

# BCREC ANNUAL REPORT 2022-2023

*Dedicated to “Quality Education”*



Dr. B.C. Roy Engineering College, Durgapur

# ANNUAL REPORT

(1<sup>st</sup> July, 2022 to 30<sup>th</sup> June, 2023)



**Dr. B.C. Roy Engineering College, Durgapur**

**Jemua Road, Fujhore, Durgapur- 713206**

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## **VISION**

- To transform the institution into a global centre of learning through synergic application of creativity, innovation and discipline

## **MISSION**

- Create ideal ambience for learning and growth
- Help students inherit value-systems, be creative and agile thinkers
- Establish Discipline, Value Added Education and Training & Placement as three core values
- Building capabilities among students to lead from the front as also be a team player
- Develop a symbiotic relationship between the institution, society and the community, for mutual betterment
- Expand the Vistas of higher learning in Technology and Management Fields, including Post-Graduate Studies and Research
- Encourage global vision and integration with International Best Practices for Local, Regional and National Development

## **QUALITY POLICY**

We are committed to impart quality "Education and Training" that satisfy the requirements of our students in the fields of "Engineering, Pharmacy and Management" and our aim is to be an Institute of Excellence in global terms in the field of quality technical education through continual improvement.

We facilitate our faculty and support staff to update their knowledge and skill to match the dynamics of industrial and technological development.

## HOMAGE

Mr. Dulal Mitra

(1949-2018)

Former President

Dr. B.C. Roy Engineering College, Durgapur (Society)

Dr. B.C. Roy Engineering College Fraternity pays respectful homage to Late Dulal Mitra, former President of Dr. B.C. Roy Engineering College, Durgapur (Society). His relentless pursuit of “Excellence in Education” had brought Dr. B.C. Roy Engineering College to the centre- stage of Engineering and Management Education in the district of Burdwan and the State of West Bengal. It was not in vain that in 2013, he was conferred the “Edupreneur Award” of Vice-Chancellor’s choice.



Dr. B.C. Roy Engineering College Fraternity pledges to uphold his vision of creating a vast pool of technically proficient human resource for the benefit of mankind.

“Na hi Jnanena Sadrsam Pavitram iha vidyate! “

Certainly there is nothing as pure as knowledge in this universe. Knowledge that not just lays the foundations to successful careers but also enriches the mind.

## FOREWORD



In today's rapidly evolving professional landscape, there is an increased obligation for judicial dissemination of technical knowledge for life-long success. We are living in an era where technological innovation is a dominant force for the growth and prosperity of a nation, and engineering has been an important driver of this innovation. It gives me great pleasure to welcome to this collaborative environment at Dr. B.C. Roy Engineering College is popularly known as "BCREC".

Our perseverance and endeavor are guided

by our vision to transform the lives of our students, through exemplary education and training, in their journey of discovery, understanding, awareness, and perfection of cutting edge knowledge, skills and competencies.

Quest of excellence has been assumed here as paramount importance in academic achievements along with curiosity for knowing more through depth of understanding, leadership quality and interpersonal skill. BCREC prides itself on providing its students, both undergraduate and postgraduate with state-of-the-art infrastructure, facilities, ambience and quality academic experience to prepare them as responsible and innovative global citizens having a firm grounding in their respective disciplines.

We are committed to maintain an environment which can facilitate encouraging enterprising skills of our students through professional competence and rich academic input by creation of new avenues and opportunities beyond the regular curriculum as well. The Institute have qualified, enthusiastic, and dedicated faculty, comprising of academicians with brilliant educational backgrounds, and industry experts. The institute has earned NBA Accreditation for two programmes and aspiring for all the programmes under its banner. I am confident that the team spirit of students, faculty and staff of the institution will take the institution to one of the best in the country in near future.

I warmly welcome you at our institute. I hope that apart from electrifying the campus life, you will make sure that you also enlighten the society with your knowledge and service.

Let the journey begin for a successful career.

