

CENTRAL UNIVERSITY OF JHAKHAND

CENTRE FOR ENERGY ENGINEERING

PLACEMENT BROCHURE BATCH: 2012-17

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CUJ@GLANCE

The President of India gave assent to The Central Universities Act, 2009 that envisages establishing and incorporating universities for teaching and research in the various states. The Central University of Jharkhand came into being under this Act on 1st of March, 2009. CUJ has 7 schools and 22 centres imparting quality education in Science, Technology, Social Science, Languages, Business Management and Journalism & Media Technologies, mostly conducting 5 year integrated courses and PhD programmes.

The Motto: Knowledge to Wisdom

At CUJ, sports attendance is compulsory as is wearing uniforms to class; study tours are organised routinely and community projects are being planned. The attempt is to impart an education that fosters the wish for truth and encourages creativity in order that CUJ students think differently, act with honour to be global citizens owing allegiance to their country and are useful to mankind, ever remembering that they need to transform their knowledge into wisdom.

Vision

Our vision is to create a world class university in every aspect, be it research, teaching, administration or co-curricular activities, to produce world class students ready to excel in every chosen field with honour and uprightness.

Objectives

The objectives of the University are to:

- Disseminate and advance knowledge by providing instructional and research facilities in various disciplines
- Promote innovations in teaching-learning processes and inter-disciplinary studies and research
- Educate and train manpower for the development of the country
- Establish linkages with industries for the promotion of science and technology

CENTRE FOR ENERGY ENGINEERING

Mission

Energy, the elixir of human existence and catalyst for the development of a Nation, being consumed at faster rate than ever, consequently, leading to both depletion of fossil-fuel based resources and deterioration of global environment, calls for a concerted effort to develop different/diverse sustainable energy technologies like solar and its derivatives; to evolve efficient energy technology strategies; to implement the best energy conservation practices; and to produce highly skilled manpower in the field of Energy Engineering through world class teaching and researcher sources and infrastructure

About Centre

The Centre for Energy Engineering(CEE) came into existence in July 2011 under the school of Engineering and Technology. The Centre is committed to the mission and goals of the University for not only Teaching and Research but also overall development of the region and the country by emphasizing on the need of renewable energy technologies and their applications for the common masses. The Centre is currently offering five years integrated M. Tech. program as well as PhD program in Energy Engineering. The first batch of integrated M. Tech. with a strength of 36 students from different parts of the country passed out in 2016. The Centre is in the process of developing new high quality research facility on Energy Engineering under a development and innovation-friendly environment for nurturing and promoting novel ideas with intensive interaction and co-operations at all levels. The Centre of Excellence in Green and Efficient Energy Technology to be established with funding under FAST scheme of Ministry of Human Resources and Development, Government of India is a step in that direction.







"We give you freedom and extend all physical facilities to carry out your own recruitment process at our university campus"

Dear Recruiters

Greetings from CUJ, RANCHI !

It is a great pleasure for me to welcome you to placement activities of our University. Through the pages of this brochure you will get a broad overview of our programmes, activities and the placement process. I take this opportunity to present 30 postgraduates from Centre for Energy Engineering of the Central University of Jharkhand. Pursing our motto 'Knowledge to Wisdom' we strive to the methods of academic inquiry instead of giving priority to the search for knowledge. We also seek to promote wisdom by rational means as wisdom being the capacity to realize what is of value in life, for oneself and for others. Wisdom thus include knowledge but much else besides. A basic task ought to be to help humanity learn how to create a better world. Considering the globalisation of economy that prevails now placement is an important activity of every institution. The Placement Brochure provides the recruiters an insight about qualities of education imparted and expertise of our students relevant to the employer's need.

We give you freedom and extend all physical facilities to carry out your own recruitment process at our university campus. I hope you will find our students very competent and you will visit us again year after year. We welcome your interest in our institution as a source of potential feeder. I wish the students of the Centre for Energy Engineering all the best in their endeavour.

