



Glimpses



A Quarterly News Bulletin

Published by

Department of Mechanical Engineering

JORHAT ENGINEERING COLLEGE

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Editorial Board

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- **Saumyasree Dutta**
- **Ekbal Hussain**

VISION

- To emerge as a centre of excellence in mechanical Engineering and maintain it through a continuous effective teaching - learning process and need - based research.

MISSIONS

- M1: To adopt effective teaching-learning processes to build students capacity and enhance their skills.
- M2: To nurture the students to adapt to the changing academic needs and industrial aspirations.
- M3: To develop professionals to meet industrial and societal challenges.
- M4: To motivate students for entrepreneurial ventures for nation-building.



Jorhat Engineering College, the premier institution of North East India and the second Government Engineering College of Assam has completed its fifty years of relentless service to the society. The College came into existence on January 7, 1959 at H.R.H, P.O.W. Institute of Engineering & Technology, Jorhat with the then Principal of the Institute, Sri H.N. Barua also as the Principal in-charge of Jorhat Engineering College. The college started functioning with admission of its first batch of students in Civil Engineering, on October 10, 1960.

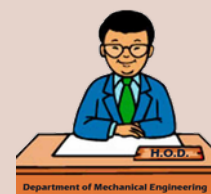
With a glorious journey, the College currently offers AICTE recognised B.E. courses in Civil, Electrical, Mechanical, Computer Science & Engineering, Instrumentation Engineering and M.E. course in Mechanical Engineering, Civil Engineering and Electrical & Instrumentation Engineering. The College has been offering three-year post graduate course leading to Master of Computer Application (M.C.A.) since 1987.

The **Department of Mechanical Engineering** was introduced in the college in the year 1962 with an initial intake capacity of 15 students per year. It was subsequently increased to present class size of 90 students. Over the years, the department has earned a place of high repute through its quality teaching and rigorous practical training.

The department has a strength of three Professors, six Associate Professors, thirteen Asst. Professors and six technicians. The faculties comprise of specialised persons in Designs, Dynamics, Fluid machineries, Thermal Engineering Non conventional energy, Quality control, Fluid dynamics, Operation research, Industrial Engineering, Pollution, Production Systems, Computer Integrated Manufacturing, Robotics etc. They have published several technical papers in prestigious National and International Journals and International Conferences.



MESSAGE

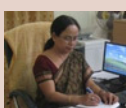


From Principal's Desk

I am pleased to know that the Department of Mechanical engineering of Jorhat Engineering college is publishing its first ever quarterly news bulletin "**Glimpses**".

I congratulate the H.O.D., all the faculty members, staffs and students of the department for their sincere efforts towards achieving the vision of the department as well as Jorhat Engineering College. I wish the news bulletin will be a carrier of information in relation to all the ongoing activities of the Department of Mechanical Engineering.

PROF., (MRS) REETA SARMA
PRINCIPAL,
JORHAT ENGINEERING COLLEGE, JORHAT, ASSAM



From HOD's Desk

It is a great pleasure to know that our department is publishing "**Glimpses**" - a quarterly news bulletin. Being associated with the venture, I feel positive about the initiative which will certainly bring about intellectual and co- curricular reinvention to the department in its march towards excellence. We would record the activities of the department, contributions of the teachers and students on a quarterly basis. The compulsion of publishing the bulletin would certainly motivate us to undertake fruitful activities and plan for the next quarters. In the process, the department will move in the right direction and grow continuously.

Although it is a very small beginning, I believe it will be an effective venture in developing a quality holistic system for the department. I thank the editorial board and the members of the department for their positive attitude.

PROF. PARIMAL BAKUL BARUA
H.O.D., DEPARTMENT OF MECHANICAL ENGINEERING
JORHAT ENGINEERING COLLEGE, JORHAT, ASSAM





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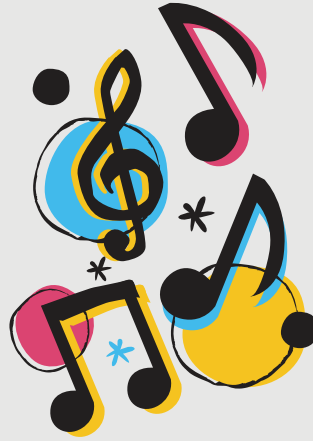
It is the supreme art of the teacher to awaken joy in creative expression and knowledge.