With Best Wishes,

**Tarun Bhattacharya**

**General Secretary**

## **MESSAGE FROM THE PRINCIPAL**

Of late, there have been a sea change in the academic, economic and technological environments the world over. Age-old attitudes and conventional mind-set are being discarded everywhere. With its articulated vision of emerging as a major player in the global scenario, and with its economy unshackled and forces of competition unleashed, India too is treading the new path. The wave of change sweeping across the country and the world has thrown up myriad opportunities- at the same time posing daunting challenges for all sections of Indian society. Education is no exception to this changing scenario.

A tremendous feeling of confidence and power can be leveraged by the formulation of a clear vision backed by definite plans for taking engineering, technology, and management education to the desired level of competitiveness. A technical institution supported by high-end infrastructure is the basic prerequisite for producing quality engineers. For India, more than ever before, it is essential to bring together the world of science and technologies for meaningful interventions in the socio-economic sphere. Modern engineering institutions that cover a wide spectrum in the knowledge space should lead from the front in such endeavors by utilizing their quality manpower and infrastructure.

BCREC evolved through the concerted effort of like-minded professionals and philanthropic entrepreneurs who strove hard to create an institution of global standards of learning through the synergic application of creativity, innovation, and discipline. A solidgrounding in terms of domain knowledge, hands-on training, capacity building, and managerial skills has enabled BCREC to emerge as an esteemed center of learning in the fields of engineering, technology, management, and computer applications, and that too within a short space of time. The institute has also earned NBA accreditation for B. Tech inECE & CSE disciplines.

The locational advantage offered by the Durgapur-Asansol Industrial belt has provided BCREC immense scope for direct interaction with large industries at every level. Dedicated Cells for Industry-Institute Partnership, National Service Scheme (NSS) Cell, and Entrepreneurship Development Cell have been set up by the Institute to install within the students-industry orientation and social responsibility.

The Institution emphasizes on enhancing the standard of education through a judicious admixture of academic and industrial expertise for inducting managerial skills and R&D impetus and e-learning amongst students and faculty members with a view to creating a world-class R&D infrastructure in an atmosphere conducive to the teaching-learning



process. The deep commitment and dynamism of the management also help in inculcating within the students' preparedness for facing competitiveness at every level.

I expect that our students would come forward to become a part of this whole learning process and take advantage of all the facilities that the Institution is providing to emerge as assets for the industry as also for society.

“Build your own dreams, or someone else will hire you to build theirs”

**Prof.(Dr.) Sanjay S Pawar**

**Principal**

## OUR INSPIRATION



Dr. B.C. Roy Engineering College Society (BCREC) was named after the legendary physician Dr. Bidhan Chandra Roy, [1882–1962] the second Chief Minister of West Bengal in India who was a great visionary and a karma yogi. With steely determination, he worked like a crusader and took great pains to build a new West Bengal over the wrecks of a partition torn ravaged state. The Steel city of Durgapur is his dream child and a unique creation of his noble vision.

As a mark of our respect, Dr. B.C. Roy Engineering College is our humble tribute to him. Dr. B.C. Roy Engineering College (BCREC) Durgapur was founded in 2000. Since then, the BCREC has transformed itself in many ways. The college was modelled after the best institutions of the country, and even today retains some of these features.

The objective of the college was to effect re-organization of the system of education in the state so as to develop technical, technological education and research in engineering. Earlier, the college was affiliated under the University of Burdwan. Later, it got affiliation under the Maulana Abul Kalam Azad University of Technology (Formerly West Bengal University of Technology).