On behalf of Central University of Jharkhand, I invite all the potential recruiters to participate in the placement process of Centre for Energy Engineering

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Prof. Nand Kumar Yadav 'Indu'

Vice-Chancellor

Central University of Jharkhand, Ranchi



MESSAGE FROM

THE HOD

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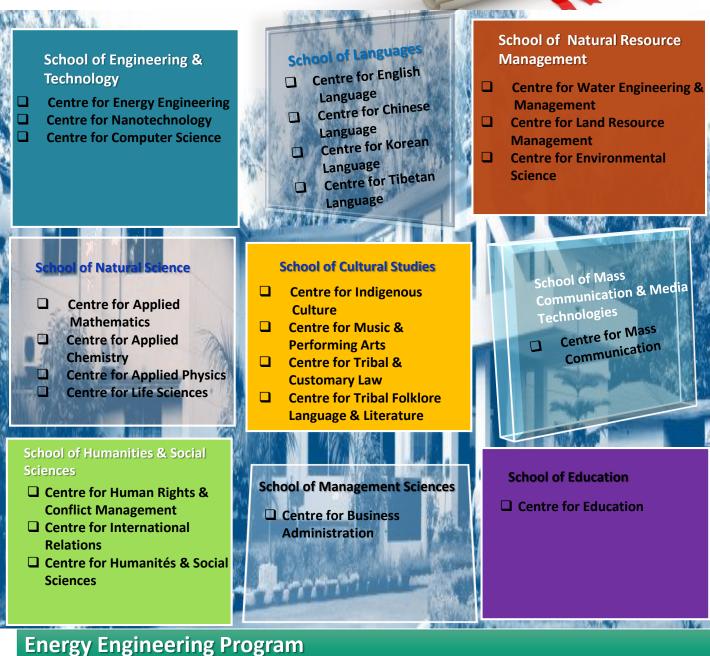
"We have designed the Post Graduate Programme very carefully to develop our students into global organizational leaders"

It is indeed a great pleasure for me to introduce Centre for Energy Engineering, Central University of Jharkhand, Ranchi which is striving consistently for achieving excellence since its inception in 2011. We follow the best practices in teaching and research, a number of teachers have been able to get research and development projects, have good publications to their credit and have organized a few successful extension activities. The five year integrated course in Energy Engineering seeks to inculcate its students through theory and practical courses, the ability to understand, conceptualize, design & develop costeffective renewables, energy efficient devices & systems.

As the first batch is passing through the portal of CUJ this year, we hereby, present the second placement brochure for Integrated M.Tech (Energy Engineering) students 2012-2017 batch. The first batch (2011-2016) students reasonably good placement in institute/organisation of national repute. I look forward further improvement in the scenario this year. we take the opportunity to invite you to our university and urge to interact with our students and faculties to have a first-hand feel about us. We are sure that our students would be able to match your expectations and contribute significantly in achievement of the goals of your

Prof. S.K.Samdarshi Dean, School of Engineering & Head, Centre for Energy Engineering

Schools & Centres



STUDENT'S AREA OF INTERESTS 5 years SOLAR PV Integrated BIOENERGY WASTE TO ENERGY M. Tech SOLAR THERMAL (Energy ELECTRICAL SYSTEM PhD (Energy Engineering) MECHANICAL SYSTEM Engineering) ENERGY AUDITING **ENERGY MATERIAL** EFFICIENT BUILDING WIND ENERGY



5 years Integrated M. Tech (Energy Engineering)

Core Courses

Solar PV Technology

Solar Thermal Technology

Wind Energy Technology

Introduction to Renewable Energy Resources

Energy System Modelling & Analysis

Emerging Renewable Energy Resources

Energy Efficient Buildings

Bio-Energy Systems

Materials Science for Energy Applications

Machine Design for Energy Applications

Electrochemical Energy Conversion

Fuels and Combustion Technology

Open Elective

Renewable Energy Resources

Energy and Environment

Energy and Society

Direct Energy Conversion

Rural Energy Technology

Basics of Energy Management

Elective I

Advanced Energy Storage	
Advanced PV Technology	

Nuclear Power Engineering

Small Hydropower Systems

Organic Photovoltaic Devices

Smart Grid & Hybrid Systems

Advanced Wind energy Systems

Waste to Energy

Mechanical Courses

Theory of Machines

Conventional Power Generation Systems

Steam Power System

I.C. Engines and Gas Turbines

Heat and Mass Transfer Engineering

Refrigeration and Air Conditioning

Fluid Mechanics

Thermodynamics

Numerical Methods & Computational Techniques

Computer programming & Data Structure

Management Courses

Project Management

Energy Auditing & Management

Energy Economics

Program *offered*

Elective II

Power Generation Economics
Grid Integration of Renewable Energy Sources
Computer Aided Power System
Energy Efficient Lighting
Hydrogen Energy
Alternative Fuels for Transportation
Energy and Sustainable Development
Environmental Impact Assessment



