

PLACEMENT BROCHURE 2018



Centre for Energy Engineering
Session (2013-2018)

Placement Office:

Dr. Bishnu Mohan Jha

Centre for Energy Engineering,
School of Engineering & Technology,
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✓ ABOUT CENTRAL UNIVERSITY OF JHARKHAND(CUJ)

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, 2-year Masters and PhD programmes.

✓ The Motto: Knowledge to Wisdom

At CUJ, sports attendance is compulsory as is wearing uniforms to class; study tours are organized 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 honor 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

Central University of Jharkhand will be nationally recognized as a leading technological university in the North, providing academic, economic and cultural leadership in the region and producing practical, ready-to-work graduates from a broad range of academic disciplines prepared to excel in a technologically driven world.



FROM VICE CHANCELLOR'S DESK

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 our post-graduates 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 includes 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.

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

Prof. Nand Kumar Yadav 'INDU'
Vice-Chancellor
Central University of Jharkhand, Ranchi

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.



**FROM
HEAD OF DEPARTMENT**

“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 cost-effective renewables, energy efficient devices & systems.

As the third batch is passing through the portal of CUJ this year, we hereby, present the third placement brochure for Integrated M.Tech (Energy Engineering) students 2013-2018 batch. The first batch (2011-2016) and second batch (2012-2017) students secured reasonably good placement in institute/organisation of national repute. I look forward for further improvement in the scenario of placement 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 your goals as well.

Prof. S.K. SAMDARSHI
*Dean, School of Engineering & Technology
Head of Department, Centre for Energy Engineering
Central University of Jharkhand, Ranchi*

ACADEMIC PROGRAMMES

The different programmes at CUJ are designed to build the fundamentals and cater to the industry needs. Exposure to real industry problems is given adequate importance. Postgraduate education has undergone a paradigm shift with the introduction of Minor option and strong emphasis on cross-disciplinary and interdisciplinary opportunities.



POSTGRADUATE PROGRAMMES

5-YEAR INTEGRATED M.TECH. IN ENERGY ENGINEERING

Duration: 5 years

Thesis Duration: 12/6 months

Internship: 2 months

2-YEAR M.TECH. IN ENERGY ENGINEERING

Duration: 2 years

Thesis Duration: 12/6 months

Internship: 2 months

DOCTORAL PROGRAMMES

The Ph.D. programme offered by the institute requires an original doctoral thesis that should result in a significant contribution to that field. The aim of this programme is to keep pace with the expanding frontiers of knowledge and provide research training relevant to the country's technological, social and economic objectives. The average duration of the programme is 4-5 years.

ADMISSION PROCEDURE

The admission procedure for the various programmes at Central Universities ensures that only the very best of students make it to their campuses. The admission to various programmes is carried out through the following highly competitive national level examinations.

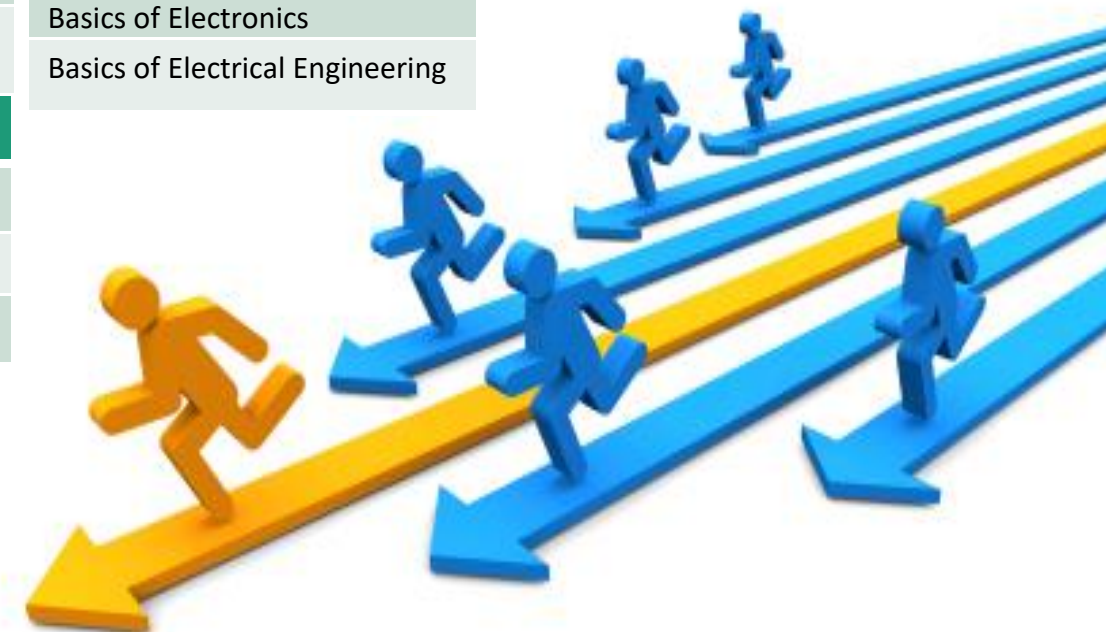
- CUCET (Central University Common Entrance Test)
- GATE (Graduate Aptitude Test in Engineering)