— **ALBERT EINSTEIN**

বিভাগীয় সংগীত

জ্ঞানৰ চিৰপ্রজ্জ্বলিত জ্যোতি,
বিলাই যাওঁ আমি বিলাই যাওঁ।
সমাজৰ প্ৰগতি হাতে হাতে ধৰি,
আগবঢ়াই যাওঁ, আগবঢ়াই যাওঁ।

ইতিহাস সূৰি, আহাঁ আমি আগবাঢ়োঁ
কৰি লওঁ মনতেই পণ।
সেৱাৰ মাজেৰেই, মানৱ সভ্যতাক
দিওঁ এক নতুন দিগন্ত।
দিওঁ এক নতুন দিগন্ত॥



হে মহান যন্ত্ৰ অভিযন্তা
অট', ডিজেল সকলো মহান সত্ত্বা
তোমাৰেই হাত ধৰি, জ্ঞানৰ জ্যোতি খেদি
গাই যাওঁ প্ৰগতিৰ গান।
গাই যাওঁ প্ৰগতিৰ গান।
যন্ত্ৰ আৰু মানৱতাৰ মাজৰ সম্বন্ধক,
দি যাম নতুন মান।

প্ৰযুক্তিবিদ্যাৰ হে জাগ্ৰত প্ৰহৰী,
উৎসৰ্গিত সেৱাতেই প্ৰাণ,
যন্ত্ৰৰ বুকুতে সেই প্ৰাণৰ সঞ্চাৰে
গাই যাওঁ প্ৰগতিৰ গান।



কথা- প্ৰাণদীপ গোস্বামী (স্নাতক ২০১৮)

সূৰ- অংশুমান শৰ্মা (স্নাতক ২০১৮)

DEPARTMENTAL ACHIEVEMENTS & ACTIVITIES

INDUCTION PROGRAM FOR THE FIRST YEAR ENGINEERING STUDENTS

- Jorhat Engineering College, Assam has conducted a week long Induction Program for the first year students of 4-year Bachelor of Engineering Degree course from January 24, 2018 to January 30, 2018.
- As a part of the Induction Programm 2017-18, there were two sessions of "Departmental Orientation Program" on January 25, 2018 and January 29, 2018 at "Mechanical Engineering Seminar hall". On January 25, Dr. Parimal Bakul Baruah, Prof. and H.O.D. of the Department of Mechanical Engineering introduced the 1st year students to the department and departmental faculty members. Other faculty members of the department also took part in the session and addressed the students. On January 29, 2018, students showcased their various hobbies and talents.



Head of the Department addressing the first year students in Orientation Program

A first year student performing dance



PREPARATION OF DRAFT OF VISION AND MISSION

- Sought draft from groups of faculty members comprising of two faculties on 06.10.2017.
- Received six drafts from six groups on 16.06.2017
- Preparation of the draft after discussion with faculty members of the department on 20.20.2017.



Discussion on vision mission of the department

DISCUSSION WITH STAKEHOLDERS ON THE DRAFT VISION MISSION, AND PEOS AND SOUGHT VIEWS

- Prepared the draft of PEOs with active participation of the faculty members on 02.02.2018 (Brain storming session).
- Interaction with alumni and industry people on 04.03.2018. A discussion on the vision mission held in alumni meeting.



Stake holders meeting on vision and mission

IN CAMPUS GATE COACHING CLASSES

- As GATE Examination is mandated as the exit examination for engineering graduates by AICTE, the department has initiated free GATE coaching classes beyond regular class hours i.e from 4:30 pm - 7:00 pm, 8 - 12 hours per week with effect from february 1, 2018.
- Current sixth semester students are getting free coaching offered by the department faculty members.



Sixth semester students during GATE guidance seminar

MISCELLANEOUS ACTIVITIES IN DEPARTMENT OF MECHANICAL ENGINEERING



A view of the Interaction with eight Semester students on 09.02.2018.



A view of the Interaction with fourth and sixth Semesters students on 10.02.2018



Interaction with second Semester students on 10.02.2018.



Interaction with staff of the department workshops staff on 12.02.2018.



Interaction with parents on 03.03.2018.



Interaction with alumni and industry people on 04.03.2018.



Providing MATLAB classes in the department & VENSIM



Received online feedback from student and academican.