Electrical Courses

Electromagnetic Energy Conversion

Electric Circuit Theory and Network

Electrical Power Systems

Power Electronics

Measurement and Instrumentation

Control System

Basics of Electronics

Basics of Electrical Engineering





State of Art Laboratories & Instruments

Green & Efficient Energy Technology Lab

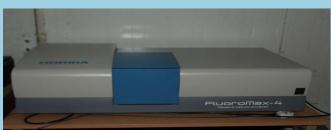




X-RAY DIFFRACTION (XRD)



PHOTOCATLYTIC REACTOR BOX



SPECTROPHOTOMETER



UV-Vis-DRS



Main Laboratories

Basics of Electrical	Basics of Electronics Lab.
Solar Thermal Technology La	b I.C Engine Lab
Solar Photovoltaic lab	Fluid Mechanics Lab
Mechanics of Solid	Strength of Materials Lab

Laboratories using software























SINTERING MACHINE



www.cuj.ac.in/EnergyEngineering

MATCHLESS MENTORS





Prof. S. K. Samdarshi (Professor, Head) PhD (Solar Energy) Years of work experiences: 28 Publications in international journals: 53 Books: 04 Patent: 01 Email: drsksamdarshi@rediffmail.com



Dr. Basudev Pradhan (Assistant Professor) PhD (Organic solar cells)

Years of work experiences: 13 Publications in international journals: 26 Email: basudev.pradhan@cuj.ac.in



Dr. Sachin Kumar (Assistant Professor) PhD (Alternate fuel)

Years of work experiences: 06 Publications in international journals: 27 Patent: 01 Email: sachin.kumar.01@cuj.ac.in



Dr. Bishnu Mohan Jha (Assistant Professor) Ph.D (Manufacturing)

Years of work experiences: 06 Publications in international journals: 07 Email: bishnu.jha@cuj.ac.in



Mr. Partha Sarathi Panja (Assistant Professor) M. Tech (Design and Production Engineering)

Years of work experiences: 30 Publications in international journals: 03 Email: partha.panja@cuj.ac.in



Centre's Updates

Institutional Recognition:

Centre for Excellence in

Green and Efficient Energy Technology (GEET)

(under FAST scheme of MHRD, Government of India, New Delhi)



Ministry of Human Resource Development (MHRD), Govt. of India has selected Central University of Jharkhand (CUJ), Ranchi to setup a Centre of Excellence (CoE) in Green & Efficient Energy Technology (GEET) on the basis of the proposal and presentation evaluated by a team of national and international experts. CUJ is the youngest in the list of 19 prestigious institutions including 7 IITs, 3 IISERs, 2 National Laboratories and 7 others (NITs, and Universities) to get the CoE. All new centres will be devoted to Training and Research in Frontier areas of Science and Technology (FAST). The Centres have the mandate

- To focus on new and emerging technologies, multidisciplinary and translational research relevant to national development goals.
- To trigger an R&D culture in the institution as evidenced by significant increase in applications of research outputs, collaborative and sponsored research, publications in reputed national/international journals and conferences, patents, innovations, commercialized products and Masters and PhD enrolments.
- To bring together high quality researchers of the universities who are active in the complementary areas overlapping energy, water, clean environment and smart materials to develop and aid technologies which are in tune with sustainable development goals of the nation.

Solar Radiation Resource Assessment (SRRA) Station-CEE, CUJ

MNRE, Centre for Wind Energy Technology (C-WET), Chennai

Ministry of New and Renewable Energy (MNRE) has initiated a major project on Solar Radiation Resource Assessment (SRRA) station across the nation to assess and quantify the solar radiation availability along with weather parameters with a view to develop Solar Atlas. Centre for Wind Energy Technology (C-WET), Chennai is implementing the project by installing a network of 51 Solar Radiation **Resource** Assessment (SRRA) station in the first phase in different States resolution using high quality, high equipment/instruments. One of such SRRA station was established top of Administrative building in our Permanent campus under **Centre for Energy Engineering.**







CENTRAL UNIVERSITY OF JHARKHAND TO HELP IN DEVELOPMENT OF 2 MW SOLAR POWER PLANT

An innovative plan initiated by Centre to establish 2MW Grid-connected Roof Top Solar Photovoltaic Power Plant is being considered for subsidy funding by MNRE with other major institutions and organizations of the country. At a Capacity Utilization Factor of 18% in the region it may help generate funds for the University through feeding of extra power the grid.



