

BCREC

Newsletter



Vol: 3 Issue: 1

(April 2020 -March 2021)

BCREC Group Wins Zee 24 Ghanta Education Excellence Award, 2020



Dr. B. C. Roy Engineering College and Group of Institutions, Durgapur won Zee 24 Ghanta Education Excellence Award-2020, for the second time.

At a programme held on 22nd August, 2020 at its Salt Lake, Sector - 5 premises, Mr. Anirban Choudhury, Editor and Channel Head, Zee 24 Ghanta, handed over the Education Excellence Award-2020, Winner's Trophy and the citation to Dr. Sourav Dutta, Principal, Dr. B. C. Roy Engineering College, Academy of Professional Courses and to Dr. Arindam Chakraborty, Principal, Dr. B. C. Roy College of Polytechnic, respectively.

While thanking Zee 24 Ghanta and the Editor, Principal Sourav Dutta, appreciated the untiring efforts of entire Dr. B. C. Roy collective and also its top management for whom the institution is now on fast-track. Dr. B. C. Roy Engineering College and Group of Institutions, Durgapur, received this prestigious Education Excellence Award in 2019 for the first time.

In the same evening, Shri Tarun Bhattacharya, General Secretary, Dr. B. C. Roy Engineering College and Group of Institutions, Durgapur, participated in a virtual programme on education in Corona Environment, organized by the TV Channel along with a few other eminent educationists. Earlier, Dr. Partha Chatterjee, Hon'ble Higher Education Minister, West Bengal, also took part in the process in an elaborate way.

Already well-known in academic circles for its stress on dynamic transformation of students and making them industry ready, BCREC Group did a wonderful job this year despite Corona pandemic to organize Placements in huge numbers and in the process a total of 443 students have been successful so far, in getting employment in different sectors of industries. Organizing a truly huge number of online classes in all the units of this institution is an extraordinary achievement by any standard.

Dr. Satyajit Bose
President of BCREC Society



Dr. Satyajit Bose, MBBS, MS, M.Ch., FIACS, the renowned Practicing Cardiac Surgeon in India and Asia, becomes President of the BCREC Society. Dr. Bose is the Chairman & Senior Cardiac Surgeon in The Mission Hospital, Durgapur.

Dr. Bose has performed more than twenty-five thousand cardiac surgical procedures. He has been instrumental in initiating many "firsts" in cardiac surgery in Eastern India. He is a keen environmentalist, motivator for the young, and a philanthropist, invited speaker in many business schools like IIM & XLRI.

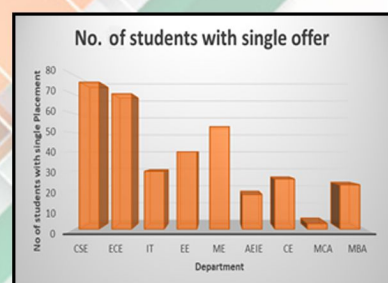
Four colleges under the umbrella of BCREC Society will be immensely benefitted through his vision, management skill and international exposure.

Training & Placement Scenario

The year 2020 was badly hit by COVID 19 pandemic. The fear of economic slowdown has impacted the on-campus placement globally. As an adaptation, the platform changed from on campus to online placement sessions. In response to the call of the hour even Dr. B.C. Roy Engineering College and Faculty of Management Studies have set their priorities as being a prime Aide in Employment generation for their students of the 2021 class of Engineering and Management.

The training and placement cell team along with a dedicated Infrastructure at AJC Bose Bhawan coordinated with the companies and organized placement drives for the students. Many companies participated in the 2020 online Campus Recruitment Program using online platform to assess the students during novel corona virus pandemic. In the IT sector we had companies like Cloud Kaptan, TCS, Capgemini, Cognizant, Bridgera, TCS digital, Infosys etc.

We had a cluster of recruiters from the core sector like Anglo Eastern Shipping Corp., Shyam Steel, Tega Industries, Sankalp Semiconductor, Techno Electric, Ready-mix Pvt. Ltd., and Indian Oil Tanking Ltd. A sector-wise breakup of the offers is given in the adjoining figure. Top recruiters for MBA included Price Water House, Berger Paints, Bharti Airtel, Shyam Metallic's, Omate Informatics Pvt. Ltd., Ion Exchange Pvt. Ltd., Cyrup Solution, Balaji Toto moulders Pvt. Ltd etc.



The placement records of the institute have improved significantly till now. Since there are more opportunities to come in the coming months, the number of offers is expected to increase. Vashi Electricals- for Electrical students, TechnipFMC (Female Candidates only) - for Mechanical students would visit the campus shortly for hiring the 2021 pass-out batch students.

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BCREC Installed Solar Photovoltaic Power Plant

For the first time, a 30 KWp On-Grid Rooftop Solar Photovoltaic (SPV) Power Plant has been installed on the rooftop of Vidyasagar Bhawan of the college. The generation of electric power has been started from 6th January 2021. There are 80 solar panels (solar photovoltaic modules) each panel contains 72 solar photovoltaic cells. The plant generates on an average 120 unit (kWh) electricity per day. The electric power generated by the solar power plant is being used by Vidyasagar Bhawan of the college. On holidays and off-days, the power will be exported to the WBSEDCL power grid. Life expectancy of the solar panels is about 25 years. The payback period is 4 years after then the power generated by the Solar Power Plant will be totally free of cost. Except, weekly cleaning, there is zero maintenance cost of the solar power plant.



BCREC Releases Online International Journal 'BEST'

BCREC
ENGINEERING & SCIENCE
TRANSACTION



Dr. B. C. Roy Engineering College (BCREC) published the first online issue of its peer-reviewed international journal, "BCREC Engineering & Science Transaction (BEST)" in January 2020. This is a biannual journal (2 issues will be published in a year). The first issue contains 11 research articles covering different engineering and scientific fields such as Electrical Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Solid State Physics etc. Papers communicated to the journal are accepted for publication on the basis of the peer review reports received from potential reviewers in the concerned fields. In order to meet the necessary requirements of ISSN application, efforts are presently being made to extend the existing editorial board by including eminent academicians and scientists additionally from India and abroad under the supervision of the Director, BCREC. Subsequently, application will be made to get the ISSN number for the journal.

Tribute to Late Dulal Mitra, the visionary leader of BCREC

Dr. B.C. Roy Engineering College paid heartfelt and respectful homage, to its visionary founder president, late Shri Dulal Mitra on his 3rd death anniversary.

Late Shri Dulal Mitra was the leader of a team of young entrepreneurs who worked hard shoulder-to-shoulder for years to build BCREC group of Institutes that have earned distinctive eminence in far and near as well as all over the world. The Engineering Institute (BCREC) is 21 years now.