ENERGY ENGINEERING PROGRAM

5-year Integrated M.Tech. in Energy Engineering

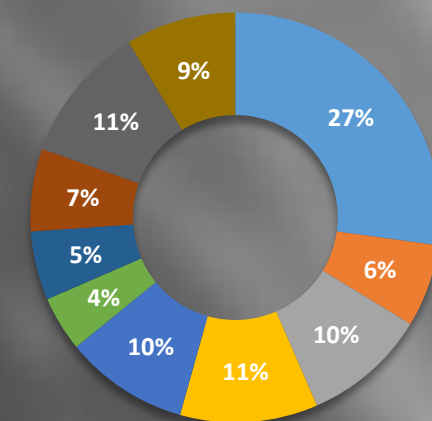


Core Courses	Mechanical Courses	Elective I
Solar PV Technology	Theory of Machines	Advanced Energy Storage
Solar Thermal Technology	Conventional Power Generation Systems	Advanced PV Technology
Wind Energy Technology	Steam Power System	Nuclear Power Engineering
Introduction to Renewable Energy Resources	I.C. Engines and Gas Turbines	Small Hydropower Systems
Energy System Modelling & Analysis	Heat and Mass Transfer Engineering	Organic Photovoltaic Devices
Emerging Renewable Energy Resources	Refrigeration and Air Conditioning	Smart Grid & Hybrid Systems
Energy Efficient Buildings	Fluid Mechanics	Advanced Wind Energy Systems
Bio-Energy Systems	Thermodynamics	Waste to Energy
Materials Science for Energy Applications	Numerical Methods & Computational Techniques	Elective II
Machine Design for Energy Applications	Computer programming & Data Structure	Power Generation Economics
Electrochemical Energy Conversion	Electrical Courses	Grid Integration of Renewable Energy Sources
Fuels and Combustion Technology	Electromagnetic Energy Conversion	Computer Aided Power System
Open Elective	Electric Circuit Theory and Network	Energy Efficient Lighting
Renewable Energy Resources	Electrical Power Systems	Hydrogen Energy
Energy and Environment	Power Electronics	Alternative Fuels for Transportation
Energy and Society	Measurement and Instrumentation	Energy and Sustainable Development
Direct Energy Conversion	Control System	Environmental Impact Assessment
Rural Energy Technology	Basics of Electronics	
Basics of Energy Management	Basics of Electrical Engineering	
Management Courses		
Project Management		
Energy Auditing & Management		
Energy Economics		



DEMOGRAPHICS

Student's Area of Interest



- SOLAR PV
- WIND ENERGY
- SOLAR THERMAL
- BIOENERGY
- WASTE TO ENERGY
- MECHANICAL SYSTEM
- ELECTRICAL SYSTEM
- GREEN BUILDING
- ENERGY AUDIT & MANAGEMNET
- ENERGY MATERIALS
- AUTOMATION

STATE OF ART LABORATORIES & INSTRUMENTS

GREEN & EFFICIENT ENERGY TECHNOLOGY LAB (GEET)



SPECTROPHOTOMETER



UV-VIS-DRS



X-RAY DIFFRACTION (XRD)



PHOTOCATLYTIC REACTOR BOX

NEXT GENERATION PHOTOVOLTAICS LAB



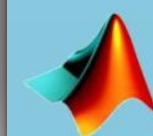
SINTERING MACHINE & PHOTOVOLTAICS TEST UNIT



MAIN LABORATORIES

- Basics of Electrical
- Basics of Electronics Lab
- Solar Thermal Technology Lab
- I.C. Engine Lab
- Solar Photovoltaic lab
- Fluid Mechanics Lab
- Mechanics of Solids
- Strength of Materials Lab

PROFESSIONAL SOFTWARE LABS.



MATLAB



MATCHLESS MENTORS



Prof. S. K. Samdarshi (Professor, Head)

PhD (Solar Energy)
Years of work experiences: 29
Publications in international journals: 53
Books: 04, Patent: 01
Email: drksamdarshi@rediffmail.com



Dr. Basudev Pradhan (Assistant Professor)

PhD (Organic solar cells)
Years of work experiences: 14
Publications in international journals: 26
Email: basudev.pradhan@cuja.ac.in



Dr. Sachin Kumar (Assistant Professor)

PhD (Alternate fuel)
Years of work experiences: 07
Publications in international journals: 27
Patent: 01
Email: sachin.kumar.01@cuja.ac.in