Research and Development Projects:

Establishment of *Center for Excellence in Green and Efficient Energy Technology (CoE-GEET)* under *FAST scheme* of Ministry of Human Resources Development, New Delhi at Central University of Jharkhand, Ranchi(2014-contd.)

S K Samdarshi(Coordinator and PI) B Pradhan(PI) Sachin Kumar(PI) Development of High-Efficiency Organic Photovoltaic Devices funded under Ramanujan Fellowship by Department of Science and Technology, New Delhi (2013-17) **B Pradhan(PI)**

Development of Highly Efficient Hybrid Solar Cells funded by UGC New Delhi(2014-2016) **B Pradhan(PI**)

Development of highly efficient inverted organic solar cells funded by SERB-DST New Delhi (2014-2017); **B Pradhan(PI)** Production of liquid fuel from mixed waste plastics by thermal and catalytic pyrolysis funded by UGC, New Delhi (2014-16) Sachin Kumar(PI)

Ongoing Research Projects

Name of the Investigator	Title of the project & duration	Amount sanctioned (in ₹ Lakh)	Funding Agency
Dr. Basudev Pradhan	Developmemt of High-efficiency organic photovoltaic devices, 5 years (2013-17)	87.40	SERB-DST
Dr. Basudev Pradhan	Development of highly efficient inverted organic solar cells (2014-2017)	23.00	SERB-DST
Dr. Basudev Pradhan	Development of Highly Efficient Hybrid Solar Cells, 3 years (2014-16)	6.00	UGC
Dr. Sachin Kumar	Production of Liquid Fuel from Mixed Waste Plastics by Thermal and Catalytic Pyrolysis, 3 years (2014-16)	6.00	UGC
Prof. S. K. Samdarshi Dr. Basudev Pradhan	Centre of Excellence on Green and Efficient Energy Technology	250	MHRD



Conference/Seminar/ Training program organized

THE ENERGIEA (An Energy Society of CUJ)



THE ENERGIEA is an energy society formed by the students of centre for energy engineering and came into existence on 13th February 2014. It aims at providing a platform for students to promote awareness about renewable sources of energy for relating energy with other field of science and engineering. It is also dedicated towards organising various awareness programs for conservation of energy.

Akshay Urja Diwas, 2014 By The Energiea

On 20th August 2014, THE ENERGIEA organized a programme on Akshay Urja Diwas, stressing the need for developing and deploying new and renewable energy for supplementing the energy requirement of the country. The inaugural function was graced by Prof Arvind Kumar, head of Mechanical Engineering, BIT, Mesra, as a chief guest in the presence of Prof SK Tiwari, VC (In-charge) of CUJ, Prof Arunabha Datta, dean of academics, Prof SK Samdarshi, head of Centre for Energy Engineering and Mr Shashank, a leading entrepreneur of solar Energy in Jharkhand state besides other faculty members and students. The Logo of this society has a tag line "Power to Power" which means conversion of solar, wind, hydro, geothermal and fossils fuel for efficient energy generation and the people associated with Energiea have the power to generate energy.







Green Energy Congregation 2016

Green Energy Congregation organized by The Energiea and Central university of Jharkhand . GEC 2016 intends to accelerate the growth of renewable power sector in Jharkhand and contribute to the country's sustainable economic development. The first of its kind in Jharkhand. Its aim to bring companies, academia, students and the government on one platform, paving way for the accomplishment of the revised targets in stipulated time and become a part of the green energy revolution taking place all over India in general and particular in Jharkhand.







Two days Training on Solar Radiation Resource Assessment (SRRA) Station-CEE, CUJ

Two days training Programme on "Functioning and Maintenance of Solar Radiation Resource Assessment (SRRA) Station officers" of Eastern Region states, jointly organised by Centre for Energy Engineering, CUJ and Centre for Wind Energy Technology (CWET) of Ministry of New and Renewable Energy, New Delhi, on July 1-2,



One day workshop on solar based robots

Powered by R[®]Roboversity

One innovation each session' <u>#QEmotto</u>. First successful innovation. Lot more to come in this project. Centre for Energy Engineering students created, one of its own kind Energy Free robot.