PhD scholars of Mechanical Engineering Department

DEPARTMENTAL CANDIDATES, REGISTERED IN 2017



Diganta kalita
Asst. Prof. MED,
JEC

RESEARCH AREA:
OPTIMIZATION OF HEAT
AFFECTED ZONE IN WELDING



Bijay Kr. Roy
Asst. Prof. MED,
JEC

RESEARCH AREA:
ENERGY AND EXERGY
EVALUATION OF A NATURAL GAS
FIRED COMBINED CYCLE POWER
GENERATION UNIT



Mafidur Rahman
Asst. Prof. MED,
JEC

RESEARCH AREA:
MECHANICAL DESIGNING



**Partha Pratim
Barthakur**
Asst. Prof. DUIET, DU

RESEARCH AREA:
SIMULATION OF
TRAFFIC SYSTEM
WELDING

REGULAR (FULL TIME) CANDIDATES : ADMITTED (YET TO BE REGISTERED) IN 2017



Ranbir Kalita
MED, JEC

RESEARCH AREA:
SOLAR
DISTILLATION



Dhruvad Sarma
MED, JEC

RESEARCH AREA:
SOLAR
REFRIGERATION

FACULTY ACTIVITIES

- As a part of twinning program under TEQIP-III, Dr. Diganta Hatibaruah, Associate Professor, Mechanical Engineering and TEQIP Coordinator of Jorhat Engineering College has visited Malnad College of Engineering, Hassan, Karnataka from January 9, 2018 to January 10, 2018.



- As a part of twinning program under TEQIP-III, Dr. Thuleswar Nath, Associate Professor, Mechanical Engineering has visited Malnad College of Engineering, Hassan, and Karnataka from February 9, 2018 to February 10, 2018.



- Dr. Thuleswar Nath and Dr. Satyajit Paul, Associate Professor, Mechanical Engineering attended a 6 days Faculty Development Program "Advanced Manufacturing Processing techniques" organized by the Department of Industrial and Production Engineering in Malnad College of Engineering, Hassan, Karnataka, the Mentor institute of Jorhat Engineering College from February 12, to February 17, 2018.



FACULTY ACTIVITIES

- Mr. Jitender Kundu, Mr. Siddhartha Kosti, Mr. Sanjeev Kumar Vishwakarma and Mr. Prince Kumar attended 5 days Faculty Induction Workshop held in two phase, from February 6, 2018 to February 10, 2018 and February 19, 2018 to February 23, 2018.



- Dr. D. K. Rabha, Assistant Professor, Mechanical Engineering took part in Awareness program on e-learning, Energy conservation and improved chulha under “Unnat Bharat Abhiyan”, JEC Pahokotia Syam Gaon on March 18, 2018.



- Dr. Parimal Bakul Barua, H.O.D. of Mechanical Engineering along with Dr. Thuleswar Nath and Dr. Pradeep Kumar Mahanta inaugurated the souvenir of “30th Anniversary Celebration of Hostel #9”, Jorhat Engineering College on April 7, 2018.



STUDENTS ACHIEVEMENTS & ACTIVITIES

- Kartik Kamal Saikia, B.E. 8th semester, cleared the MAT 2018 with 99.34 percentile; result declared on Jan 1, 2018. Also, he won the third Best Debate Team at the Tanu Konwar Memorial Debate (inter-state), Gargaon College, Sivasagar Distt. on Jan 8, 2018.

**Kartik
Kamal
Saikia**



- Tonmoy Sarma, 6th Semester BE, participated in 12 days NCC camp in Portblair, Andaman and Nicobar Islands during Jan 5 - Jan 16, 2018 and also won second prize in Debating Competition during the camp.

**Tonmoy
Sarma**



- Nabendu Dey, Sumitro Nath, Mrinmay Thakuria and Synthia Mallick, BE 8th Semester, published a paper "Investigation and Taguchi Optimization of Microbial Fuel Cell Salt Bridge Dimensional Parameters" under supervision of Dhrupad Sarma and Parimal Bakul Barua in Journal of The Institution of Engineers (India): Series C, Springer; published online on Jan 8, 2018. (doi:10.1007/s40032-017-0436-0.).

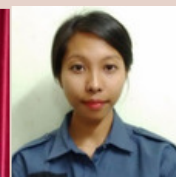
**Mrinmoy Thakuria,
Nabendu Dey,
Sumitro Nath,
Synthia Mallick**



- Rinkumoni Borah and Manisha Kardong, BE 6th Semester, participated in 10 days NCC camp held at NCC Academy, Jorhat during Jan 27 - Feb 5, 2018.

**Rinkumoni
Borah**

**Manisha
Kardong**



- Mr. Arijit Dey, Ms. Rimeshikha Saikia and Ms. Priyanshee Bordoloi, ME 4th Semester, attended one week Short Term Course on "Advanced Manufacturing Processing Technique" from Feb 12, 2018 to Feb 17, 2018 at Malnad College of Engineering, Hassan, Karnataka.

