KUMAR	40.	AMIT KUMAR MAHTO
17.	MD. MAHMOOD ALAM	41.	VIKASH KUMAR BARNWAL
18.	ROUSHAN RANJAN SI <mark>NGH</mark>	42.	NUPUR
19.	SMRITI JHA	43.	VIKAS KUMAR
20.	RAVI ROSHAN	44.	PREETY KUMARI
21.	BHASKAR SINGH	45.	NEHA KUMARI
22.	ABHISHEK CHANDRA	46.	RISHU RAJ GUPTA
23.	PRIYA KUMARI	47.	SUDHANSHU KUMAR TIWARI
24.	KUNDAN PRASAD	48.	SUDHANSHU RANJAN

2018-2022 Alumni batch from Electrical Engineering

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1.	AKASH KUMAR TUDU	22.	SHIVRAN PRASAD
2.	AMIT CHOUDHARY	23.	SOHIT GAURAV
3.	AMIT KUMAR MEHTA	24.	UTSAV MUKUL
4.	ANKITA KUMARI RAJAK	25.	VISHAL KUMAR BEDIA
5.	AZAD KUMAR MANDAL	26.	VISHAL KUMAR YADAV
6.	DEEPAK KUMAR RAWANI	27.	AMIT KUMAR RAJAK
7.	DEEPAK KUMAR SAW	28.	ASHISH KUMAR
8.	JAY BELDAR	29.	BABLI KUMARI
9.	JITENDRA PAL	30.	JAI KUMAR
10.	KUMAR SHUBHAM	31.	KALI PADO PARAMANIK
11.	MANJEETA MINJ	32.	SATYAM PRAKASH
12.	NITESH KUMAR	33.	SHUBHAM PANDEY
13.	NITISH KUMAR	34.	SONAM KUMARI
14.	PANKAJ KUMAR MAHATO	35.	VIKASH KUMAR
15.	PANKAJ KUMAR MEHTA	36.	VIKRAM SOREN
16.	PRITY ROY	37.	AJAY KUMAR MAHATO
17.	PRIYADARSHI PIYUSH	38.	SOURAV KUMAR
18.	RANJAN KUMAR	39.	AVINASH KUMAR
19.	RANJIT KUMAR	40.	RIYA KUMARI
20.	SATISH KUMAR THAKUR	41.	SAMIR KUMAR RAJWAR
21.	SAURABH KUMAR SWARNAKAR	42.	SURAJ MUNDA
			<u>I</u>

2015-2019 Alumni batch from Mechanical Engineering

			January 1
1.	SAHASTRANSHU PANDEY	32.	AJAY KUMAR
2.	ANISH GAUTAM	33.	PRADEEP KUMAR MAHATO
3.	AMIT KUMAR MANDAL	34.	VICKY KUMAR
4.	PRAKASH KUMAR MAHTO	35.	MOHAN KUMAR MODI
5.	DHANANJAY KUMAR	36.	VIKASH KUMAR
6.	RISHIKESH PRASAD SINGH	37.	MD TANWEER ALAM
7.	NISHANT PRASAD	38.	AMIT SANTHAL MARANDI
8.	SHASHI RANJAN KUMAR	39.	SURAJ KUMAR
9.	BIMAL KISHOR MAHTO	40.	MUKESH MANDAL
10.	PRAKASH KUMAR TIWARY	41.	MITHILESH KUMAR
11.	AKASH KUM <mark>AR NAYAK</mark>	42.	TULSI KUMAR MURMU
12.	SURYAKANT <mark>SHARMA</mark>	43.	RAKESH KUMER UPADHYAY
13.	MANISH KUMA <mark>R RAJ</mark> AK	44.	ABHISHEK BHARDWAJ
14.	SUMAN KUMAR	45.	LITA BASKEY
15.	ANUBHAV KUMAR JHA	46.	RAJEEV PRATAP SINGH
16.	WAQUAR YONUSE	47.	NOORUZZAMAN
17.	ROHIT ORAON	48.	ROHAN RATAN
18.	KESHAB KUNAL TUDU	49.	RINKU KUMAR
19.	MANISH KUMAR	50.	PAPPU KUMAR
20.	HEMANT ORAON	51.	DEEPAK KUMAR JAISAWARA
21.	VIVEK TUBID	52.	MD. IMRAN ALAM
22.	RAJESH SOREN	53.	NITISH KUMAR
23.	RANDHIR KUMAR	54.	ADITYA RAJ
24.	PARASMANI THAKUR	55.	SACHIN KUMAR
25.	ANSHU KUMAR	56.	PRAVEEN KUMAR
26.	AKSHAY KUMAR SINGH	57.	RAHUL KUMAR
27.	RAJESH KUMAR	58.	JAYSURYA KUMAR
28.	MANMOHAN MAHATO	59.	LALU KUMAR MAHTO
29.	SOURABH SUBHAM	60.	KUMAR AGASTYA
30.	KAMAL KISHORE MAHTO	61.	AMIT KUMAR JHA
31.	ABDUL SHAHID		
			l .