Industrial Visit





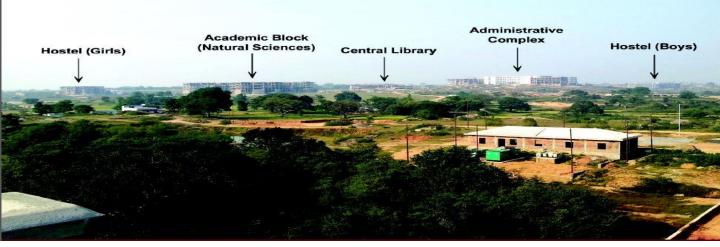


INFRASTRUCTURE

The present campus of the University is located at Brambe, a 25 km drive from Ranchi city, in the State of Jharkhand, India. It located in 45 acres beautiful and vibrant green campus, with classrooms and hostels blending well with the environment. The classroom complex is located inside a mango orchard and the hostels are surrounded by tall Sal trees. In order to preserve the trees, one can find some tree inside the rooms and growing through the roofs. The State Government of Jharkhand allotted a 510-acre land to the University for its Permanent Campus at Cheri-Manatu, about 10 km off main city, construction work has started with a plan to create a campus worth visiting and staying in. The campus is planned to be matchless in its own right by offering an eco-friendly environment for academic pursuit among green architecture and designs, which would beckon scholars to its fold.



New Campus at Cheri-Manatu under construction



Central Library

The Central library, serves as the powerhouse for research and studies for the entire University. Spread over three floors, the library is an invaluable resource with 61,800 books and 20,000 back volumes of periodicals. It is automated with an integrated library software package called Libsys–LSmart and modernized with latest Radio Frequency Identification (RFID) based automation system. The online repository hosted by the library also hosts every paper, dissertation and thesis published by the students and faculty



Computer Centre

The Central Computer Centre offers round the clock services with an uninterrupted power supply to students on the campus with the latest infrastructure supporting research and studies at the campus.

The computer centre hosts the latest IBM servers with a storage capacity of up to 100TB

Campus is having high speed internet facility. The institute has a 24X7 Wi-Fi facility in the University campus for the student and faculty members to avail internet connection at any place in the University, hostel & faculty houses.

GYM/Sports Facility

There are three indoor gyms and a large sports arena with coaches in eight different sports disciplines.

Extracurricular activities is made compulsory. Options would be increased and facilitated.

An outdoor Sports Arena has been developed. This has playing and practice grounds for cricket, football, hockey, volleyball, tennis hard court and badminton. Table tennis is played indoors.

Indoor sports training rooms have also been developed. These include three separate gyms for boys, girls and staffs

Trained coaches have been engaged to train the students and interested staff in yoga, wushu, football, badminton, hockey, volleyball, table tennis.

- The sports training for the CUJ students started in the month of Aug 09 in the Sports Complex in the disciplines: Cricket, Badminton, Hockey, Football, Volleyball, Table Tennis and Wushu.
- Yoga classes on campus held in the morning hours for the students.
- A Physical instructor is always present at every sports session.

Smart Class Rooms

Centre for Energy Engineering providing state of art Smart class rooms with highly equipped upto-date computerized systems to fulfil quality teaching experience

- Ultra Short Throw LCD Projector
- Smart board with Bluetooth Connectivity
- New Generation PC
- Document camera with writing pad
- 120" Motorized Screen with remote control





FACILITIES FOR RECRUITERS

17

Auditorium

There is a 400 seater auditorium at Central University of Jharkhand temporary campus at Brambe

The auditorium provides outstanding acoustics and clear sightlines from all seats.

The auditorium is equipped with lightening system, audio system, Internet facility, Projection System and video conferencing system.





Lecture Halls and Conference Rooms















ADITI ORAON

Email: aditioraonadi123@gmail.com

Area of Interest: Biofuels , Solar Photovoltaic

Project/Work(s) Done: Practices on biofuels from IRS(ONGC, Ahmedabad)



ADYA ISHA Email: adya.isha@cuj.ac.in

> Area of Interest: Waste to Energy Project/Work(s) Done: 1.Triple effect Solar Vapour absorption system, NISE (MNRE), Gurgaon 2. Kitchen waste to biogas, CUJ, JHARKHAND

ASHUTOSH PANDEY Email: ashutosh.pandey@cuj.ac.in

Area of Interest: Solar Cell (Organic, Hybrid, DSSC), Energy Auditing, Wind Energy, Nuclear Energy. Project/Work(s) Done:

 A Study of Variation in Solar Radiation, NIWE(Chennai)
Fabrication, Characterization and Performance Evaluation of Dye-Sensitized Solar cell (DSSC) at CUJ Ranchi.



