

Department of Energy

School of Engineering, Tezpur University Tezpur, Assam, India



Placement Brochure 2012

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From The Vice-Chancellor

Best of Luck.

I am pleased to note that the students of M.Tech., Energy Technology of our University are bringing out a "Placement Brochure" for the Department. I understand the students wish to showcase their academic and extra-curricular profiles through this document to the prospective employers and others. I am sure the brochure will highlight the Department's equipment and related sophisticated facilities along with some information on the research activities. Any affirmative contribution to the domain of "Renewable – Green and Sustainable" Energy is the order of the day!

I wish the 2010-12 batch of M.Tech. Energy Technology students a grand success and a bright career ahead.

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Professor Mihir K. Chaudhuri Ph.D., Dr.rer.nat., FASc, FNA Vice-Chancellor Tezpur University

From the HOD's desk...

It is with pleasure that I introduce our graduating students of 2012.

Ever since its establishment in 1996, the Department of Energy at Tezpur University has been striving to make its students technically robust and rationally cognizant through well researched practical strategy. As a result, the Department at Tezpur University has now been able to make its presence felt in the industry and academic spheres in the country as well as abroad. The visible presence of our alumni in various highly reputed industries and academic institutions bears testimony to this fact.

The Department is committed to equip its students with analytical skills, making them resourceful and inculcating leadership. It has always been at the forefront in upgrading the course structure and the research labs with changing trends and paradigm shifts.

The research labs of the Department are equipped with the latest instruments which are made available to the students to foster their plans for research. It is led by a team of committed faculty from various disciplines with a wealth of experience in both research and industry. The students are exposed to well-defined academic programs along with a host of sports, cultural and organizational activities on the beautiful and pristine campus of Tezpur University.

On behalf of the Department, I take great pleasure in inviting you to participate in the placement process at the campus. With your continued support, we look forward to a bright future of the students.



D C Baruah
Professor and Head
Department of Energy
Tezpur University

A Brief Introduction ...









Tezpur University

Tezpur University was established in 1994, by an Act of Parliament. The main objective of this Central University is to offer employment oriented and interdisciplinary courses to meet the regional, national and global aspirations.

Department

The Department of Energy was started in 1996, with an aim to produce manpower pool in the field of energy, develop new and efficient energy technologies, R & D and extension activities in diverse areas of energy. The Department offers AICTE approved M. Tech. programme in Energy Technology and PhD in energy related areas. The thrust areas of research are Biomass energy, Solar energy, Hydro energy, Energy-Environment interaction and Energy Conservation and Management.

Faculty

The Department is endowed with young, vibrant and dynamic faculty members who are well qualified to impart quality education and are also involved in prominent R&D projects sponsored by The Department of Science and Technology (DST), All India Council for Technical Education (AICTE), University Grants Commission (UGC), Ministry of New and Renewable Energy (MNRE). They also run consultancy projects for Government, PSU as well as well known private organizations. The Department is also visited by renowned experts from universities and industries all over India and abroad.

Students

The postgraduate students have built a vibrant and creative atmosphere in which both theoretical and experimental activities can flourish.



Students are provided in-depth and hands-on training in various specialized equipment, such as...

BIOMASS GASIFICATION SYSTEM FOR THERMAL ENERGY APPLICATIONS (10 kW)

BIOMASS GASIFICATION SYSTEM FOR ELECTRICITY GENERATION (5 kW)

BIODIESEL PRODUCTION PILOT PLANT AND CHARACTERIZATION FACILITIES

LABORATORY SCALE PYROLYSER

DISTILLATION AT REDUCED PRESSURE APPARATUS

BRIQUETTING MACHINE

1 kW PV POWER PLANT (WITH BATTERY BANK)

FIBERTECH APPARATUS

ULTRASONICATOR

UV-VISIBLE SPECTROPHOTOMETER

TOC ANALYSER (CHN ANALYSER)

SOLAR THERMAL COLLECTORS INCLUDING TEST SET-UP

SOLAR CROP DRYERS

DIGITAL POWER ANALYSER

AUTOMATIC WEATHER STATION

EXHAUST GAS ANALYZER

WIND ELECTRIC GENERATOR

IC ENGINE TEST RIGS FOR ENGINE PERFORMANCE TESTING (COMPUTERIZED DIESEL ENGINE , DUAL-FUEL ENGINE)

LOAD BANK FOR PERFORMANCE TESTING OF HONDA GEN-SET COUPLED TO 5 kW BIOMASS GASIFICATION SYSTEM

TEMPERATURE SENSING SYSTEM WITH EIGHT CHANNEL PROBE HYDRO-ELECTRICITY POWER PLANT WITH PERFORMANCE TEST FACILITIES



Department of Energy at a glance...