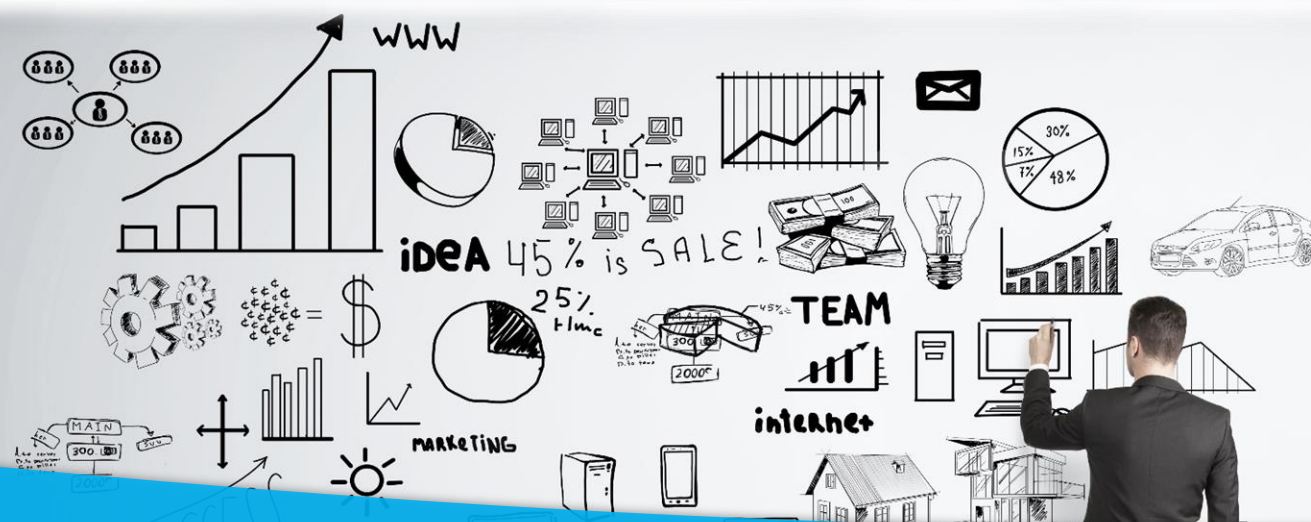
Dr. Bishnu Mohan Jha (Assistant Professor)

Ph.D (Manufacturing)
Years of work experiences: 07
Publications in international journals: 07
Email: bishnu.jha@cuja.ac.in



Mr. Partha Sarathi Panja (Assistant Professor)

M. Tech (Design and Production Engineering)
Years of work experiences: 31
Publications in international journals: 03
Email: partha.panja@cuja.ac.in



Centre Updates

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:

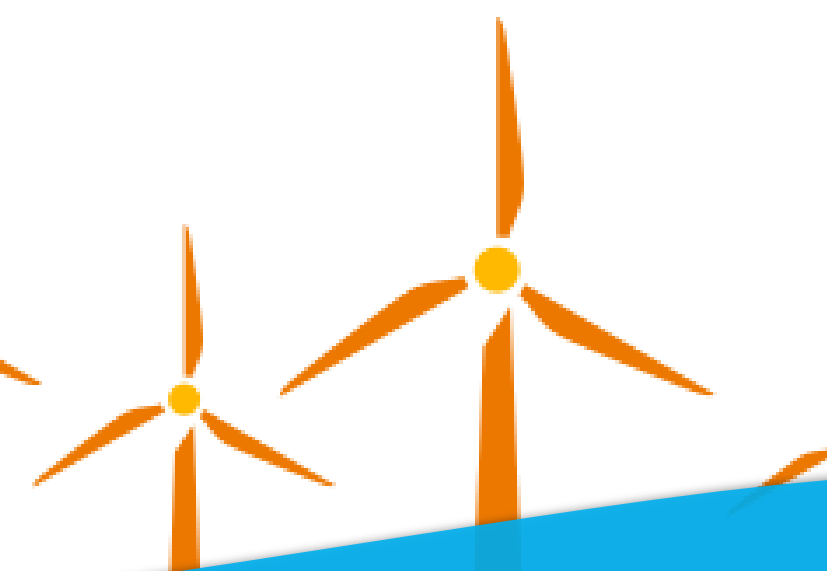


- To focus on new and emerging technologies, multidisciplinary and translational research relevant to national development goals.
- To trigger an R&D culture in the institution as evidenced by significant increase in applications of research outputs, collaborative and sponsored research, publications 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, Centre for Energy Eng., CUJ

Ministry of New and Renewable Energy, National Institute of Wind Energy(NIWE), 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. *National Institute of Wind Energy(NIWE)*, Chennai is implementing the project by installing a network of 51 Solar Radiation Resource Assessment (SRRA) station in the first phase in different States using high quality, high resolution equipment/instruments. One of such SRRA station was established top of Administrative building in our Permanent campus under Centre for Energy Engineering.