ASTHA SINGH

Email: astha.singh.01@cuj.ac.in

Area of Interest: Solar Photovoltaic, Solar Thermal, Energy Auditing

Project/Work(s) Done:

- 1. Fabrication of solar cell (CdSe), CUJ, RANCHI
- 2. Performance analysis of Triple Effect Vapour Absorption Machine from NISE (MNRE), Gurgaon

BAPI KUMAR DAS

Email: bapi.das@cuj.ac.in

Area of Interest: Solar Photovoltaic, Green building, Energy Auditing

Project/Work(s) Done:

- 1. Performance Analysis of Crystalline Silicon, CdTe and CIGS Technology Modules in Outdoor Condition, NISE (MNRE), Gurgaon, Haryana
- 2. Efficient Lighting System, CUJ, RANCHI

Research papers: series resistance measurement of solar PV modules using mesh in real outdoor condition in ICAER-2015 at IIT-Bombay.





DEEPAK RAJ

Email: draj8529@gmail.com

Area of Interest: Smart Grid, Power system(Renewable), Machine learning, bio-energy

Project/Work(s) Done:

1<u>.</u>Machine learning algorithm, CUJ, RANCHI. 2.Maximum power point tracking of a solar photovoltaic array using different AI techniques, CUJ, RANCHI.

DHARMVEER KUMAR

Email: dhkwrs@gmail.com

Area of Interest: Solar Photovoltaic, Forecasting and influencing technology in renewable energy, Energy Efficient Building Project/Work(s) Done:

1.Fabrication, Characterization and Performance Evaluation of DSSC,CUJ, RANCHI

2.Performance Analysis of Solar PV . MANIT, Bhopal 3. PTPS, Patratu

Research papers: Microbial Fuel Cell-Methodology and Technology for Green Energy Generation (Under Review) in Renewable and Sustainable energy Reviews Journal

FARAZUDDIN AZLAN

Email: farazuddinazlan@gmail.com

Area of Interest: Fabrication of solar cell-Quantum dots, Dye sensitized solar cell, Solar Photovoltaics., Energy Management

Project/Work(s) Done:

1.*Performance Analysis of Crystalline Silicon, CdTe and CIGS Technology Modules in Outdoor Condition. NISE (MNRE), Gurgaon 2.Synthesis and characterization of ZnO as photoactive sensitizers.*

Research Paper: series resistance measurement of solar PV modules using mesh in real outdoor condition in ICAER-2015 at IIT-Bombay.

JAI SHREE BHARDWAJ

Email: jaishree.cuj@gmail.com

Area of Interest: Solar Photovoltaics, Energy Auditing

Project/Work(s) Done: 1. PAT(Perform Achieve and Trade), BEE, NEW DELHI 2. Industrial Training at Patratu Thermal Power Station



KAJOL

Email: kajolkangan@gmail.com

Area of Interest: Solar energy, Solar Thermal, Power electronic

Project/Work(s) Done: 1. Analysis of concentrated solar cell under various concentration and temperature , IIT Madras









KARUNA PANDEY

Email: pandeykaruna9@gmail.com

Area of Interest: Energy Auditing, Fabrication solar cells, fuel cells and batteries.

- Project/Work(s) Done:
- 1. Characterization of nanomaterials. CUJ, RANCHI
- 2. Characterization and Optimization of Paraboloid Dish Technologies. NISE (MNRE), Gurgaon
- 3. BOKARO STEEL PLANT, Bokaro



KAVISHA SHUNYO

Email: kavisha.shunyo@cuj.ac.in

Area of Interest: Solar PV ,Bio energy

Project/Work(s) Done:

- 1. Characterization and Optimization Of Parabolic Trough Collector, NISE (MNRE), Gurgaon.
- 2. Fabrication of solar cell (CdSe), CUJ, RANCHI



MADHAVI SINGH

Email: madhavi.singh@cuj.ac.in

Area of Interest: Energy auditing, Solar cell (quantum dot solar cell, DSSC), Batteries, supercapacitors

Project/Work(s) Done:

1. characterization of nanomaterials for solar cells. CUJ, RANCHI

2. Characterization and Optimization of "parabolic trough collector. NISE, (MNRE) 3.Industrial training . PTPS, Patratu



MANISH KUMAR

Email: manish.verma.jsr@gmail.com

Area of Interest: Solar PV , Energy Policies & Consulting , Green Buildings

Project/Work(s) Done:

A study of variation of Solar Radiation on tilted surface, NIWE
Demand Side Management, CFD Analysis, building simulation,
PVSyst modelling, Shading analysis using Sketchup, SLD in Autocad