Floral tributes were paid by each member of faculty, staff, officials and the college management. Shri Tarun Bhattacharya, General Secretary of the entire group inspired the members of faculty to come forward with lots of technical research papers of high standard as well as meaningful scientific projects involving students to enhance the level of eminence of all the four colleges, so that people were attracted to send their children to enjoy the BCREC group advantages. Dr. Pijush Pal Roy, Director, BCREC set the tone through his invocation speech and appealed to all to contribute their best for the students and the institution as that will be showing true respect for this visionary leader. Prof. (Dr.) Arunava Mookherjee, Principal, BCREC-APC, gave an intimate account of Dulal Mitra and his inimitable style of inspiring people to get involved in teaching-learning process.

Mr. Amitava Chakraborty, Chief of Corporate Affairs, proposed to introduce Dulal Mitra Memorial Lecture on an annual basis with participation by a great academician from the field of Technology or Management. Musical presentations by faculty and staff members in both the programs (Fuljhore & Bidhannagar Campuses) were simply splendid.



BCREC conducted First Master-Class Programme of CMC, Cambridge, UK



With bubbling bright fifty two MBA students, taking part in a two-day Master-Class Programme entitled, "Application of Digital and Social Media in Business: A Hands on Approach", on 26th & 27th February, 2020, in the Digital Class Room of MAKAUT Nodal Centre located within BCREC Fuljhore Campus; the much-awaited collaborative academic project of Dr. B. C. Roy Group of Institutions, Durgapur with Cambridge Marketing College, UK, ceremonially, took off the ground with the starting of the morning session of 26th February, 2020.

The event began with a hymn from Vaidic scriptures nicely rendered by Dr. Bhaswati Roy, FMS Department and by lighting of a lamp jointly, by all the dignitaries present, and anchored by Prof. Krishna Roy, FMS Department. This collaborative project was initiated in March, 2019 and a Memorandum of Understanding was signed on 13th December, 2019 at Peerless Inn, Kolkata.

In his inaugural address on the occasion, Shri Tarun Bhattacharya, General Secretary, complemented the authorities of Cambridge Marketing College, Cambridge, UK and their India Ambassador, Mr. Nandan Sengupta for taking great initiative along with the BCREC authorities.

Prof. (Dr.) Pijush Pal Roy, Director, BCREC welcomed all concerned and promised every support to make the best use of this opportunity for BCREC students & faculty and even outside delegates who would want to participate in such emerging programmes to be held in different Colleges of this Group, in near future. He also mentioned that arrangements have been made to introduce week-long Immersion Programmes in Cambridge, UK, shortly. Unique support came from Dr. Aloke Kahali, Head (Administration), Mr. Amitava Chakravarty, Chief (Corporate Affairs) and Prof. (Dr.) Rajib Roy, Head, Faculty of Management Studies, BCREC and his entire team, added Dr. Pal Roy.

In his keynote address, Prof Nandan Sengupta, India Ambassador, Cambridge Marketing College, UK said, while faculty of CMC, Cambridge, UK will take regular sessions in different campuses of Dr. B. C. Roy Group, Durgapur, on the other side, students and faculty from these institutions will take part in highly motivating intensive 'Immersion Programmes' in Cambridge and London for eight days, from current summer season to expose both the students and faculty to the latest and the best management techniques simply to make them global-ready, he said.

Reciprocal exchange programme from UK to BCREC campus, Durgapur is also on the cards. During the Master-Class sessions, Prof. Sengupta was given a wonderful support by Prof. Atanu Ghosh, Expert Consultant, Digital Technology and Prof. Sumit Kanungo, Expert Consultant, Digital and Print Mass Media Use.

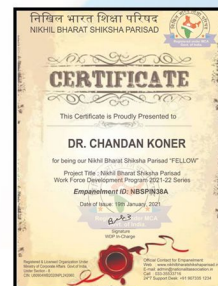
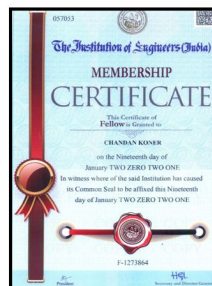
Awards, Honours & Achievements

Dr. Chandan Koner, Head of the CSE department delivered an Invited Talk at FDP on "Network and Cyber Security" organized by Department of Cyber Science & Technology, Brainware University on 15th January 2021 for which he was awarded with a Certificate of Excellence.

Dr. Koner becomes the Fellow of The Institution of Engineers (India) in the Computer Engineering Division. He also becomes a Fellow of Nikhil Bharat Shiksha Parisad in Work Force Development Program 2021-22 Series.

Dr. Raj Kumar Samanta, Professor of the CSE department becomes the Fellow of The Institution of Engineers (India) in the Computer Engineering Division.

Dr. Pijush Pal Roy, Director BCREC nominated as Chairperson of the DRDO Assessment Board, New Delhi in the areas of blasting technology, numerical modelling and fracture mechanics.



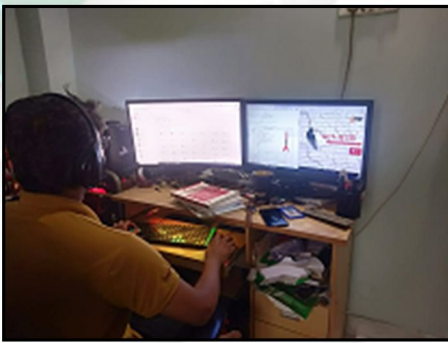
BCREC Astounds Classic TEACHING-LEARNING PROCESS During Locked-Down Period

Ever since the Covid-19 coronavirus has spread around the world, and been declared a pandemic by the World Health Organization, the students around the globe are in jeopardy fearing the stagnancy of all academic activities and regular class-room education. Under such decisive circumstances, likewise other good institutions, Dr. B. C. Roy Engineering College has taken a unique teaching-learning strategy wherein the faculty members through mentors are following diverse modes of imparting quality education to around 3200 students spread over West Bengal and adjoining states in 7 Undergraduate; 2 Postgraduate (MCA & MBA) and 4 M.Tech Engineering streams. Google and Zoom platforms are basically used in the process. The faculties are doing this novel job by taking regular classes in various modes like Online lectures, uploading of class-notes, PowerPoint presentations, virtual lab taking help of IITs, uploading of YouTube lecture series by prominent professors, Question-answer sessions on GATE, NPTEL, Course-era, etc. The system has been made so meticulously that each faculty after filling a form available in google cloud it is automatically accumulated in an EXEL file, which is being monitored by the Director of the college and a copy is uploaded to the university i.e. MAKAUT. The system is very unique in nature and nearly 90% students are participating in such classes which is better than even the regular classes with physical presence. Each class has also two components like answering of MCQs based on the class lectures and direct interactions with the teacher.