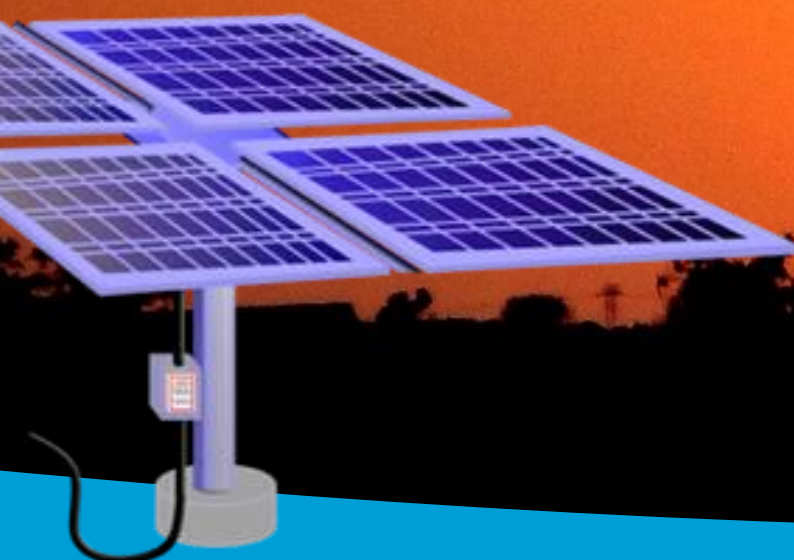
Thrust areas of Research: Solar energy, Energy Materials, Alternate Fuels, Wind energy and Energy Conservation and Management.

ONGOING RESEARCH PROJECTS

Name of the Investigator	Title of the project and duration	Amount sanctioned (in Lakhs)	Funding Agency
Prof. S. K. Samdarshi (Co-ordinator)	Centre of Excellence on Green and Efficient Energy Technology	250.00	MHRD, New Delhi
Dr. Basudev Pradhan	Development 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 under SERC Fast Track Scheme for Young Scientists (2014-17)	23.00	SERB-DST
Dr. Basudev Pradhan	Development of Highly Efficient Hybrid Solar Cells, 3 years(2014-16)	06.00	UGC
Dr. Basudev Pradhan	Investigation of Compositional Engineering for Efficient Perovskite Solar Cells (Co-PI)	100.00	DST-CERI
Dr. Sachin Kumar	Production of Liquid Fuel from Mixed Waste Plastics by Thermal and Catalytic Pyrolysis, 3 years(2014-16)	6.00	UGC
Total		358.00	

CENTRAL UNIVERSITY OF JHARKHAND TO HELP IN DEVELOPMENT OF 2MW 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.



THE ENERGIEA

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- 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 Energeia 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.



WORKSHOP



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



**STRIVE FOR
PROGRESS
NOT FOR
PERFECTION!!**



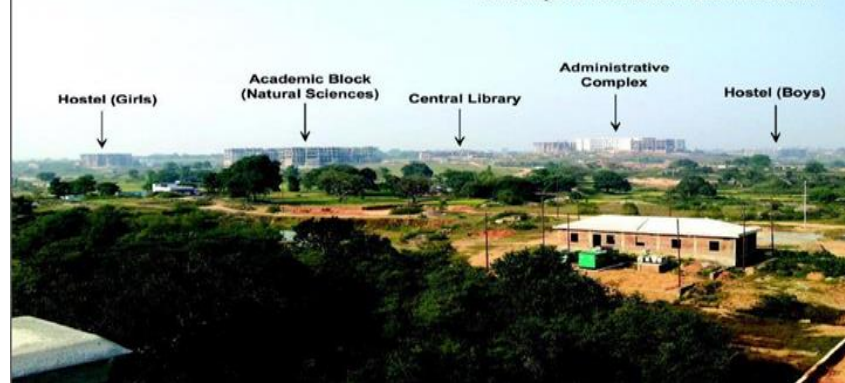
INFRASTRUCTURE



The present campus of the University is located at Brambe, a 25 km drive from Ranchi city, in the State of Jharkhand, India. It is 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



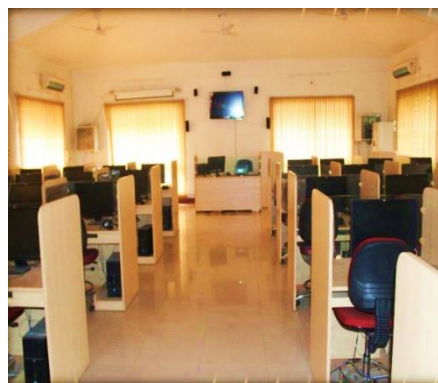
CENTRAL LIBRARY

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.



SMART CLASS ROOMS

Centre for Energy Engineering providing state of art Smart class rooms with highly equipped up-to-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



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. Yoga classes on campus are held in the morning hours for the students. A Physical instructor is always present at every sports session.





LIFE@CUJ



STUDENT BATCH 2013-2018



STUDENT PORTFOLIOS

AMIT MISHRA

Email: amit97086@gmail.com

Area of Interest: Control System, Wind Energy Technology, Algorithms, Programming, Solar Energy.

