



SKS Educational and Social Trust

Bengal College of Engineering & Technology, Durgapur
Approved By AICTE New Delhi and Affiliated to MAKAUT, West Bengal
Department of Mechanical Engineering

(Provisionally accredited by National Board of Accreditation, 2017-2020 with one year extension up to 30.06.2021)

Editorial Board: Dr.N.K. Das, Dr.Sandeep Kumar, Mr. Subrata Ghosh

News letter Volume-III Jan- June 2020

Director's Message

I am extremely happy to know that the Department of Mechanical Engineering of BCET is bringing out a departmental news letter to improve visibility of the department among the stakeholders. Mechanical Engineering Department has excellent potential to improve its reputation among the aspiring students, guardians, educational authorities, institutions and people of eastern India. I am sure; the highly capable faculties of this department will use this opportunity to showcase their academic abilities through publication of technical papers, articles, facilities and overall students' outcome of ME Department. I take this opportunity to congratulate the HOD and faculties of ME Department for this excellent endeavor and wish their novel effort a grand success.

Prof.(Dr)A.C.Ganguli
Director, BCET, SKSGL.

Principal's Message

I am extremely happy that the Department of Mechanical Engineering is bringing out a News Letter. This News Letter will definitely help to showcase the activities that are happening in the Department, as well as in the campus. It also helps in building up team work which is very much needed today in the world of competition. It provides a platform for exposing the merits and academics achievements of the faculty. This enhances the documentation culture of the Department. This News Letter shall inspire all of us for new beginning enlighten with hope, confidence and faith in each other.

Prof. (Dr) R. C. Soni
Principal, BCET

Message from HOD

It is my immense pleasure in bringing out this Newsletter for the Department of Mechanical Engineering. At the outset, I express good wishes to those who worked for publication of this Newsletter.

Mechanical Engineering Department is provisionally accredited by National Board of Accreditation and has a well blend in members of the faculty who have good industrial / research / teaching experience in different fields, Laboratories and Workshops are well equipped with modern facilities to provide an enabling environment to facilitate students to learn and excel in industries and professional institutes.

My best wishes to my students, faculty members, non teaching staff and all stakeholders.

Prof. (Dr.) N. K. Das,
Head of Mechanical Engineering Department

About Us: Bengal College of Engineering and Technology, Durgapur,

was established under the aegis of SKS Educational and Social Trust in 2001 with an objective of imparting quality education in Engineering / Technology and Management for the upliftment of the society and the country. From the inception of the college, Department of Mechanical Engineering is functioning as a basic Engineering Department to cater courses for first year B. Tech. only. In 2008 this department was upgraded to a Degree Awarding Department and continuing in imparting quality education in the domain of Mechanical Engineering. UG Mechanical Engineering was provisionally accredited by the National Board of Accreditation for three years (2017-18 to 2019-20) and has also been granted one-year extension of accreditation up to 30-06-2021.

Consistent with Vision and Mission of College those of the Department are:

Vision of Department : To evolve as a centre of excellence in the field of Mechanical Engineering by continuous endeavor in improving the teaching learning process by adopting the advancements in this specialized field of engineering, to produce socially responsible competent professionals capable of working in multicultural global environment.

Mission of Department: 1.To impart quality technical and professional education by integrating sound fundamental knowledge in mathematics, science and engineering subjects to produce competent and responsible engineering professionals.

2. To provide an enabling environment for inculcating creative abilities, innovation, entrepreneurship with commitment to society, futuristic vision in national and global perspective.

3. To strive for shaping the Mechanical Engineering Department into a centre of excellence in teaching, learning and R&D in engineering design and analysis.

4.To improve on teaching and learning process by inculcating discipline, perseverance, effective communication skill, professional ethics and ability to design and conduct experiments, interpret and analyze data for developing products in real life use with an outlook for sustainable social and industrial needs and development.

Events

Faculty Development Programmes:

Faculty Participation in NPTEL

Course: Faulty development programmes (FDPs) a proven tool for effective improvement of teaching skills, time management in outcome based teaching have been adopted. To achieve these objectives a number of faculty members participated in various courses organized by different IITs.

Mr. Birendra Kumar Mahto (AP, ME) participated in NPTEL Course “Steam & Gas Power System”, and acquired Elite Class in session February - April-2020.

Mr. Mintu Ghosh (AP, ME) Participated & completed successfully AICTE Training and Learning (ATAL) Academy FDP on "Robotics" from 09- 12-2019 to 13-12-2019 at NIT Durgapur.

Faculty Participation in short term course:

Dr. Sandeep Kumar, (Associate Prof) and Mr. Randhir Kumar, Assistant professor attended short term course on “CAD/CAM” at NITTR-Kolkata during 27th April to 01 May 2021

Mr. Randhir Kumar, (AP, ME) has participated in one day webinar on ” Application of Artificial Intelligence on Geo-Spatial data” at MAKAUT, Kolkata on 13th June 2020.

Rawani, (AP, ME) have attended a five day FDP on “LaTeX” at Poornima University, Jaipur, India, during 4th to 8th May 2020 , in association with Spoken Tutorial, IIT Bombay, India.

Dr. Sandeep Kumar (Assoc. Prof., ME), Successfully completed the one week Short Term Training Programme through ICT Mode, organized by National Institute of Technical Teachers’ Training and Research, Kolkata on 1. CAD/CAM, from 27/04/2020 to 01/05/2020 2. Advanced Welding Processes and Physics of Welding, from 11/05/2020 to 15/05/2020

Dr. Sandeep Kumar (Assoc. Prof., ME), Participated in J.N.N Rise Webinar Series 3.0, organized jointly by Department of R&D and J.N.N Institute of Engineering IIC, Chennai, on 1. Electronic Manufacturing in India, 2. Solid Waste Management, 3. Composite Materials held on 23rd May and 24th May 2020.