Besides such academic activities of e-learning process, BCREC remains extremely concerned for the good health, safety and well-being of all students. The authority feels that at this lockdown stage and prevailing situation, to avoid any kind of panic or stress vis-a-vis studies, course curriculum, well-being and health related issues, students will be counselled at various stages both internally and externally and for that office notification has already been issued by the Director.

The endeavour which has been taken by the college authority, earned appreciation from the guardians and well-acknowledged from every corner including the University.

STAY HEALTHY, STAY HOME AND GET QUALITY EDUCATION becomes our Mantra at this crucial time.



Participating Faculty & Student working at their homes



Monitoring of Director

Best Student Award 2020

BCREC initiated conferring Best Student Award in 2020 in recognition of outstanding performance, excellence in education and personality growth during study of UG and PG programmes. The standing committee headed by the Director, BCREC unanimously selected DULAL MITRA BEST ENGINEER AWARD (UG) and DR. B. C. ROY BEST P.G. AWARD of the year 2020. The awards comprised a Gold Medal, Citation of Appreciation and cash. The awards were conferred to Mr. Chandan Gorai (CSE) in the UG section and Ms. Siddhi Agarwal (FMS) in the PG section considering predefined parameters including learning outcomes in terms of higher studies, placement, salary package, and overall performances like sports, academics, disciplines and leadership qualities etc.



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BCREC observed 74th Independence Day of the Nation with Flair



Members of Dr. B. C. Roy Engineering College, gathered in large number by maintaining social distance in the college campus in early morning of 15th August, to pay respect to the National Flag on the occasion of 74th Independence Day celebration. Unfurling the tri-colour to the accompaniment of national anthem and national salute by the members of College Security contingent, Prof. (Dr.) Pijush Pal Roy, Director of the Institution delivered his Independence Day Address and said, despite the pandemic situation which had very badly affected the entire economic scenario including educational setup of the country, the faculty members of this esteemed institution kept the learning-lamp burning bright with their untiring efforts by way of online education. Over ten thousand online classes and other interactive sessions with the students, BCREC and its other sister concerns have indeed created a unique record, comparable even with the highest levels of such institutions in the country. He paid glowing tributes to the Corona warriors, Shri Bijan Samadder, OC-NTPS and Dr. Sujoy Chatterjee, Senior Cardiac Surgeon, The Mission Hospital, Durgapur for their gallant fight against this notorious enemy of mankind.

Faculty and other members of Academy of Professional Courses participated in the programme with enthusiasm and Prof. (Dr.) Saurabh Dutta, Principal, APC delivered the keynote address highlighting the extreme sacrifice made by millions of the countrymen to win freedom.

It demands a highlight that all the institutions combinedly honoured two eminent Covid Warriors of Durgapur to mark the occasion. Mr. Bijan Samadder, OC-NTPS, Durgapur put up relentless fight against the spread of Corona contamination for last four months in Durgapur. Another covid warrior, Dr. Sujoy Chatterjee, Senior Cardiac Surgeon, The Mission Hospital, was also felicitated by Dr. B. C. Roy Group of Institutions at Bidhan Nagar campus. He got contaminated, while on duty in the hospital and his wife, Dr. Samujwala also did suffer seriously in the process. Dr. Chatterjee, fought with the disease gallantly and joined back to duty to serve even the Corona patients too.

On behalf of our entire organization, Shri Tarun Bhattacharya, General Secretary felicitated both the Corona Warriors by offering "urtorio" as a mark of recognition and offered mementos. Shri Tarun Bhattacharya said, "both Mr. Bijan Samadder and Dr. Sujoy Chatterjee are true heroes of our country and we feel proud to get opportunity to felicitate them".

Prof. Sandip Mukherjee, conducted the programme with elegance and Prof. Priyanka Roy led the team singing the National anthem with matching support from all, the programme was a grand success.

Observance of Swami Vivekananda's Birthday

Dr. B. C. Roy Engineering College remembers Swami Vivekananda on his 159th Birthday through a seminar titled "Ethics, Education and Mankind: The Thoughts of Swami Vivekananda". For the members of BCREC collective, 12th January, 2021 was surely a day to reckon with, despite the prevailing Covid 19 scenario all around, like every year, this year also the day began by garlanding the statue of Swamiji by the Chief Guest Swami Somatmananda Maharaj, Secretary, Ramkrishna Mission, Asansol, followed by the General Secretary, Director BCREC, Director BCRC, Principals, hundreds of faculties and officials.

The programme started with the chanting of Sanskrit Shloka and songs offered as tribute to Swami Vivekananda by the college members. Dr. Pijush Pal Roy, Director, BCREC, in his welcome address mentioned several quotes from the works of Swami Vivekananda to emphasize that ethics means not-self but non-self. He said that it was the first large ceremonial gathering after the lockdowns and authority wanted to have a pious man like Swami Somatmananda Maharaj in this occasion. Dr. Saurabh Dutta, Principal, Academy of Professional Courses, Dr. B. C. Roy Engineering College, enumerated the versatility of Swami Vivekananda from his childhood and lauded the management of the college for inviting Swami Somatmananda Maharaj to deliver a valuable speech.

Swami Somatmananda Maharaj, cited several facets of the life of Swami Vivekananda and his dilemma to choose between the life of a family man or a sanyasi. Ultimately, he chose the life of a sanyasi to devote himself to the cause of the society. He explained that the essence of Vedanta is uniting diversified religious views into one which results into the emancipation of human beings. He said that ethical behaviour brings out the richness of inherent Indian Culture and religious traditions in shaping a true human being.

Shri Tarun Bhattacharya, General Secretary concluded the seminar with his vote of thanks. He told that as Swamiji was a KARMAJOGI, the management decided to observe it declaring this day as a working day and to organise a discussion on values and ethics to enrich ourselves. Prof. Rajdeep Roy, Head, Exam Cell anchored the programme.



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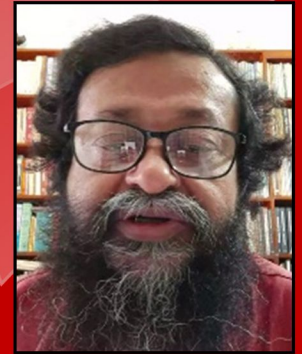
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Celebration of National Science Day

National Science Day was observed on 28th February by Dr. B. C. Roy Engineering College and Group of Institutions through a webinar on "Science, Scientists and Society" to mark the discovery of the Raman effect by Indian physicist Sir C. V. Raman on 28th February 1928.