Students working in Solar and Energy Materials Lab



Material for catalyst preparation at Biomass Lab



A transesterification experiment in progress at Biodiesel Plant





Students working in Energy Conservation Lab



10 kW Biomass Gasifier



Students working in Bio-fuel Laboratory









Micro-Hydel Power Plant



Performance testing of C.I. engine at Computerized Diesel Engine Test Rig

More photos can be found on the following URL: http://www.tezu.ernet.in/dener/



M.Tech. Program in Energy Technology

Admission Process

Through GATE (Graduate Aptitude Test in Engineering) and TUEE (Tezpur University Entrance Examination) conducted all over India

Program

This is a

4-semester program.

The first two semesters involve course work and the last two deal with working on a research problem.

Second Semester

Eligibility

B.E/B. Tech./AMIE in Mechanical /Electrical

/Electronics /Instrumentation/Chemical/

Agricultural Engineering/ Energy Engineering

or M. Sc. in Physics and Chemistry with a

minimum of 50% marks in aggregate.

Fuel Technology Biomass Energy Solar Energy Utilization Heat Transfer Non-Conventional Energy Sources Numerical Methods and Computational Techniques Energy Lab – I

Credit Requirement

1 st Semester	20	
2 nd Semester	20	Total Credits
3 rd Semester	08	64
1th Somostor	16	

Elective Courses

Bio-energy, Advanced Advanced Solar Therrmal Energy, Solar Photovoltaic Energy, Petroleum Refining, Exploration, Petroleum Drilling & Production, Wind Energy Utilization, Hydrogen Energy & Fuel Cell, Energy, Climate Change & Carbon Trade

Power Plant Engineering
Energy, Ecology and Environment
Energy Management and Auditing
Energy Economics and Planning
Elective – I
Elective – II

Energy Lab - II

Core Courses

the curriculum has a right balance of theory & experiment - covering courses on renewable and traditional sources of energy.

Third & Fourth Semesters

The students undergo Major project (Part I) and Major project (Part II) in these two semesters (Exclusive and exhaustive research).

Need based research collaborations are also undertaken for project works with outside laboratories such as Indian Institute of Technology, Guwahati, Indian Institute of Technology, Bombay, National Chemical Laboratories, Pune, National Productivity Council, Guwahati, The Energy and Resources Institute, New Delhi, TUV-Rheinland, Pune, Indian Institute of Petroleum, Dehradun, National Physical Laboratories, Delhi, Jadavpur University, Ministry of New and Renewable Energy, GOI etc.

Ore Course

First Semester

Students' Profiles

21 eligible post graduates, currently in their fourth semester, raring to go and make their mark



ANTARA BRAHMA

B.E. (Electrical Engg.)

Areas of Interest: Biomass Energy, Energy and Environment

Email: antara_156@yahoo.com



ARUN JYOTI NATH

B.E. (Mechanical Engg.)

Areas of Interest: Biomass Gasification, Fluid Mechanics,

Heat Transfer, I.C. Engines. Email: arunjec4@gmail.com



ASHISH KUMAR SINGH

M.Sc. (Physics)

Areas of Interest: Solar Cell, Solar Thermal Applications

Email: ashishddu@gmail.com



BHASKARJYOTI MEDHI

B.E. (Chemical Engg.)

Areas of Interest: Experimental & Computational Fluid

Dynamics, Rheology, Hydro energy Email: m.bhaskarjyoti@gmail.com



BIBHA BORO

B.E. (Electrical Engg.)

Areas of Interest: Solar Energy Utilization and Application, Biomass Energy, Clean Development Management,

Undergrand Fuel Cell

Hydrogen and Fuel Cell

Email: bibbhaboro@indiatimes.com



BIKASH KUMAR SAHU

B.Tech. (Electrical Engg.)