Projects/Experience:

- Electrical System Intern at Starbru Techsystem PVT. Ltd.
- Industrial Training at JSPL, Patratu.
- “Extraction of Solar cell parameters using I-V curve”, Dr. S.K. Samdarshi , Centre for Energy Engineering, Central University of Jharkhand.

ANIL KUMAR

Email: anil.bittu.ashu@gmail.com

Area of Interest: Renewable Energy.

Projects/Experience:

- Energy Balance, Hybrid Solar & Wind Systems, Centre for Energy Engineering, Central University of Jharkhand.

ANITA KUMARI

Email: anitakumari0302@gmail.com

Area of Interest: CFD Modelling, Energy efficient building, Energy System Modelling and Analysis.

Projects/Experience:

- Study on by-product of coke making technology, CSIR-CIMFR
- Modelling and Analysis of Coal Combustion using CFD, CSIR-CIMFR

ANKITA BHAGAT

Email: ankitabhagat1995@gmail.com

Area of Interest: Energy Auditing & Management, Energy Efficiency, Solar Thermal Technologies, Energy Harvesting and Energy Policies.

Projects/Experience:

- ENCON Measures recommendation to DC's of TPP Sector on the basis of MEA Reports, Bureau of Energy Efficiency, New Delhi.
- Vocational Training on "Generation-Transmission " in Power System Division at I.T.R, D.R.D.O, Chandipur Orissa.
- Alternative Fuel for Green Environment, Central University of Jharkhand.

ANUSHRI SURBHI

Email: surbhi.anushri@gmail.com

Area of Interest: Energy Materials, Solar Photovoltaics, Energy Storage and Conservation Technologies.

Projects/Experience:

- Vocational Training in Bokaro Power Supply Corporation Ltd., Bokaro.
- “Solid Oxide Fuel Cell Research”, Summer Research Fellow (2016), IIT Kanpur, Kanpur City.
- Photocatalytic Study of Energy Materials, GEET Lab., Central University of Jharkhand.
- “Energy materials for Supercapacitors & conducting polymers”, CSIR- Indian Institute of Chemical Technology, Hyderabad.

AVISHEK RAUNIYAR

Email: avishek.rauniyar001@gmail.com

Area of Interest: Polymers, R&D on Energy Materials, Solar Photovoltaics & Solar Thermal (Design, Simulation, Installation & Commissioning), Hybrid Energy System Design, Waste to Energy, Batteries and Supercapacitors, Bio-Energy, Green House Farming System Design and Energy Management & Auditing.

Projects/Experience:

- “Synthesis and Characterization of Glyco-polymers and Poly(ethylene glycol) based Di-block & Tri-Block bio-polymers” & “ Synthesis of Conducting Polymers for Supercapacitor and sensor application”, Polymer and Functional Material Division, CSIR-Indian Institute of Chemical Technology, Hyderabad.
- “1.141MWp Grid-Tied Rooftop Solar PV (Design, Simulation & ROI Estimation) for KDMIPE Campus, Oil and Natural Gas Corporation Limited(ONGC)”, Dehradun.
- ” Home Automation using Arduino”, Centre for Energy Engineering, Central University of Jharkhand, Ranchi.
- Alpha, beta & gamma type Stirling Engine mini-prototype, CEE, CUJ, Ranchi.

BIDISHA NATH

Email: bidishanath1995@gmail.com

Area of Interest: Solar Photovoltaics, Gasification, Waste to energy, Energy Conservation, Energy efficient buildings.

Projects/Experience:

- Hydro-Power Plant Training, Damodar Valley Corporation.
- Gasification technology, CSIR-CIMFR, Dhanbad.
- “Synthesis and Characterisation of Perovskite Solar Cells”, CSIR-CECRI, Karaikudi, Tamil Nadu.

CHANDRAKANT BHARDWAJ

Email: ckbhardwaj.gopu@gmail.com

Area of Interest: Solar PV system designing (Grid connected and Standalone systems)

Projects/Experience:

- Training at 2 MW grid connected solar power plant at Jamuria, West Bengal.
- 500 MW capacity solar PV module manufacturing plant at Waaree, Surat, Gujarat.
- Training of Grid Connected PV System Design and Installation, GSES.

JAGAN MOY MAITY

Email: jagan.cuj@gmail.com

Area of Interest: Solar Photovoltaics system design & installation, Operation and Maintenance, Energy Management, Energy Policies & Solar Cell fabrication.

Projects/Experience:

- “Solder bond Failure mode, its detection and affect in Performance of PV module”, National Institute of Solar Energy (NISE), Gurgaon.
- Renewable (solar) energy potential estimation on TATA MOTORS Ltd., Jamshedpur.
- Fabrication of Organic solar cell, Central University of Jharkhand, Ranchi.
- Vocational Training at Uranium Corporation of India Ltd., Jamshedpur.