The eminent speaker for this webinar was Dr. Shyamal Chakraborty, Professor, Calcutta University and a National award-winning author and recipient of the Gopal Chandra Bhattacharyya Smriti Puraskar by Science Association of Bengal and Kishor Gyan Bigyan, the Gyan Vichitra award in 2005, Rabindra Puraskar in 2009, the Muzaffar Ahmed Memorial Prize in 2012.

The Webinar had been carried forward through the active participations of Dr. Pijush Pal Roy, Director, BCREC and members of Dr. B. C. Roy Engineering College and Group of Institutions to spread a message about the importance of science used in the daily life of the people and to display all the activities, efforts and achievements in the field of science for human welfare.



Online Programming Quiz by EICT Academy of IIT-Kanpur



The department of IT & CSE jointly organized an Online Programming Quiz under the aegis of Electronics & ICT (EICT) Academy – IIT, Kanpur at the campus of BCREC on 7th March 2020. Prof. Md. Keramot Hossain Mondal, Prof. (Dr.) Chandan Koner and Prof. (Dr.) Raj Kumar Samanta jointly coordinated the event. Prof. (Dr.) Pijush Pal Roy, Hon'ble Director of BCREC inaugurated the event.

Around 52 students participated in the event from four departments (IT, CSE, ECE, EE). The purpose of the event was to evaluate the students' competence in basic programming skills. The online quiz was held for 25 minutes. The Winners of the quiz were eligible to compete in a National level Hackathon SMART HACKS – 2020 event to be held at a later date.

ATAL Academy Sponsored Online FDP

AICTE Training & Learning (ATAL) Academy Sponsored Online FDP on "Foundations and Practical Aspects of Cyber Security" December 15-19, 2020. Total 98 number of teachers, researchers and industry persons from different states of the country participated in this training program. Ten renowned professors and scientists from IITs, NITs, Jadavpur University and other leading universities delivered their lecture in this program.

ATAL Academy funded Rs. 93,000/- for organizing the event.



BCREC and E&ICT Academy of IIT Guwahati conducted FDP

One FDP on "Mentoring Pedagogy and Teaching for Higher Education" was organized by E&ICT Academy, IIT Guwahati held between 29th June and 6th July, 2020 in association with the Departments of Electrical Engineering and Mechanical Engineering of Dr. B. C. Roy Engineering College, Durgapur. This course was offered by the E&ICT Academy of IIT Guwahati under the initiatives of the Ministry of Electronics & Information Technology (MeitY), Government of India. Prof Kingsuk Majumdar from the Department of Electrical Engineering and Prof. Dr Arijit Banerjee from the Department of Mechanical Engineering were the coordinators of this FDP. In the inaugural session, the participating teachers and other dignitaries were addressed by the Director, BCREC Prof. Dr. Pijush Pal Roy, Prof. Dr. Ratnajit Bhattacharya, PI of E&ICT Academy and Prof. Dr. Gaurav Trivedi, the Co-PI of E&ICT Academy. Everyday had a morning session from 10 am to 1 pm and an afternoon session from 3 to 5 pm which comprised a total of 40 hours.

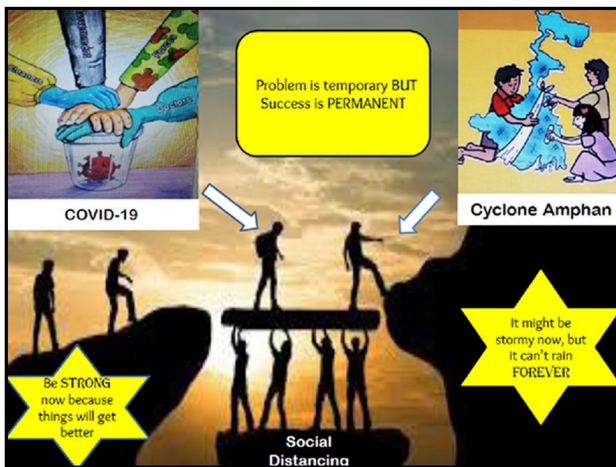
There were a total of 30 participants from 21 different institutes/universities over 15 different states of India like Kerala, Tamilnadu, Kashmir, Punjab, Rajasthan, Assam, Arunachal Pradesh, Mizoram, West Bengal to name a few. There were 51.6 per cent female participants which is important to mention. This programme was instructed by an eminent trainer-come-mentor Mr Anjan Chowdhury, who is an empanelled resource person of E&ICT Academy, IIT Guwahati and has twenty-five years of experience. The course was designed so as to highlight the importance of the teacher-student relationship and its improvements. It also included the classroom behaviour in terms of paralanguage, the DOs and DON'Ts for both the teachers and the students, probing in place of questioning and different techniques of probing, group discussions among the students. It also covered presentation skill improvement, time management and content design for the period of the class, techniques of effective speaking and barriers or limitations of effective listening and its improvements, how to teach even the last period of a day with the same energy and enthusiasm as the initial ones. The participating teachers were overwhelmed by the delivery of the resource person. The FDP came with a valedictory and feedback from the participants along with the distribution of certificates on the final session. The programme ended with a vote of thanks from both the coordinators.

National Service Scheme (NSS) activity

On 16th June, 2020 the NSS wing of Dr. B.C. Roy Engineering College had organised an online article writing and poster competition on the following topic:

"How will the Eastern coast of India rebuild from the twin challenges of Covid-19 and Amphan cyclone?"

This was in keeping with the NSS objective of developing a sense of social and civic responsibility among students in these testing times and they responded wholeheartedly.



As a part of NSS activities in Dr. B. C. Roy Engineering College, a webinar has been organised on "Vaccination Drive on Covid-19 Pros and Cons on 3rd March 2021 from 3:00 pm to 4:00 pm through Google Meet.

The speaker for the event is Dr. Partha Pal, Chief Medical Superintendent, MBBS, MPHIL (CMC Vellore, BITS PILANI).