Areas of Interest: Solar PV system, Wind Energy, Hybrid

System, Electrical Power Systems Email: bikashkumar.sahu@gmail.com



BISWAJIT GOGOL

B.Tech. (Mechanical Engg.)

Areas of Interest: Heat and mass transfer, IC engines, Thermodynamics, Power Plant Engineering, Biomass cook stoves

and Fuel cell

Email: gogoi.bj.69@gmail.com



CHANDAN DAS

M.Sc. (Chemical Sciences)

Areas of Interest: Synthesis of Catalysts and Hydrogen

production, Photocatalysis Email: chandan d@ymail.com



DEEPJYOTI BARMAN

B.E. (Mechanical Engg.)

Areas of Interest: Energy Efficiency, Management, and Audit

Email: rupdeep.2008@rediffmail.com



DEEPJYOTI BORA

M.Sc.(Physics)

Areas of Interest: Biodiesel production and its application in

C.I engines, Solar PV applications Email : dbora865@gmail.com



HEMANTAJEET MEDHI

B.E. (Chemical Engg.)

Areas of Interest: Heat & Mass Transfer, Fluid Mechanics,

Gasification

Email: jeethemanta.medhi12@gmail.com



Students' Profiles



KAUSHIK HAZARIKA B.E. (Mechanical Engg.)

Areas of Interest: Energy conservation, Heat transfer

Email: enthalpy011@gmail.com



RAJESH KUMAR BHAMU

B.Tech. (Mechanical Engg.)

Areas of Interest: Solar thermal devices and thermal power

plant, Energy Management & Auditing, Energy Economics

Email: kumarbhamu@gmail.com



LITON BASAK

M.Sc. (Physics)

Areas of Interest: Energy Management, Biodiesel, Solar PV,

CDM, nuclear physics

Email: cutelee_124@rediffmail.com



RAJIV SAHA

M.Sc.(Instrumentation)

Areas of Interest: Petroleum Production, Petroleum Refining,

Instrumentation and Quality Control Email: saharajib26@gmail.com



MANDAPALLI BALASRINIVASA RAO

AMIE (Mechanical Engg)

Areas of Interest: Solar Ponds, FPCs, Wind Energy

Utilisation

Email: mbsraoene10020@gmail.com



RANA SENGUPTA

M.Sc. (Physics)

Areas of Interest: Clean Development Mechanism, Biomass

Energy Utilisation, Biofuels

Email: ranayou.sengupta3@gmail.com



PINAKPANI BARUAH

B.E. (Mechanical Engg.)

Areas of Interest: Energy Conservation, Biomass

Conversion

Email: ppbaruah09@gmail.com



SANZIDA TASMIN ALI

B.E. (Mechanical Engg.)

Areas of Interest: Energy Conservation, Wind Energy Utilization,

Mechanics

Email: tasmin.ali@gmail.com



PLABAN BORA

B.E. (Chemical Engg.)

Areas of Interest: Energy and Environment

Email: bncplaban@gmail.com



SUNNY BHARALI

B.E. (Chemical Engg.)

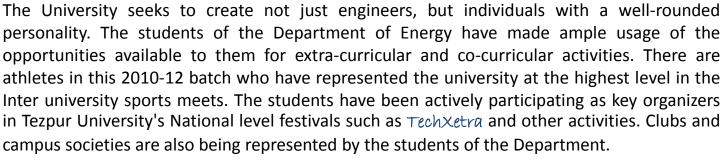
Areas of Interest: Photocatalysis, Hydrogen energy

Email: bharalisunny@yahoo.in



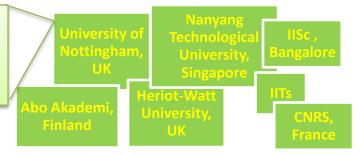
Activities Gallery







The Department of Energy, Tezpur University regularly organizes energy-talks which invite eminent experts both from industry and academic domain



The Department also hosts national as well as international level conferences in which impressive voluntary student participation has been witnessed. Some of the recent activities are ...