## Structure of Dr. B.C. Roy Engineering College Society (BCREC Society)

Sl. No.	Name	Designation	Address	Mobile No
1.	Dr. Satyajit Bose	President	The Mission Hospital , 219(P), Immon Kalyan Sarani, Sector 2C, BidhanNagar, Dugapur - 713212	9800881701
2.	Tarun Bhattacharya	General Secretary	52, MOULANA AZAD SARANI, City Centre, Durgapur – 713216	9434011952
3.	Ratan Roy Chowdhury	Assistant Secretary	5/37, MAXMULLER PATH, City Centre, Durgapur – 713216	9434646746
4.	Jernail Singh	Treasurer	MWAV02, BENGAL AMBUJA City Centre, Durgapur – 713216	9434053499
5.	Mita Mitra	Vice- President	MWAV-11, BENGAL AMBUJA City Centre, Durgapur – 713216	9474556013
6.	Nikhil Sikdar	Executive Member	2/2, MICKLE SARANI SUBHASPALLY, BENACHITY Dugapur – 713213	7407252244
7.	Tapati Bhattacharya	Member	52, MOULANA AZAD SARANI, City Centre, Durgapur – 713216	9735206666
8.	Rita Singh	Member	MWAV02, BENGAL AMBUJA City Centre, Durgapur – 713216	9832194123

## Brief Details About Us

Name of Head of the Institute	:	<b>Prof. (Dr.) Sanjay S Pawar</b>
Exact Designation	:	<b>Principal</b>
Phone number with STD code	:	<b>(0343) 2504121</b>
FAX number with STD code	:	<b>(0343) 2504059 / 2503424</b>
Email	:	<b><a href="mailto:principal@bcrec.ac.in">principal@bcrec.ac.in</a> / <a href="mailto:info@bcrec.ac.in">info@bcrec.ac.in</a></b>
Highest Degree	:	<b>Ph.D. (IIT Bombay)</b>
Field of specialization	:	<b>APPLIED SCIENCES.</b>
Name of the affiliating University	:	<b>Maulana Abul Kalam Azad University of Technology, West Bengal (Formerly West Bengal University of Technology )</b>
Address	:	<b>BF – 142, Salt Lake City, Kolkata – 700064</b>
Website	:	<b><a href="http://www.makautexam.net">www.makautexam.net</a> <a href="http://www.makautwb.ac.in">www.makautwb.ac.in</a></b>
Latest affiliation period	:	<b>2023-2024 Academic Year</b>

- Members of Academic Advisory Body Duly constituted and functioning regularly by the Director as Chairman, all HOD's as members and Registrar as Convener of the committee. Details are given below:

Sl. No	Name	Designation
1.	Prof. (Dr.) Sanjay S Pawar, Principal	Chairman
2.	Prof. (Dr.) Chandan Chatteraj, HOD (ME)	Member
3.	Prof. (Dr.) N.N.Pathak, HOD(ECE)& Dean(SW&A)	Member
4.	Prof. (Dr.) Kanchan Chatterjee, HOD (ME)	Member
5.	Prof. (Dr.) K.M.Hossain,HOD, Vice-Principal	Member
6.	Prof. (Dr.) Chandan Konar,HOD(CSE)	Member
7.	Prof. (Dr.) Suman Bhattacharjee, HOD (IT)	Member
8.	Prof. (Dr.) Sanjay Sengupta, HOD (CE)	Member
9.	Prof. (Dr.) Susanta Dutta, HOD (EE)	Member
10.	Prof. (Dr.) Jayanta Pal, HOD (BSH)	Member
11.	Prof. (Dr.) Somroop Siddhanta, HOD (FMS)	Member
12.	Prof. (Dr.) D Mukherjee, Adviser(CSE&IT)	Member
13.	Prof. (Dr.) C. K. Ghosh, HOD (R&D)	Member
14.	Prof. (Dr.) Pabitra Kumar Dey, HOD, MCA	Member
15.	Prof. Subhashish Pal, HOD (Exam)	Member
16.	Prof. (Dr.) S. R. Das, TIC (Chemistry)	Member
17.	Prof. (Dr.) Sashi Bajaj Mukherjee, TIC (Maths)	Member
18.	Prof. Debadrita Sen, TIC (English)	Member
19.	Prof. (Dr.) Arunava Mookherjee, FMS	Member
20.	Prof. Koushik Senapati, Assoc. Prof. (Maths)	Member
21.	Dr. Aloke Kahali, Head (Admn)	Member
22.	Dr. Arindam Mondal, Registrar	Convener