Important Publications

- Jaya Mukhopadhyay, V. K. Singh, S. Mukhopadhyay, A. Pal: A Balanced Dissemination of Time Constraint Tasks in Mobile Crowdsourcing: A Double Auction Perspective, International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, Springer, Cham. (3PGCIC 2020) pp. 74-85.
Abstract: In this paper, how overlapping tasks (with a deadline) can be disseminated in slots and leveraged as evenly as possible to the stakeholders (task executors or sellers) is addressed through a scalable scheduling and economic mechanism (double auction).
- J. Mukhopadhyay, V. K. Singh, S. Mukhopadhyay, A. Pal & A. Kumar: A truthful budget feasible mechanism for IoT-based participatory sensing with incremental arrival of budget, Journal of Ambient Intelligence and Humanized Computing, 2021, pp. 1-18. (DOI: <https://doi.org/10.1007/s12652-020-02844-9>).
Abstract: We consider one of the scenarios in IoT-based mobile crowdsourcing in strategic setting, where we have single task requester (or task provider), multiple task executors (or IoT devices) and multiple heterogeneous tasks along with the publicly known budget. In this paper, a mechanism is designed that is both truthful and budget feasible.
- Avijit De, Sujit Das, & Samarjit Kar: Ranking of Interval Type 2 Fuzzy Numbers using Correlation coefficient and Mellin transform, OPSEARCH, (DOI: 10.1007/s12597-020-00504-2).
Abstract: In this paper, we propose a new approach to rank the interval type-2 fuzzy numbers (IT2FNs) using the correlation coefficient, where the correlation coefficient is obtained using the Mellin transform. Initially, we define the correlation coefficient for interval type-2 trapezoidal fuzzy numbers (IT2TrFNs) using Mellin transform and prove some of its major features. Then a new group decision making method has been recommended using the proposed ranking concept.
- Sanjoy Satpati, Aditya Suhasaria, Subhas Ghosal, Abhijit Saha, Sukalpa Dey, Dipankar Sukul: Amino acid and cinnamaldehyde conjugated Schiff bases as proficient corrosion inhibitors for mild steel in 1 M HCl at higher temperature and prolonged exposure: Detailed electrochemical, adsorption and theoretical study, Journal of Molecular Liquids, Vol. 324, 2021, p. 115077. ISSN: 0167-7322, (DOI: <https://doi.org/10.1016/j.molliq.2020.115077>).
Abstract: Three Schiff bases composed of cinnamaldehyde and three different amino acids, namely glycine, histidine, and tryptophan are synthesized and investigated for their anti-corrosion propensity on mild steel in aqueous HCl. More than 95% inhibition efficiency is achieved even after an exposure of 96 h in acid solution. Cinnamaldehyde and tryptophan conjugated Schiff base exhibits better inhibitory action than the other two. Experimental observation is supported and explained from theoretical calculation.
- Pranoy Roy : Effectiveness of Shear Walls for Seismic Resistance of Multi-storey Buildings in India, National Conference on Recent Advances in Structural Engineering, Organized By Nit Jamshedpur, 21-22, August 2020, Preceding of National Conference on Structural Engineering NCRASE, 2020, p. 51-57.
- Pranoy Roy: Strength Analysis of Concrete With Randomly Distributed Waste Steel Fibres, International Conference on Emerging Trends in Structural Engineering, Organized by School of Civil Engineering Vellore Institute of Technology (VIT), 16-17 July 2020, Preceding of International Conference on Emerging Trends in Structural Engineering ERTSE, 2020.

6. Pranoy Roy: Strength Analysis of Concrete With Randomly Distributed Waste Steel Fibres, International Conference on Emerging Trends in Structural Engineering, Organized by School of Civil Engineering Vellore Institute of Technology (VIT), 16-17 July 2020, Preceding of International Conference on Emerging Trends in Structural Engineering ERTSE, 2020.
7. Sanjay Sengupta, Parikshit Roy, Pijush Topdar, Alope Kumar Datta: Investigation of layered composite plates under acoustic emission using an appropriate FE model, Canadian Journal of Civil Engineering, Feb, 2021. In Press. International SCI Journal, ISSN (PRINT): 0315-1468/ISSN (ELECTRONIC): pp. 1208-6029, (DOI: <https://doi.org/10.1139/cjce-2020-0452>).
8. Dola Sinha, A. Ayaz, D.De: Performance Analysis of Mixed Natural Dye and Nanostructured TiO₂ based DSSC, International Journal of Innovative Technology and Exploring Engineering, vol.9, no. 7, May, 2020, pp. 453-456. DOI: 10.35940/ijitee.G5327.059720.
9. Sumit Banerjee, M. Alam, S. S. Thakur: Maiden application of rank correlation coefficient for line outage detection using current phasor of PMUs, International Transactions on Electrical Energy Systems (Wiley Publication) (Accepted on 02.06.2020). Online ISSN:2050-7038.
10. C. Sawmliana, Panchanan Hembram, R. K. Singh, S. Banerjee, P. K. Singh and P. Pal Roy: An investigation to assess the cause of accident due to flyrock in an opencast coal mine: a case study, J. Inst. Eng. India Ser, pp. 1-12, (DOI 10.1007/s40033-020-00215-4).
11. Pijush Pal Roy, Chhangte Sawmliana, Amar Prakash & Rakesh Kumar Singh: Safe exploitation of developed pillars of a coal seam above fire affected areas – a case study, Mining Technology (TIMM-A), Vol. 129, No. 4, 2020 (DOI: 10.1080/25726668.2020.1834972), UK, pp. 206-216.
12. Pijush Pal Roy & Anshuman Mazumder: Damage protection to sensitive structures during blasting in hard-rock and concealed concrete slabs in track hopper area of athermal power plant, World of Mining – Surface & Underground, Vol.72, No. 6, 2020, Germany, pp. 1-10.
13. Subir Gupta, Abhijit Banerjee, Jit Sarkar, Malay Kundu, Sudip Kumar Sinhad, N.R.Bandyopadhyay, Subhas Ganguly: Modelling the steel microstructure knowledge for in-silico recognition of phases using machine learning, Materials Chemistry and Physics, In Press, 30 May 2020, 123286, (DOI: <https://doi.org/10.1016/j.matchemphys.2020.123286>).
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BCREC

Newsletter

Important webinars during Lock-down Period

Department of Humanities
Dr. B.C. Roy Engineering College, Durgapur

PRESENTS

WEBINAR

ON

CULTURE AND COMMUNICATION IN THE POST COVID TIMES

RESOURCE PERSON



SUTANUKA BANERJEE
Assistant Professor, NIT Durgapur

*Only 70 students will be able to participate in First Come First Serve basis
*Registration will start on 6th July 2020 at 3:00 PM

REGISTRATION LINK : <https://forms.gle/y1KQ7LS81mWkgtHd6>

7th July 2020 (Tuesday), 4: 00 PM - 5:00 PM in Google Meet


Dr. B.C.Roy Engineering College
Durgapur

presents

Webinar for students

POST COVID-19 MARKETING SCENARIOS

RESOURCE PERSON




Prof. Nandan Sengupta
Professor, Cambridge Marketing College, UK,
Founder Director, ESK Network

12th May 2020, 3:00 pm (IST)
For Registration : <https://forms.gle/G7U5A6iH8K1f5UTD8>
(Only 70 students will be able to participate in First Come First Serve basis)
Registration link will be opened on 11.05.2020 at 3:00 pm

Webinar for Students
by
Department of Mechanical Engineering
Dr. B.C. Roy Engineering College
Durgapur

Steam Turbine Cycle: basic construction and thermal calculation

Resource Person



Mr. Suman Mukherjee
Manager, Thermal Engineering
Siemens Ltd.