Dr. Sandeep Kumar (Assoc. Prof., ME), successfully completed the Short Term Training Programme through ICT Mode on Advanced Welding Processes and Physics of Welding organized by this institute during 11th to 15th May 2020.

Mr. Birendra Kumar Mahto (AP, ME) attended one week short term course at NITTR, Chandigarh on 1. “Mechanical Manufacturing and Process Optimization” during 25th to 29th June 2020. 2. Nonmaterial’s and Devices” during 25th to 29th May 2020. 3. Quantum and Energy Materials: Potential and Applications during 4th to 8th May 2020.

Dr. Sandeep Kumar, (Associate Prof) attended one day webinar on “Prospective and Essentiality of Agricultural Sectors in Post COVID-19” Rathinam College of Arts and Science, Tamilnadu, on 14th May 2020.

Seminar / Guest Lecture:

Guest Lecture by an eminent scientist from CMERI, Durgapur, was organized in the Department of Mechanical Engineering entitle “Wind tunnel” on 12th February 2020. The lecture was delivered by **Dr. T. Murugan,** Principal Scientist, Thermal Engineering Division, CSIR-CMERI, and Durgapur. The lecture covered in detail the concept and practical application of wind tunnel in study of models.



One Guest Lecture on “Flexiblization of Thermal Units for Integration of Power in Grid” was organized by the Department of Mechanical Engineering, BCET, on 8th February 2020. **Deputy Chief Engineer, DVC, Andral, Mr. Sanjay Kumar Ghosh** discussed in details the concept and practical application of flexibility and

integration of Thermal Units.



Career Programme:

Mr. Ankit Kumar Tripathi student of third semester Mechanical Engineering attended one day seminar on “Robotics to Rural innovative teaching and research approaches,” at MAKAUT, Kolkata, on 25th June 2020.

Mr. Ankit Kumar tripathy student of third semester Mechanical Engineering has attended two day seminar on “Novel polymers composites for mitigation of Covid -19,” organized by department of engineering and physics science, IAR Gandhinagar during 25th- 27th June 2020.

Mr. Ankit Kumar tripathy student of third semester Mechanical Engineering attended one day seminar on “Data science application: present and future,” at MAKAUT, Kolkata, on 30th June 2020.

Mr. Avinash Ranjan student of 5th semester Mechanical Engineering has attended one day webinar on “Automobile and IC Engine,” at WAC pvt.. Ltd., on 14th May 2020.

Mr. Avinash Ranjan student of 5th semester Mechanical

Engineering has attended one day webinar on “Python Workshop,” through “PACKT” on 23th May 2020.

Mr. Avinash Ranjan student of 5th semester Mechanical Engineering attended one day webinar on “python workshop,” through PACKT on 23th May 2020.

Mr. Avinash Ranjan student of 5th semester Mechanical Engineering attended one day webinar on “HTML and CSS Workshop,” through PACKT on 24th May 2020.

Workshops

One Day Workshop on “Machine learning” has organized at BCET on 23rd February 2020 which is beneficial for, all Departments, **Mr. Bhanu Prakash Agrawal, CEO of SEPS Pvt.Ltd,** described various real life application, future prospective and job opportunity along with technical discussion. A number of mechanical students have participated and joy the sessions.



Inauguration of the student chapter of the Institution of Engineers (India) [IEI],

To promote the general advancement of engineering amongst students, Institution of Engineers (India) [IEI] Students’ chapter was inaugurated in the Department of Mechanical Engineering on 8th February 2020. On the day of inauguration **Mr. Sanjay Kumar Ghosh, Deputy Chief Engineering, D.V.C., Andal,** and other eminent

persons from industries delivered meaningful lectures to the students, IEI has been recognized as Scientific and Industrial Research Organization by the Ministry of Science & Technology, Govt. of India.



Research and publication

Mr. Mintu Ghosh, Assistant Professor, along with Prof. Sibsankar Dasmahaptra, Kalyani govt. Engineering College, Kalyani, have published a research paper titled “Kinetic Modeling of Stewart platform (Scopus index)” in Springer nature Switzerland on February 2020.

Mr. Mintu Ghosh, Assistant Professor, along with Prof. Sibsankar Dasmahaptra, Kalyani govt. Engineering College, Kalyani, have published a research paper title “Workspace Identification of Stewart Platform (Scopus index)” in Springer nature Switzerland on February 2020.

Extra-curricular / Co-curricular Activities

Annual Sports Meet”Athalaka-2020”

Encouraging one and all to adopt sports activities as an integral part of

routine to discipline oneself, to persevere to meet a goal, strengthen relation, instill self-confidence and above all release stress, anxiety and felicitate emotional stability and resilience, the much awaited Annual sports meet of Bengal college of engineering and technology has held on 15th and 19th-20th February, 2020 with great zeal, excitement and frolicsome. Director Prof. (Dr.) A. C. Ganguli addressed the dignitaries, faculties and the students highlighting the importance of sports in healthy life and physical fitness which is essential for students. Prof.(Dr.) A. C. Ganguli also gave best wishes to the participants.

“Participation in Cricket Tournament”

Bengal College of Engineering and Technology organized cricket tournament on 26 February and a number of students (Avinash Ranjan, Manas Priyadshi, Shashank, Rishav Kumar) from Mechanical Engineering Department participated.