2016-2020 Alumni batch from Mechanical Engineering

3. M 4. V 5. H 6. H 7. S 8. A 9. H	RAHUL KUMAR MD DILSAD VIVEK KUMAR RUPESH KUMAR PRASHANT KUMAR SUDHANSHU KUMAR AQUIB ASHAN	32. 33. 34. 35. 36.	MD ASIF AMIN ANOOP KUMAR DAS PRADIP KUMAR
4. V 5. H 6. H 7. S 8. A 9. H	VIVEK KUMAR RUPESH KUMAR PRASHANT KUMAR SUDHANSHU KUMAR	34. 35. 36.	ANOOP KUMAR DAS PRADIP KUMAR
5. II 6. II 7. S 8. A 9. II	RUPESH KUMAR PRASHANT KUMAR SUDHANSHU KUMAR	35. 36.	PRADIP KUMAR
6. I 7. S 8. A 9. I	PRASHANT KUMAR SUDHANSHU KUMAR	36.	
7. S 8. A 9. I	SUDHANSHU KUMAR	-60	PAPPU KUMAR RAJAK
8. A	A STATE OF THE STA	37.	
9. I	AQUIB ASHAN	٥,.	CHANDAN KUMAR
	The state of the s	38.	MD ASHIM SIDDIQUE
10.	RAGHUJEET T <mark>UDU</mark>	39.	UDAY KUMAR KEWAT
	SANJAY SHOME	40.	INZEMAMUL HAQUE
11. I	RISHU RAJ	41.	DEEPAK KUMAR MAHTO
12. I	NANDKISHOR <mark>KUM</mark> AR	42.	PREM KUMAR
13. <i>I</i>	AJAY KUMAR	43.	SHAILENDRA MAHATO
14. U	UJJWAL KUMAR <mark>PRAJAPATI</mark>	44.	SHASHIKANT KUMAR
15. I	RAHUL PAHAN	45.	SURAJ PRAKASH
16. <i>A</i>	ANIMESH KUMAR DUBEY	46.	ASJAD AHMAD
17.	ASHISH RANJAN KUMA <mark>R</mark>	47.	MD.KHALID
18. I	RAHUL KUMAR	48.	DHARMENDRA MUNDA
19.	GOPAL MAHTO	49.	CHITRANJAN KUMAR SINGH
20. I	PAWAN KUMAR CHOU <mark>DHARY</mark>	50.	GAUTAM KUMAR RAJWAR
21. V	VIKASH KUMAR	51.	NITANT KACHHAP
22. I	DEEPAK RAM	52.	KUMAR GAURAV
23. I	MANNU KUMAR	53.	RAJDEO BANRA
24. I	DEEPAK KUMAR	54.	SAKET KUMAR PANDEY
25. I	MANOJ KUMAR SINGH	55.	ARUN KUMAR
26. I	DHARAMBIR BEDIA	56.	SAKET KUMAR
27.	NIKESH KUMAR	57.	SHUBHAM KUMAR
28.	NANDKISHOR RAM	58.	ADITYA KUMAR
29. J	JITENDRA SOREN	59.	RATNESH KUMAR MAHTO
30.	NAVEEN LINDA		