15th May 2020, 3:00 pm - 4:30 pm [IST]
For Registration: <http://forms.gle/aeCZhiue8nAAT5hV7>
(Only 60 students will be able to participate in First Come First Serve basis)
Registration link will be opened on 13.05.2020

Webinar for Students
by
Department of Mechanical Engineering
Dr. B.C. Roy Engineering College
Durgapur

Interview Preparation & Soft Skills for Budding Engineers

Resource Person



Mr. Gopi Krishna Penjiara
Manager Procurement
Dept. of Atomic Energy
ECIL Unit

17th May 2020, 3:00 pm - 4:30 pm [IST]
For Registration: <https://forms.gle/FhXzTukGaVveBeSM9>
(Only 60 students will be able to participate in First Come First Serve basis)
Registration link will be opened on 16.05.2020

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR

Presents...

WEBINAR

ON

Project Management in IT

with



Mr. Goutam Dasgupta
Director, Application Development
Cappgemini Techlogy Services India Ltd., Kolkata

in



Date: 30th May (Saturday), 2020 Time: 3:00 pm (IST)

For Registration: <https://forms.gle/vPWZ93dK55SL4Pxyd>
*Only 70 students from CSE, IT and IET departments will be able to participate in First Come First Serve basis.
Registration Link will be opened on 22.05.2020 at 3:00 pm.

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR

Presents...

WEBINAR

ON

World Environment Day

with



Professor BINAY K. DUTTA
School of Environmental Science and Engineering, IIT, Kharagpur and
Chairman, BoS of Dr. B. C. Roy Engineering College, Durgapur

in



Date: 5th June (Friday), 2020 Time: 3:00 pm (IST)

For Registration: <https://forms.gle/npz55GQ7Yd8e7>
*Only 60 students will be able to participate in First Come First Serve basis.
Registration Link will be opened on 04.06.2020 at 3:00 pm

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR

Presents...

WEBINAR

ON

'LearningScape: 2020 and Beyond'

with



Dr. Aloknath De
SVP and CTO - Samsung India, Bangalore

in



Date: 6th June (Saturday), 2020 Time: 3:00 pm (IST)

For Registration: <https://forms.gle/n5CFT1MqzDnK7w9p>
*Only 75 students from CSE, IT, EEE and AEE departments will be able to participate in First Come First Serve basis.
Registration Link will be opened on 05.06.2020 at 3:00 pm

Department of Civil Engineering
Dr. B.C. Roy Engineering College, Durgapur

Presents...

WEBINAR

ON

CIVIL ENGINEERING PROJECT MANAGEMENT

RESOURCE PERSON



Mr. Subramanya GM
General Manager - Project Management
Adani Infra India Limited, Ahmedabad

A PMP® professional, having 20 years of experience in Infrastructure sector. Associated with prestigious projects including Delhi Metro, National Games Stadium, Power Plants and international metal processing plants.

- *Seats limited
- *Only 50 students in higher first will be allowed to participate
- *Instructions to join will be sent out 1 day prior

12th June (Friday)
3: 00 PM Onwards
Through Zoom Meeting

Register : <https://forms.gle/y678JvK4R796685>

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR

Presents...

WEBINAR

ON

SMART GRID

RESOURCE PERSON



Prof. (Dr.) Parimal Acharjee
Professor, Dept. of Electrical Engineering
NIT, Durgapur

Conducted on  This is strictly for B.Tech 3rd year and Final year students

Date: 30th June (Tuesday), 2020 Time: 11:30 am (IST)

For Registration: <https://forms.gle/SG68RAAx5m77ySM8>
*Only 70 students will be able to participate in First Come First Serve basis
Registration will start from 29th June at 3:00 pm

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR
Department of Electrical Engineering

ONLINE TECHNICAL INDUSTRIAL TRAINING PROGRAM

A program of Online Lecture series by eminent technocrats from industry (August 2020 - October, 2020) for technical Industrial training with emphasis on applied industrial practices, organised under Industry - Institute partnership program.

LIST OF EMINENT SPEAKER'S OF ONLINE INDUSTRIAL TRAINING PROGRAM

1. Mr. Koushik Dey Sr. Electrical Engineer, IEC	9. Mr. Susanta Ghosal Divisional Engineer, WBSEDCL
2. Mr. Sukdev Mondal Engineer, Power Grid Corporation of India Ltd	10. Mr. Kartick Nayak Manager, IITR
3. Mr. Soumyajit Sharma Divisional Engineer, WBSEDCL	11. Mr. Subrata Pradhan Manager, IITR
4. Mr. Rajjit Ghosh Sr. Manager, Electrical, IITR	12. Mr. Pankaj Kumar Senior Project Engineer, IITR
5. Mr. Subyashachi Gupta Maintenance Manager, GE Power India Ltd	13. Mr. Animesh Kumar Senior Project Engineer, IITR
6. Mr. Suprakash Mukherjee Area General Manager, IEC	14. Mr. Ravindra Kumar Yadav Assistant Executive Engineer (Manager), AEM, Ranchi
7. Mr. Rohitav Bakshi Techno Manager, Power Grid Corporation of India Ltd	15. Mr. Rahul Shaw Assistant Engineer, IEC
8. Mr. Arvin Mandal Sr. Manager (Electrical), IEC	16. Mr. Amit Kumar Sharma Sr. Section Engineer, Eastern Railway

TECH TALK DURING QUARANTINE

MACHINE LEARNING USING PYTHON

02nd May 3:00PM

MR. RICTOR BHOWMIK
Technical Head at LearnAByte
Director & Chief Operation WB, A2Z Group

REGISTER HERE: <https://forms.gle/ga9t9AbovVx9s8y8>

Webinar on **BLOCKCHAIN**

REGISTER NOW
Webinar Date: 11th May 2020 from 2 PM

In Collaborations with:

