



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-IV July- Dec 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 stakeholder. 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 highly capable faculties of this department will use this opportunity to showcase their academics process 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 endeavour and wish their novel effort a grand success.

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

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 editors

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 excel in industries and professional institutes.

My best wishes to my students, faculty member, 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 is upgraded to Degree Awarding Department and continuing in imparting quality education in Mechanical Engineering being provisionally accredited National Board of Accreditation, 2017 – 2020 with one year extension up to 30.06.2021.

Consistent with Vision and Mission of College:

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.

Faculty development programs

Faculty Participation in NPTEL Course Faculty 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. Mintu Ghosh** participated in NPTEL Course “Robotics” and secures the top rank in all over India with gold medal in November 2020.

Mr. Mintu Ghosh participated in NPTEL Course “Introduction to Research” and secures the top rank in all over India with silver medal in November 2020.

Mr. Atwari Rawani Assistant professor, M.E., participated in NPTEL Course “Engineering Drawing and Computer Graphics” and secures 65% marks in December 2020.

Faculty Participation STC

Dr. Sandeep kumar, Associate Prof. M.E. attended TEQIP III Sponsored One week Short Term Course on “Research Communication” organized by Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology Jalandhar from 25th to 29th September 2020.

Mr. Mintu Ghosh participated in one week short term course on “optimization technique: Recent trends and application in engineering at MCKV Institute of Engineering, Howrah during 5th to 10th October 2020.

Dr. Sandeep kumar, Associate Prof. and **Mr. Birendra mahto** attended One week Short Term Course on “Advance in Manufacturing Technology” organized by Department of Mechanical Engineering Beant College of Engineering and Technology, Gurudaspur from 26th to 30th October 2020.

Dr. Sandeep kumar, Associate Prof. and **Mr. Birendra mahto**, Assistant Professor attended One week Short Term Course on “Emerging Trends in Renewable Energy Technology” organized by Department of Electrical Engineering, NIT Arunanchal Pradesh from 16th to 20th November 2020.

Dr. Sandeep Kumar, Associate Prof. has attended One week Short Term Course on

“Aspect of modern optimization Techniques in Science and Engineering” jointly organized by Department of Department of Mechanical Engineering, NIT Arunanchal Pradesh and Government College of Technology, Coimbatore from 17th to 21st August 2020.

Mr. Surya Kumar successfully attended webinar on simplifying IPR and patent filing at BVICAM, New Delhi on 24 July 2020.

Dr. Sandeep Kumar, Associate Prof. attended one day seminar on “Entrepreneurship Development for North Eastern States” organized by NITTTR, Kolkata on 19th September 2020.

Mr. Birendra Kumar Mahto participated in one week short term course on “Advance research traits in materials and design of mechanical system” at Vignans University during 22th to 27th July 2020.

Mr. Surya Kumar has proactively participated in the One Week Online Short Term Course on “Reliability, Maintainability and Quality Issues in Process Industries” Organized at Dr. B. R. Ambedkar National Institute Technology, Jalandhar, during 4th – 8th August, 2020 under TEQIP-3.

Dr. Uday Kumar Assistant professor participated in AICTE sponsored two week short term course “research methodologies and data analysis” organized by department of mechanical engineering CBIT, Hyderabad during 14th -26th December 2020.

Dr. Sandeep Kumar, Associate Prof. has attended One week Short Term Course on “Recent trends on FACTS and Renewable Energy sources” organized by Department of Department of Mechanical Engineering, NIT Jamshedpur from 24th to 29th October 2020.

Mr. Atwari Rawani Assistant Prof. ME., attended One week Short Term Course on “outcome based education and accreditation” jointly organized by JNTU, College of Engineering, Jagtail and Mahatma Gandhi Institute of Technology, Hyderabad from 5th to 9th October 2020.

Dr. Sandeep Kumar, Associate Prof. has attended TEQIP III Sponsored One week Short Term Course on “Advance in Fatigue, Creep, and Fracture and failure analysis of materials” organized by Department of metallurgical engineering and materials science, IT Indore during 7th to 12th December 2020.

Mr. Arwari Rawani Assistant Prof. ME., attended TEQIP III Sponsored One week Short Term Course on “leadership managerial skill and professional ethics”

organized by GCE Gaya and VJTI Mumbai from 10th to 16th September 2020.

Research and publication

Dr. Sandeep Kumar, Associate Professor **Mechanical engineering department** along with Dr. Jagadish NIT, Raipur and Dr. Amithav ray Jalpaiguri government engineering have published a paper title “**multi objective optimization of CNC drilling parameters on machining of HcHr Steel Using Taguchi’s and Grey relational analysis**” in ICTEMA-2020 international conference at jalpaiguri government engineering college during 19th 20th December 2020.

Dr. Sandeep Kumar, Associate Prof. **M.E.**, along with Dr. Jagadish NIT, Raipur, Mr. Sandeep kumar singh and Mr. Narendra Kumar have published a paper titled “**Multi objective optimization of CNC drilling parameters on machining of HcHr Steel Using Taguchi’s based utility concept and GRA-PCA Method**” in ICAME-2020 international conference at SATI Vidsha during 9th -10th July 2020.

Vishwakarma Puja Celebration

Vishwakarma Puja was celebrated by the students on 17th September 2020 with great enthusiasm and devotion at mechanical Workshop.