STUDENT PORTFOLIOS

JITENDRA SUWASIYA

Email: jitu120893@gmail.com

Area of Interest: Electrical Systems, Fuzzy Logic Systems, MATLAB Simulations.

Projects/Experience:

- Fuzzy Logic Simulation on Load Distribution using MATLAB, Dr. Bishnu Mohan Jha, Central University of Jharkhand.

MD SAJID ANSARI

Email: sajidnsr09@gmail.com

Area of Interest: Energy Management & Auditing, Energy Economics, Solar Photovoltaics, Bio-Energy, Energy Efficient Building, Designing & Engineering & Business Development.

Projects/Experience:

- Application of Pyrolysis Oil in I.C. Engine, Engine Modification to Run with Pyrolysis Oil.
- Green building Projects: Work for LEED, GRIHA and IGBC Projects (DLF, IREO, VATIKA, CAPITAL, EMAAR, and DLF), LEED, GRIHA & IGBC Documentation, GRIHA & LEED review replies, Complete Energy Simulations, Daylight simulations, Simulation report (Energy & daylight) and Feasibility report.
- Solar Projects: 2 MW Roof Top Solar VARDHAMAN, Detailed Designing (PV Layout, PV Syst Report, Basic Electrical SLD).

MOHAMMAD RUSTAM

Email: md.rustam2@gmail.com

Area of Interest: Energy Management & Auditing, Energy Economics, Solar Photovoltaics, Bio-Energy, Energy Efficient Building, Designing & Engineering.

Projects/Experience:

- Application of Pyrolysis Oil in IC Engine, Engine Modification to Run with Pyrolysis Oil.

MONU KUMAR

Email: monukumargupta0@gmail.com

Area of Interest: Solar PV Research, Data Analyst, Solar Consultant, Solar Project Management and Energy Auditing.

Projects/Experience:

- Energy Auditing and Heat balance, SAIL (Steel Authority of India Limited, Ranchi)
- Synthesis and Photocatalytic degradation study of TiO₂ Nanoparticle, GEET Laboratory (Green and Efficient Energy Technology Lab.), Central University of Jharkhand, Ranchi
- Spectral Splitting Multi Single Junction Solar Cell, Central University of Jharkhand, Ranchi.

NAMWAR ANJUM

Email: namwaranjum14@gmail.com

Area of Interest: Renewable Forecasting, Solar Photovoltaic Technology, Energy System Planning, Energy Management and Energy and Environment.

Projects/Experience:

- Industrial training at Durgapur Steel Thermal Power Plant, Damodar Valley Corporation.
- Industrial training at 756/400/220 KV & ± 500 MW HVDC Back to Back Sub-Station of Power Grid Corporation of India, Pusauli.
- Synthesis and characterization of Hybrid solar cell at NGPRL, Central University of Jharkhand, Ranchi.
- Project Trainee at National Institute of Solar Energy, New Delhi.

NIKITA TIWARI

Email: tiwari.nikita01@gmail.com

Area of Interest: Energy management and auditing and Thermal management system.

Project/Training:

- Industrial training at Damodar Valley Corporation, Bokaro.
- Internship at TATA POWER on improving thermal efficiency of heat exchanger and at IIT Guwahati on solar thermal technology.
- Study on Titania, GEET Lab., Central University of Jharkhand.

PRAVEEN MAHTO

Email: praveen.cuj01@gmail.com

Area of Interest: CFD Modelling, Energy Modelling, Renewable energy, Green Buildings.

Projects/Experience:

- Study on By-product Coke making Technology, CSIR-CIMFR, Dhanbad.
- Industrial Training at Damodar Valley Corporation, Bokaro.
- "Simulation of coal combustion in pilot plant combustor using CFD", CSIR-CIMFR, Dhanbad.

R. POYOJA

Email: rpoyoja95@gmail.com

Area of Interest: Solar PV

Project/Training:

- Energy Auditing Report Analysis, Bureau of Energy Efficiency (BEE), New Delhi.
- Project Trainee at Indian Institute of Science(IISc), Bengaluru.

RAHUL KUMAR

Email: rahul90068942@gmail.com

Area of Interest: Renewable and Thermal Energy Technologies, Energy Storage and Energy Efficiency.

Projects/Experience:

- "Production of biogas using kitchen waste", CEE, Central University of Jharkhand, Ranchi.
- "Availability of biomass in Jharkhand", CEE, Central University of Jharkhand, Ranchi.
- Design, Construction and testing of a bio-charring unit, JUSCO, Jamshedpur.

RASHMI BHENGRA

Email: bhengra.rashmi@gmail.com

Area of Interest: Solar Photovoltaic Technology & Solar Mini-grid.

Project/Training:

- Study on By-product Coke making Technology, CSIR-CIMFR, Dhanbad.
- Solar Mini-grid Project Intern at GSES India Pvt Ltd., New Delhi.