MICROSOFT Technology Associate
CERTIPORT Certified User
AUTODESK Certified User
IBYTECH Certified Partner

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR
Department of CSE

Presents... **WEBINAR** on **Tools and Trends in Artificial Intelligence, Machine Learning and Data Science**

RESOURCE PERSON
DR. SOUMALI ROY CHOWDHURY
Medical Learning Researcher PhD Computer Science
Senior Scientist, CLEMEX TECHNOLOGIES
Montreal, Canada

Date: 29th August (Saturday), 2020 Time: 6:00 pm (IST)

For Registration: <https://forms.gle/3WSWCdiDYtpZn4L97>
*Only 70 students will be able to participate in first come first serve basis
Registration Link will be open on 27th August at 10 am

DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR
Department of Instrumentation and Electronics Engineering (IEE)

ONLINE LECTURE SERIES BY DISTINGUISHED ALUMNI OF IEE DEPARTMENT

LIST OF SPEAKERS

SPEAKERS	TOPIC	SPEAKERS	TOPIC
Sandeep Ghosh (2005 Batch) Senior Engineer, Power Grid Corporation of India Ltd	Introduction to GIS Applications	Mukh Chatterjee (2001 Batch) Sr. Manager, Power Grid Corporation of India Ltd	Flow Measurement in gas sector
Bhaskar Kumar (2007 Batch) Senior Engineer, Power Grid Corporation of India Ltd	Further Supervisory Instrument	Mukh Manna (2010 Batch) Sr. Manager, Power Grid Corporation of India Ltd	Plant Commissioning and Project Management
Bhaskar Kumar (2007 Batch) Senior Engineer, Power Grid Corporation of India Ltd	Control Design Engineering	Rajeev Chatterjee (2013 Batch) Sr. Manager, Power Grid Corporation of India Ltd	Basic of Phoenix Control in Process Plant
Rohitav Bakshi (2007 Batch) Techno Manager, Power Grid Corporation of India Ltd	Selection Criteria of PLC Instruments	Anand Das (2013 Batch) Sr. Manager, Power Grid Corporation of India Ltd	Character of IEC (IEE) Instrument to be used in communication theory
Arvind Raju (2016 Batch) Senior Engineer, Power Grid Corporation of India Ltd	Overview of Chip Design	Vikram Naha (2016 Batch) Sr. Manager, Power Grid Corporation of India Ltd	Tag Data and its application in process plant
Raj Kishore (2009 Batch) Sr. Manager (Power Grid Corporation of India Ltd)	Recent of Data Science & Machine Learning		

September 7th 11Am Onwards

DR. B. C. ROY ENGINEERING COLLEGE
DEPT OF INFORMATION TECHNOLOGY PRESENTS

WEBINAR ON ENGINEERING HAPPINESS FOR ACADEMIC EXCELLENCE

BY **Dr. Arun Bhardwaj**
Founder and Chief Member, Happiness Technology
WWW.ARUNB.COM

REGISTER HERE <https://bit.ly/2YJ0wYA>

FOR ANY QUERY, CONTACT PROF. (DR.) RAJKUMAR SAMANTA: 9333336958

Department of Civil Engineering, **Dr. B.C. Roy Engineering College, Durgapur**
In Association with **The Institute of Engineers (India) Durgapur Local Centre**

Presents **One Day Webinar on Road Construction: Opportunities & Challenges**

Invited Speakers

Dr. Jagat Jyoti Mandal
Professor, Department of Civil Engineering, NITRR Kolkata

Dr. Pritam Saha
Assistant Professor, Department of Civil Engineering, IEST Shilpur

Seats limited
21st September (Monday) 10:00 am Onwards
Only 60 students to register first will be allowed to participate through **Google Meet**
Instructions to join will be sent on 1 day prior

Register- <https://forms.gle/Tx6hK2YhXqjgqHd4>

18th September 2020 to 20th September 2020

WEBINAR ON **Trends of Modern Communication Engineering Systems**

Organized by **Electronics & Communication Engineering Department**, Dr. B.C. Roy Engineering College, Durgapur

Dr. Anindya Bhowmik, Bardhaman University, Topic: Satellite Based Navigation System: Scope for Research and Exploitation. Date: 18th Sept: 2:00pm to 4:00 PM

Dr. Sarajit Kundu, NIT, Sikkim, Topic: Printed Ultra Wideband Antennas for Modern Communication Systems. Date: 19th Sept: 2:00pm to 4:00 PM

Free Registration & Certificate for participant
Registration link: <https://forms.gle/S2d4mHz3M34346>
Registration close: 15th September 2020
Contact: Dr. Rajib Basu, Prof. Debpritya Dutta

WEBINAR ON **Material Conveying System in Power Plants**

Organized by **Department of Mechanical Engineering**, **Dr. B.C. Roy Engineering College, Durgapur**

Resource Person
Mr. Biplob Ghosh
Manager, Energy Product & System Engineering, I&T Power

24th September 2020, 4:00 pm - 5:00 pm (IST)
For Registration: <https://forms.gle/HWV9Y9zrmVx9s8y8>

(A limited number of students will be able to participate in First Come First Serve basis)
Registration link will be opened on 23.09.2020

WEBINAR ON **Relevance of Heat Transfer in the Context of Nuclear Power Generation**

Resource Person
Dr. Aranjit Chakravarty
Asst. Prof., School of Nuclear Studies & Application, Jadavpur University, Kolkata

Organized by **Department of Mechanical Engineering**, **Dr. B.C. Roy Engineering College, Durgapur**

30th September 2020, 3:00 pm - 4:00pm (IST)
Registration Link: <https://forms.gle/eA9E9GWSinsum9>
Registration is open now

(Number of seats is limited & students will be able to participate on First Come First Serve basis)

Seminar on Data Analytics Streaming Ingestion Hadoop

A one day seminar on Data Analytics Streaming Ingestion Hadoop was organised by the department of IT on 3rd March 2020 by the Tech Club Code8 of the department under the Coordination of Prof. Md. Keramot Hossain Mondal, Prof. Priyanka Roy and Prof. (Dr.) Raj Kumar Samanta. Prof. (Dr.) Pijush Pal Roy, Hon'ble Director of BCREC inaugurated the event. Mr. Prabhakar Ojha, an Alumni of BCREC, who is working on Bigdata (in DRDO) dealing with the above mentioned topics, gave hands-on exposures on the working and applications in these areas throughout the day. More than 60 students participated in the event.