**Mr. Arijit Dey, Ms. Rimeshikha
Saikia and Ms. Priyanshee
Bordoloi attending STTP at MCE**



STUDENTS ACHIEVEMENTS & ACTIVITIES

- Binay Kumar Singh, BE 8th Semester, won a scholarship of Rs15000/- (Rupees Fifteen Thousand) only for his creative and meritorious project idea from AEC CLASS 88 FOUNDATION on Jan 27, 2018.



Binay Kumar Singh receiving Rs. 15000/- from AEC CLASS88 FOUNDATION

- Rohit Saikia and Abhinov Gogoi, BE 6th semester, won the Futurepreneur Trophy at the 2nd Rural Entrepreneurs' Meet 2018 at Tata Institute of Social Science, Tuljapur held on Feb 11, 2018.



Mr. Abhinov Gogoi and Mr. Rohit Saikia holding their FUTUREPRENEUR trophy from Tata Institute of Social Science

- Abdul Hamid Laskar, 8th Semster BE, cleared MAT 2018 with 95.94 percentile; result on Feb 26, 2018.



Abdul Hamid Laskar

- Binay Kumar Singh, BE 8th Semester, attended "4th National Workshop on NEMS/MEMS or Theranostic Devices" held at Centre for Nanotechnology, Indian Institute of Technology, Guwahati during Feb 26 - 28, 2018.



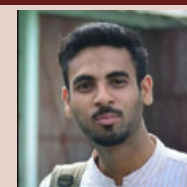
Binay Kumar Singh

- Amit Kumar Jha, 6th Semester BE, attended conference: Research Conclave'2018 from March 6, 2018 to March 11, 2018 at IIT Guwahati.



Amit Kumar Jha

- Ekbal Hussain, B.E. 8th Semester, won the 3rd prize at All Assam Debo Kumar Memorial Quiz Competition, Titabor, Jorhat, held March 31, 2018.



Ekbal Hussain

- The team comprising of 8th semester students Md.Faheemul Islam & Pankaj Sarma, Mechanical Engineering and Arnab Kishor Bordoloi, Electrical Engineering under supervision of Rajiv Chakraborty, Assistant Professor, Department of Computer Science qualified for the National level conference under DRDO ROBOTICS AND UNMANNED SYSTEM EXPOSITION 2018 held on April 6, 2018.



Md.Faheemul Islam, Pankaj Sarma and Arnab Kishor Bordoloi

STUDENTS ACHIEVEMENTS & ACTIVITIES

CAMPUS RECRUITMENT (FROM AUG'17 TO MAR'18)

Oil India Limited

- Lakhyajit Saikia
- Pratyosh Mahanta
- Ritom Chakraborty
- Archita Nirmala

Cummins India

- Rupak Saha
- Tanumita Roy
- Archita Nirmala

Telecom Network Solutions

- Mamin Uddin Ahmed
- Ankur Sharma
- Ekbal Hussain
- Mostafizur Rohman
- Javed Ali Ahmed
- Parchajit Saikia

Hindustan Unilever

- Meghana Sarmah
- Prachurjya Baruah
- Rudrajyoti Das

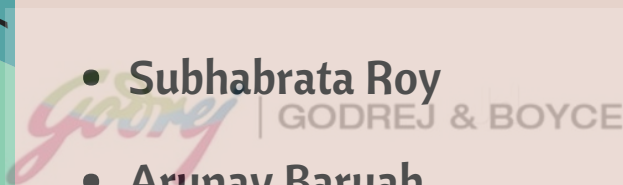
Itc Limited

- Saumyasree Dutta
- Ritom Chakraborty



Godrej And Boyce

- Subhabrata Roy
- Arunav Baruah



Dabur

- Bikash Gupta



Ethnus Consultancy services

- John Teron



STUDENTS ACHIEVEMENTS & ACTIVITIES

GATE QUALIFIED FINAL SEMESTER BE MECHANICAL ENGINEERING STUDENTS



Aabir Dey



**Bhargov
Bhattacharyya**



Dibya Sarma



**Dulendu Ranjan
Phukan**



Jibesh Chandra Das



Lakhyajit Saikia



Nerson Boro



Pratyosh Mahanta



Rahul Bhowmick



Rajarshi Boruah



Sandipan Saikia



Sayan Mazumder



**Swarangsha
Basumatary**



Vinayak Thakur



Wrishiraj Sharma



Yubaraj Das