STUDENT PORTFOLIOS

RASHMI SAURAV

Email: rsaurav256@gmail.com

Area of Interest: Energy Materials, Solar Thermal Technologies, Photocatalysis and I. C. Engines.

Project/Training:

- Industrial Training at Damodar Valley Corporation, CTPS.
- “Synthesis and Characterisation of Heteroatom doped Mesoporous Carbon”, Summer Research Fellowship (2016) at IIT Madras.
- “Fabrication and Characterization of PEDOT-based Counter Electrodes for Dye-Sensitised Solar Cells”, AcSIR - Dr. A. P. J. Abdul Kalam Summer Training Fellowship (2017).
- Solar Thermal applications and Energy Storage, IIT Guwahati, Assam.

RITU RANJAN PRASHANT

Email: rrprashant1994@gmail.com

Area of Interest: Solar thermal energy, Solar Photovoltaic, Hybrid PV/Thermal systems, Energy materials, Renewable energy systems and Energy sustainability.

Project/Training:

- Worked as a vocational trainee in Department of Energy Management, Bokaro Steel Plant.
- Summer Internship in Solar Thermal Technology at Centre for Energy, IIT Guwahati, Assam.
- Photocatalyst Material Synthesis and Study, Dr. S.K.Samdarshi, Green and Efficient Energy Technology Lab., Central University of Jharkhand, Ranchi.

ROHIT RAJ

Email: rohit.2044raj@gmail.com

Area of Interest: Solar photovoltaic system design and installation, Operation and Maintenance, System Monitoring, Energy Management and Auditing & Energy and Environment.

Project/Training:

- “Detection of PID (Potential Induced Degradation) and its effect in performance of crystalline silicon photovoltaic module”, National Institute of Solar Energy, Gurgaon.
- Fabrication and Characterization of Organic Solar Cell at NGPR Laboratory, Central University of Jharkhand.
- Renewable Energy Potential estimation at Tata Motors Limited, Jamshedpur.
- In-plant training on 33/11 KV Power Sub-Station and M.R.T. Lab PESU (East) Patna at South Bihar Power Distribution Company Ltd.

SANCHAYAN MAHATO

Email: sanchayan.mahato112@gmail.com

Area of Interest: Solar Photovoltaics, Gasification, Waste to Energy, Energy conservation and Energy Efficient buildings.

Project/Training:

- Training at Coal carbonization division, CSIR-CIMFR, Dhanbad.
- Internship at Gasification division, CSIR-CIMFR, Dhanbad.
- Synthesis and Characterizations of Dye Sensitized Solar Cells, CSIR-CECRI, Karaikudi, Tamil Nadu

SAPTAM GANGULY

Email: saptam.ganguly@cuja.ac.in

Area of Interest: Solar PV (Manufacturing and Characterisation), Smart Grid and Electric Vehicles.

Project/Training:

- Training on working of electrical systems in electric locomotives and in its manufacturing line, Chittaranjan Locomotive Works (Indian Railways), Chittaranjan.
- Thin film solar cell fabrication and characterization, New Generation Photovoltaic Research(NGPR) Laboratory, Central University of Jharkhand.
- Quantum Dot Solar cells Research Intern at CSIR-National Chemical Laboratory, Pune.

SATYAM ABHISHEK

Email: sattiabhi302@gmail.com

Area of Interest: Renewable Energy, Solar Energy, Solar PV, Solar Cells, Bio Energy, Wind Energy, Energy Harvesting, Energy Auditing & Management.

Project/Training:

- “Sizing of Anaerobic Digester for the production of Biogas from Cow Dung in Zaher Village”, Dr. Sachin Kumar (Asst. Professor), Central University of Jharkhand, Ranchi.
- “Fabrication and Characterization of Dye Sensitized Solar Cell”, New Generation Photovoltaic Research(NGPR) Laboratory, Central University of Jharkhand, Ranchi.
- “Synthesis and Characterization of CZTS Solar Cell”, New Generation Photovoltaic Research(NGPR) Laboratory, Central University of Jharkhand, Ranchi.

SHYAM PALLAV

Email: shyampallav2009@gmail.com

Area of Interest: Solar PV (Policy, Design & Survey) and Energy Auditing & Management.

Project/Training:

- Training at TATA Power Ltd., Jojbera.
- “Study of PV degradation parameters”, National Institute of Solar Energy, Gurgaon.

SOUMYA GHOSAL

Email: soumyaghosal123@gmail.com

Area of Interest: Solar Photovoltaic, Distributed Generation, Energy Storage & Management Systems.

Project/Training:

- 2 X 100 kWp Solar Project Installation, Durgapur Projects Ltd., Durgapur.
- Module manufacturing Unit, VIKRAM SOLAR PVT. LTD.
- Designing a Control Strategy for Automatic Cleaning System of PV Module, LARSEN & TOUBRO, CHENNAI.
- Vocational Training at DURGAPUR STEEL THERMAL POWER PLANT, DVC.
- Solar Tree for Society, CSIR-CMERI, Durgapur.