TAHIR AHMED

Email: tahirahmed968@gmail.com

Area of Interest: Solar Photovoltaic, Energy Auditing, Green Building

Project/Work(s) Done:

 Electrical Safety Auditing, Monitoring & Controlling of Energy Power Syste Alstom India Ltd. Durgapur
Energy Efficient Lighting System, CUJ, RANCHI

Research papers: Efficient Power Plant(Paper Under Review)

www.cuj.ac.in/EnergyEngineering

STUDENTS PORTFOLIO







PRANAV ANAND

Email: pranavcuj.95@gmail.com

Area of Interest: Solar photovoltaics, Energy Management, Bioenergy

Project/Work(s) Done:

- 1. Synthesis, characterization Solar Cell DSSC), CUJ, RANCAHI
- 2. Performance Analysis of Crystalline Silicon, CdTe and CIGS Technology Modules in Outdoor Condition, NISE(MNRE), Gurgaon

3. Biogas Production and Characterisation of biogas, Tezpur University Research papers: series resistance measurement of solar PV modules using mesh in real outdoor condition in ICAER-2015 at IIT-Bombay.

PRATUSH SHRIVASTAVA

Email: pravas907@gmail.com

Area of Interest: Solar Photovoltaic systems, Thermodynamics and Electrical Machines

Project/Work(s) Done:

- 1. Energy Efficient Electric Lighting for Buildings, CUJ, RANCHI.
- 2. Study of Assessment of Solar radiation on tilted surfaces", CWET, Chennai.
- 3. Study of Solar Rooftop Policy of Indian States, Azure Power India Ltd. New Delhi.



RATAN KUBER

Email: rattan.kuber@cuj.ac.in

Area of Interest: Grid Connected solar power, Solar Photovoltaic Energy Auditing (Thermal, Steel Plants)

Project/Work(s) Done:

- 1. Designing of Isc Circuit using Op-Amp and performance analysis of Crystalline Silicon, CdTe Technology modules in outdoor conditions. NISE(MNRE), Gurgaon
- 2. Installation of Rice husk based Biomass gasifier plant , (Jharkhand).

Research papers: Series Resistance measurement of Solar PV modules using Mesh in Real Outdoor Condition. At 5th ICAER at IIT Bombay.

SAMEER KUMAR MAURYA

Email: sameermaurya2@gmail.com

Area of Interest: Energy management & auditing, Solar photovoltaics, Energy efficient buildings

Project/Work(s) Done:

- 1. Testing and Data Analysis of Solar Street Lights, CUJ, RANCHI
- 2. Experimental Studies on Microbial Fuel Cell, MANIT, Bhopal, M.P
- 3. Manufacturing, Assembly and Testing of Engine parts used for Diesel

Locomotives, Varanasi (DLW) Research papers: Performance Analysis of Automated

Solar PV Integrated Smart Greenhouse", IJSRD- 2015

SATYA PRAKASH PANDEY

Email: pandey.satya96@gmail.com

Area of Interest : Biofuel, Solar Photovoltaic, Energy Auditing, Waste to Energy

Project/Work(s) Done:

- 1. Kitchen waste to biogas. CUJ, RANCHI
- 2. Production and characterization of biogas . Tezpur University
- 3. Industrial training , (P.T.P.S), Jharkhand









SOURAV RANJAN

Email: saurran@gmail.com

Area of Interest: Solar Photovoltaic, Energy efficient Building, Biofuel

Project/Work(s) Done:

- 1.Biodiesel production from soyabean oil and its quality assurance. IIT-BHU
- 2. Energy efficient Lighting system in Commercial and Household Building CUJ, RANCHI





SHIKHA KUMARI

Email: shikha.kumari.01@cuj.ac.in

Area of Interest: Solar Energy, Energy Auditing and Management, Bio-energy, Energy Efficient Building

Project/Work(s) Done:

- 1. Power Generation and Energy Efficiency and Management-NTPC, Farakka
- 2. Characterization and Optimization of Parabolic Trough Collectors, NISE
- 3. Industrial Training in BPSCL, Bokaro Steel City

SHUBHANGSHU SARDAR

Email: Sardar.shubhangshu70@gmail.com

Area of Interest: Bioenergy, solar photovoltaic

Project/Work(s) Done:

1. Experimental Studies on Microbial Fuel Cell, Solar Greenhouse Automation MANIT, Bhopal, M.P





SOMIKA SINHA

Email: smksinha46@gmail.com

Area of Interest: Growth of silicon nanowires, Energy storage devices, Fabrication of solar cells, Thin film solar cells.