BCREC Campaign against Covid 19

The threat of corona virus disease caused by a novel corona virus SARS-Cov2 is becoming a life-threatening situation across the globe. In the case of infectious pandemics like this, prevention is always better than cure. Many of the people practice safety measures without proper knowledge as to whether these measures are sufficient or not to prevent the spread of the virus. It is therefore highly relevant to be aware of the preventive measures for Corona to practice it effectively. The primary preventive measures to be implemented are the regular practice of hygiene, social distancing, avoiding person-to-person contact, judicious use of masks, the practice of screening, and quarantine.

Under these circumstances, Dr. B. C. Roy Engineering College came forward with full corporate-social responsibility and stood by the people. The awareness programme was initiated by Dr. Pijush Pal Roy, Director, BCREC on 3rd September, 2020. The BCREC team comprising of Mr. Amitava Ghosh, Development Manager, Prof. Debashis Guha, Mr. Samir Das, Mr. Ajitesh Bhattacharya and Mr. Joginder Prasad campaigned across 51 markets and localities of Durgapur, Andal, Pandabeshwar, Ukhra, Panagarh and other nearby regions for 6 days from 3rd September 2020 to 15th September, 2020. The BCREC team delivered awareness lectures about the preventive measures against corona virus and distributed masks and leaflets among the people free of cost.



Motto of BCREC is always to enhance and protect health and well-being through education, research and community services in the society and whatever may come Dr. B. C. Roy Engineering College and Group of Institutions vouch to stand by the common people with all its might besides its regular academic role.

Ph.D Awardees

BCREC congratulates the following faculty members for achieving their Ph.D degrees from reputed Institutions.

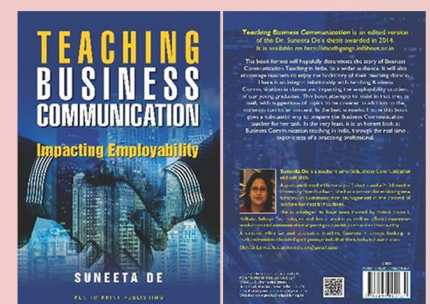
- Dr. Sanjay Kumar Saha, EE Department
- Dr. Prasanta Majumdar, IT Department
- Dr. Sourav Maitra, ECE Department
- Dr. Ankita Mitra, ECE Department
- Dr. Subhas Chandra Moi, ME Department
- Dr. Subir Gupta, MCA Department
- Dr. Anup Das, I&E Department

Book Publication

This book is the fruition of an advisory given by an external evaluator of the dissertation, that it should be published.

Adapted and edited to be of optimum usefulness to teachers of Business Communication, Technical English for Engineers across the board, this book hopes to inspire many like me who have studied Literature, but make a livelihood out of teaching Communication.

There are a host of best practises to emulate, a bouquet of analyses to teach us how to do, what we already do, better. Most pertinently, it looks at generating employable graduates even through online teaching in the times of Covid 19. This is definitely no panacea, only a refreshing look at the opportunities and challenges of Business Communication Teaching today and tomorrow.



BCREC

Newsletter

Message from General Secretary: Shri Tarun Bhattacharya



Dr. B C Roy Engineering College, Durgapur

*Approved by AICTE, New Delhi * Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal (formerly WBUT)
* Approved by Department of Higher Education, Govt. of West Bengal * NBA accredited for two programmes



It is a matter of pride to pen-down the message for BCREC Newsletter. Academic excellence along with Co-curricular and Extra-curricular activities complete the process of education. It gives me great satisfaction that BCREC is progressing in all its aspirations towards the overall development and personality of the students. I wish a great success to all members of BCREC fraternity in all its endeavours.

PROGRAMMES OFFERED

- Computer Science and Engineering (CSE)
- Electrical Engineering (EE)
- Mechanical Engineering (ME)
- Electronics and Communication Engineering (ECE)
- Instrumentation and Electronics Engineering (IEE)
- Master in Business Administration (MBA)
- Information Technology (IT)
- Civil Engineering (CE)
- Master in Computer Application (MCA)

M.Tech in:

- Computer Science & Engineering
- Power System Engineering
- Mechanical Engineering
- Modern Communication Engineering

Message from the Director: Prof. (Dr.) Pijush Pal Roy

Last few months have been quite challenging for all of us and we gave our best to win over the pandemic situation. The remarkable talent and hard work of our students and faculty members have resulted in some amazing outcomes. The COVID-19 situation brought almost everything to a standstill. Yet I am glad that we did not succumb to the situation and gave our best. Not just online teaching-learning but we extended our support to society through community help. The institute gave its best in supporting students, whether it is teaching or projects.

With a lot of webinars, around 100 in numbers, organized and attended, there was immense sharing of knowledge. All the faculty members attended various online training programs, which would definitely lead to noteworthy results soon.

I wish and pray that we triumphantly come out of these difficult times. As we move towards our goals, we must always keep in mind that we owe more to the world than it owes us. Each of us can and must do his or her bit to help build a universe that will nurture our future generation.



Message from the Editor-in-Chief: Prof.(Dr.) Chandan Chattoraj

Dear Readers:: It's time for us to wrap-up the activities of the past year 2020-2021 and we are coming out with our newsletter, Vol. 3 Issue 1. The year that is bygone has pushed us into a state of unprecedented challenges, with the corona pandemic impacting the human lives across the globe in total. In the world of academics and learning, BCREC quickly adapted and responded to this critical and changed situation reaching out to the technological platforms for getting connected and continue her activities in digital dimension. This opens up new opportunities before the technocrats to experiment and implement simplified processes to reach out to a larger audience.

रत्रिगमिष्यति भविष्यति सुप्रभातं भास्वानुदेष्यति हसिष्यति पङ्कजश्रीः।

Once again, I extend a happy reading to all. Any criticism, opinions, and encouragement will be highly appreciated.



Dear Alumni, Please share your feedback & personal experience on being BCRECIans to - director@bcrec.ac.in

Patron: Shri Tarun Bhattacharya, General Secretary
Advisor: Prof. (Dr.) Pijush Pal Roy, Director
Editor-in-Chief: Prof. (Dr.) Chandan Chattoraj (ME)
Editorial Team: Prof. (Dr.) Chandan Koner (CSE), Prof. (Dr.) Sukalpa Dey (BSH),
Prof. Priyanka Roy (IT), Mr. Shouvik Chandra, Manager (Sr. PRM)
Designed by: Prof. Susanta Kamakar (CSE)



Dr. B. C. Roy Engineering College, Jemua Road, Fulljhore, Durgapur, West Bengal, PIN: 713206
For Admission / Others, Contact: (0343) 2504106/2501353; Mob: 9832131164 / 9333928874



EDITORIAL TEAM