- ♣ 10-day ISTE workshop on Solar Photo voltaics: Fundamentals, Technologies and Applications, 12-22th December 2011
- ♣ International Congress on Renewable Energy (ICORE-2011), 2-4th November 2011
- ♣ National Conference on Renewable Energy (NCRE-2010) for Development of Underdeveloped Areas with particular reference to North East India, 23-25th March 2010



A few recent industrial visits...

- ♣ NEEPCO, Ranganadi Hydro Electric Plant, Arunachal Pradesh
- ♣ Hindustan Paper Corporation Ltd., Nagaon Paper Mill, Assam



Activities Gallery



Sticker-Ticket designed by the Department on the occasion of Rajiv Gandhi Akshaya Urja Divas (RGAUD)







Reduce your Carbon Footprint

Our Alumni

The Alumni of this Department have proven their competence by excelling in some of the most competitive environments around the globe, be it in the industry or academia.

Govt. and Private Organizations

- GE Energy
- Siemens India
- TUV-Nord
- Winrock
- TUV-Rheinland
- SGS India
- The Energy and Resources Institute (TERI)
- Hindustan Aeronautics Limited (HAL)
- National Productivity Council (NPC)
- C-WET
- SSS-NIRE
- Ministry of New and Renewable Energy (MNRE)
- · OIL
- NRL
- ONGC
- Naguya University (Japan)
- Tezpur University etc.

Higher Studies

- Imperial College London (UK)
- Cardiff University (UK)
- Heriot-Watt University (UK)
- National University of Singapore (Singapore)
- Nanyang Technological University (Singapore)
- University College of Cork (Ireland)
- IIT- Bombay
- IIT- Delhi
- IIT- Guwahati etc.

Please find details at – http://www.tezu.ernet.in/dener/



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Placement Procedure & Facilities for Recruiters

AS PER THE GUIDELINES OF TEZPUR UNIVERSITY PLACEMENT CELL, THE PLACEMENT PROCEDURE FOLLOWS A SIMPLE AND TRANSPARENT PLACEMENT POLICY.

- ♣ Organizations are invited via emails, telephone calls and faxes.
- ♣ Organizations interested in recruiting students of the Department must fill up the Job Declaration Form (JDF), downloadable from our website http://www.tezu.ernet.in/dener/ in which information related to job description, job profile, place of posting, remuneration etc. are to be clearly mentioned.
- ♣ Organizations are requested to fill in the JDF with due care and send it back via email to placement.energy@tezu.ernet.in. The JDF serves as an introduction to the job profile for the candidates.
- ♣ The JDFs of all the Organizations are scrutinized and dates for campus visit are allotted to the companies accordingly. The dates can be suitably adjusted, keeping common interests in mind.
- ♣ The procedure for selection of candidates is as per the policy of the organization concerned.

THE INTERESTED COMPANIES WOULD BE PROVIDED ALL KINDS OF LOGISTIC SUPPORTS SUCH AS:

- Lodging and boarding arrangements in the University Guest House
- Arrangement of Auditorium/Halls and providing Audio-Visual facilities for pre-placement talks
- Helping in conducting written tests, group discussions and individual interviews



Guest House interior





Conference Room





Video conferencing facilities are also available for recruiters

Conference Hall



The city nearest to Tezpur town is Guwahati (Assam), also known as the "Gateway of the Northeast".

ROAD CONNECTIVITY

Tezpur is well connected with Guwahati by road. Regular bus services are available from Guwahati (ISBT/Machkhowa) to Tezpur ASTC Bus Station via Nagaon or Mangaldoi.

o National Highway No. 31 via Jalukbari upto Baihata Chariali and NH 52 from Baihata Chariali via Mangaldoi.

Distance: 181 kms

o National Highway No. 37 via Nagaon upto Kaliabor Tiniali and NH 37 △ from Kaliabor Tiniali via Kolia Bhomora bridge.

Distance: 198 kms.

How to Reach Tezpur University





AIR CONNECTIVITY

From Kolkata to Tezpur - Direct Alliance Air flights (Mon, Wed and Fri)
Between Tezpur and Guwahati - one ATR flight (Mon, Wed and Fri)
Between Guwahati and other impotant cities - several daily flights

RAIL CONNECTIVITY

Nearest main rail hub is Guwahati which has good connectivity of railway networks with other important places.

















Contact Us

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STUDENT REPRESENTATIVES

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