Project/Work(s) Done:

- 1. Vocational training in material handling section, Sintering Plant, Steel Melting ,Shop and Finishing Shops. SAIL-BOKARO
- 2. Characterization and Optimization of Paraboloid Dish Technologies. NISE(MNRE), Gurgaon

SONAM SINHA

Email: sonam.sinha@cuj.ac.in

Area of Interest: Green Building, Project Management, Solar Photovoltaic Energy Management and Energy Efficiency

Project/Work(s) Done:

- 1. Simulation Model for hybrid Renewable Energy System, CUJ RANCHI
- 3. PAT, ENCON at BEE , NEW DELHI
- 2. Study of Operation of Thermal Power Plant and Electricity P.T.P.S. Patratu



SONI KUMARI

Email: sonyraman.cuj@gmail.com

Area of Interest: Solar energy , Energy efficient Building.

Project/Work(s) Done: 1. PAT, ENCON at BEE , NEW DELHI 2. training at thermal power plant, PTPS, Patratu



SONIA SASMAL Email: sst2901@gmail.com

Area of Interest: Biofuels, Solar Photovoltaic, Energy Audit

Project/Work(s) Done:

- 1. Performance analysis of Solar Photovoltaic distillation system, NISE(MNRE)-Gurgaon
- 2. Production of biofuel from non edible seeds and kitchen wastes. CUJ, RANCHI



SWATI BHUSHAN

Email: swatibhushan1108@gmail.com

- Area of Interest: Energy Policies, Energy Management & Auditing, Solar Photovoltaics, Energy Efficient Building Project/Work(s) Done:
- 1.Study of PAT (Perform, Achieve & Trade), BEE, NEW DELHI
- 2. Study of the functioning of the Power Plant [BPSCL, SAIL Bokaro] 3. Hybrid Power Generation [CUJ, RANCHI]



VINAY PRAKASH Email: vinay.prakash@cuj.ac.in

Area of Interest: Solar PV, Energy Efficient Buildings, Energy Management and Consultancy Alternate-Fuels

Project/Work(s) Done:

1. Testing And Data Analysis Of Solar Street Light. CUJ, RANCHI 2. Study of Variation in Solar Radiation On Tilted Surface. NIWE, Chennai

3. A Study of Power System DRDO, Chandipur, Odisha.



VIVEK KRISHNAN

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- Area of Interest: Solar energy, Green Building /Sustainability, Biomass energy, Energy Auditing. Project/Work(s) Done:
- Designing of Isc Circuit using Op-Amp and Performance Analysis of Crystalline Silicon, CdTe Module in outdoor conditions. NISE(MNRE)
 Installation of Rice husk based Biomass gasifier Plant (Jharkhand)
- Research Papers: Series Resistance measurement of Solar PV Modules using

Mesh in Real Outdoor condition, ICAER, IIT-MUMBAI





PAST RECRUITERS

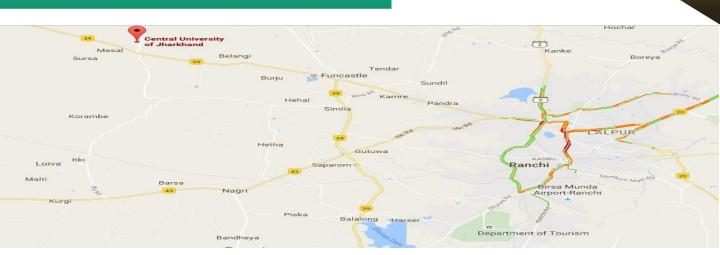


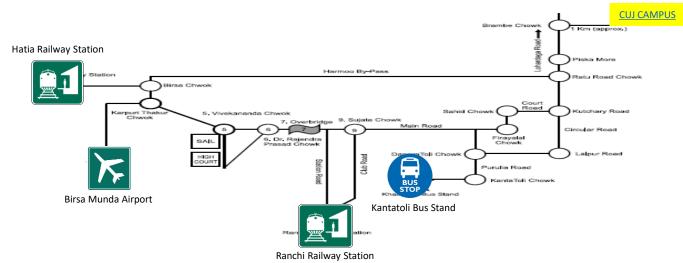


INTERNSHIPS & PROJECTS



HOW TO REACH CUJ





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