2017-2021 Alumni batch from Mechanical Engineering

1.	ANIL DAS	25.	SUBHASH KUMAR MAHTO
2.	MD. SHAMIM FAIZY	26.	DHARMVEER KUMAR BEDIYA
3.	RISHU RAVI RAJ	27.	KUNAL KUMAR RAJAK
4.	MD. AFZAL	28.	DEEPA KUMARI
5.	SANJEEV DEOGAM	29.	RAMAN KUMAR
6.	VIKKY KUMAR	30.	DEEPAK KUMAR
7.	TARANG MISHRA	31.	SHUBHAM KUMAR TIWARI
8.	ADILANSARI	32.	SOMENDRA KUMAR TIWARI
9.	SURAJ HEMBRAM	33.	VIVEK KR. VAIBHAV
10.	MONULISHA BHARTI	34.	HRISABH RAJ
11.	VINAY MURMU	35.	BALESHWAR KR SAW
12.	ANIVESH KUMAR SINGH	36.	S KUMAR
13.	VIKASH CHAUHAN	37.	RATNESH KR MISHRA
14.	ARVIND KUMAR RAWANI	38.	ALI RAJ ANSARI
15.	SHUBHAM SINHA	39.	NISHANT KUMAR DHAN
16.	RISHIKESH KISKU	40.	RAHUL KUMAR
17.	AKASH KUMAR MAHTO	41.	SANDEEP KUMAR THAKUR
18.	DEEPAK KUMAR	42.	SUMIT VISHWAKARMA
19.	NEHAL KUMAR	43.	CHANDAN MUNDA
20.	PRAVEEN TUDU	44.	PREM CHAND MANJHI
21.	ANUP KUMAR	45.	BISHWAJEET KUMAR
22.	PRASHANT SOURAV	46.	NEHA BANO
23.	RAHUL KUMAR	47.	KUNAL NAG
24.	RAJA AMARJIT KUMAR		

2018-2022 Alumni batch from Mechanical Engineering

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1.	ABHIJEET CHANDRA	23.	ROHIT BANDO
2.	ABHIJIT KUMAR	24.	SAGAR KUMAR MANDAL
3.	AKSHAY KUMAR MAHTO	25.	SHEKHAR KUNKAL
4.	AMAN HANSDA	26.	SHIVENDRA KUMAR MISHRA
5.	AMARJEET MAHATO	27.	SUBHODEEP BANERJEE
6.	ANAND KUMAR TIWARI	28.	SUMIT KUMAR SHARMA
7.	ANKIT KUMAR VERMA	29.	SUNIL KUMAR
8.	ANUJ ROHIT DADEL	30.	VISHAL CHOUHAN
9.	ANUPAM KUMAR SINGH	31.	VISHAL RAJAK
10.	ASHISH KRI <mark>SHNA</mark>	32.	AJIT KUMAR
11.	ASHISH KUMAR	33.	AKASH KUMAR
12.	AWNISH KUMAR	34.	AMIT KUMAR
13.	DASHRATH KUMAR MAHTO	35.	JITENDRA KUMAR NAYAK
14.	DEEPAK KUMAR	36.	NAVIN KUMAR
15.	DEEPAK KUMAR SAHU	37.	SAMEER KUMAR
16.	ISMAIL ANSARI	38.	ANKIT KUMAR
17.	KUNDAN KUMAR	39.	KISHAN KUMAR RANA
18.	MD JAWED ALAM	40.	MITHILESH KUMAR
19.	MOHD RAHMAT HUSSAIN	41.	PREM KUMAR SIDDHARTH
20.	NISHANT KAMAL	42.	RAHUL KUMAR
21.	RAHUL KUMAR	43.	SOURAV KUMAR
22.	RAVIRANJAN KUMAR	120	Ø.