STUDENT PORTFOLIOS

SURBHI ANAND

Email: adsurbhi15@gmail.com

Area of Interest: Green Building, Energy Auditing & Management, Business Development for Renewable, R&D on Energy Materials, Solar Photovoltaics & Solar Thermal (Design, Simulation, Installation & Commissioning), Hybrid Energy System Design, Waste to Energy, Batteries and Supercapacitors, Bio-Energy.

Projects/Experience:

- “Synthesis of Conducting Polymers for Supercapacitor and sensor application”, Polymer and Functional Material Division, CSIR-Indian Institute of Chemical Technology.
- “1.141MWp Grid-Tied Rooftop Solar PV (Design, Simulation & ROI Estimation) for KDMIPE Campus, Oil and Natural Gas Corporation Limited(ONGC)”, Dehradun.
- “Modification of Biogas Digester to improve the production efficiency using colonial growth of Micro-organisms”, Centre for Energy Engineering, Central University of Jharkhand, Ranchi.
- Alpha, beta & gamma type Stirling Engine mini-prototype, CEE, CUJ, Ranchi.

TANVI

Email: tanvisingh019@gmail.com

Area of Interest: Waste Heat Recovery, Energy management & Solar Photovoltaics.

Projects/Experience:

- Waste heat management, CEE, Central University of Jharkhand, Ranchi.

VAGISHA NANDAN

Email: vagishanandan99@gmail.com

Area of Interest: Energy Policy, Rural electrification through renewable sources, solar off-grid technologies.

Project/Training:

- Rural electrification through solar off-grid solutions; Analysing its technical, social, financial, maintenance and policy aspects, The Energy and Resources Institute(TERI), New Delhi.

VIVEK KUMAR

Email: kumarvivekcrj568@gmail.com

Area of Interest: Energy Auditing, Titania based DSSC, Zigbee based solar powered forest control system.

Projects/Experience:

- Internship at BEE, New Delhi.
- Zero Energy Building Workshop, IIT BOMBAY.

VIVEK VISHAL

Email: vivek.vishal@cuja.ac.in

Area of Interest: Solar PV & Solar Industrial Solutions.

Projects/Experience:

- Manufacturing of solar panel and design of solar power plant, Akshya Solar Power.

YUGAL K. CHOUDHARY

Email: yugalkishoreykc95@gmail.com

Area of Interest: Energy Auditing & Management, Energy Efficiency, Solar Thermal Technologies, Energy Harvesting, Energy Policies.

Projects/Experience:

- ENCON Measures recommendation to DC's of TPP Sector on the basis of MEA Reports, Bureau of Energy Efficiency, New Delhi.
- Vocational Training on "Generation-Transmission " in Power System Division at I.T.R, D.R.D.O, Chandipur Orissa.
- Alternative Fuel for Green Environment, Central University of Jharkhand.

ZEESHAN USMANI

Email: zeeshan.usmani94@gmail.com

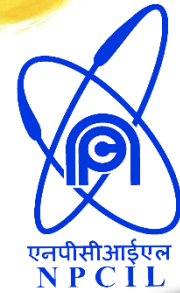
Area of Interest: R & D of new and emerging energy technologies, Solar PV installation and commissioning, Solar PV system designing, Sustainable Development, Renewable Energy technologies and Energy Management.

Project/Training:

- “Estimate Renewable Energy Potential at TATA Motors”, Energy Audit and Climate Change Department, TATA Motors Limited, Jamshedpur.
- Solar PV Installation scheme using PV Syst. for simulation at CUJ Campus, Brambe.
- Project Management Trainee at 8minutes Future Energy Pvt Ltd, the major responsibilities include managing multiple PV installation projects (site surveys, feasibility report, structure design, array layouts, etc.)





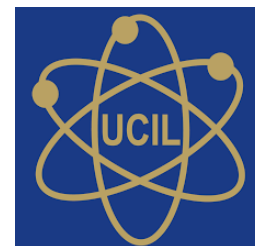
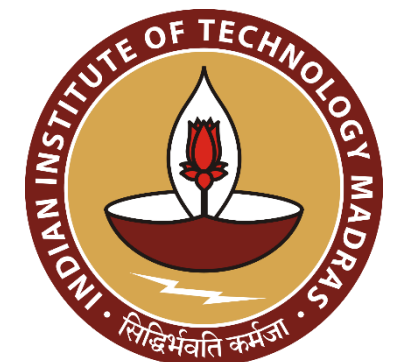


Council of Scientific and Industrial Research
National Chemical Laboratory

Government of India
Department of Science & Technology
Ministry of Science & Technology



Ministry of New and Renewable Energy
Government of India



FACILITIES FOR RECRUITERS

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.



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Website: <http://www.cuja.ac.in/EnergyDepartment.php>

For Recruitment Procedure See:

<http://www.cuja.ac.in/downloads/Placement%20Procedure.pdf>

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