- Nature and Extent of involvement of Faculty and students in academic affairs/improvements Each and every faculty member has been involved with mentoring for maximum of 20-25 students from all the years to provide specialized guidance to the students in matters of academics, career, personality development, social obligation, etc. Regularity in the classes is being treated as a “**toppriority**”. Head of the Departments regularly monitor the class schedule of the day in the early morning hour and engage substitute in case of absent teacher. As per directives of AICTE and the University, regular classes have been provided in the Class Routines for MOOCs courses and MAR activities. Students are also reciprocating with the initiatives taken by their teachers.
- **Mechanism / Norms and Procedure for democratic/good Governance-** Dr. B. C. Roy Engineering College, Society recognizes the need for decentralization

for the growth of the college and accords autonomy commensurate with the level of management. Heads of the departments are appointed who are given autonomy for efficient governance. The roles and responsibilities of administrators/decision makers for various assigned jobs listed below clearly depict the delegation of authority, providing operational autonomy leading to a decentralized governance system.

- Director implements and monitors the academics to cater to the college's vision and mission. He is responsible for the academic development of the college and monitors the progress of various teaching/learning processes. He also monitors Research and Development activities in the college through Project Monitoring & Industrial Liaisoning Cell (PMIL).
- Registrar is responsible for supervision and management of all administrative and operational functions.
- Head of the departments are responsible for the day-to-day academic activities and assuring quality in teaching and learning process and administrative functions of the department and monitor various students' activities.
- In addition, the Librarian, Professor-In charge of Examination, Workshop Superintendent take care of library resources, examination, and workshop related activities. Other support functions like an admission of the students are handled by Senior Manager (Administration), Finance & Accounts related issues are looked after by Senior Manager (Finance). The placement Cell is looked after by the Head (Training & Placement) and the campus is looked after by the Campus Administrator and his team.
- **Student Feedback on Institutional Governance / Faculty Performance-** Student feedback is taken twiin a year (once every semester) online and appropriate action is taken after analysis of the same in the Academic Council Meeting.







# **1. COLLEGE PROFILE & FACT SHEET**

## **1.1 Brief Background**

BCREC evolved from a coming together of like-minded professionals and philanthropic entrepreneurs with an objective to create an institution of global standards of learning through synergic application of creativity, innovation, and discipline. Established in the year 2000, BCREC Society within a short span of time made its mark as the center of excellence in the fields of engineering, pharmacy, and management education.

Dr. B.C. Roy Engineering College has been recognized as an e-Govt. Campus by the Engineering Watch (in association with National Informatics Centre, Govt. of India) among the 100 prestigious colleges nationwide.

## **1.2 Affiliations, Approvals & Accreditation**

- Approved by AICTE, New Delhi
- Affiliated to the 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 programs. B.Tech. in CSE & ECE

## **1.3 Medium of Instruction**

The medium of instruction and examination mean to be in English.

## **1.4 College Timings**

Tuesday to Saturday from 10 am to 5.30 pm.

## **1.5 BCREC Campus**

### **1.5.1 Location**

Dr. B.C Roy Engineering College is located in a tranquil and conducive ambiance creating an ideal learning environment to stimulate intellectual and personal growth. The city is now both an industrial hub as well as an educational hub.

The very location of the institute itself, being in proximity to vast knowledge application areas, guarantees the fundamentals of quality technical and professional education. The college is established in an eco-friendly and sylvan surrounding, easily approachable by land-route from tertiary areas of Asansol, Raniganj and Burdwan. Kolkata is 150 km by rail and 186 km by road, and is just 3 hours journey from Kolkata.

## 1.5.2 Salient Features

### *Sprawling Green Campus*

- State-of-the-art Research Wing
- Qualified and Experienced Faculty
- Strong Alumni
- Need based Scholarships
- Multipurpose Air-conditioned Auditorium
- Zero tolerance to Ragging
- Separate Hostels Boy's & Girl's
- Digital Library with MOOCS & NPTEL
- High achievement in campus placements



**Fig. 1.1- Areal View of the BCREC Campus**

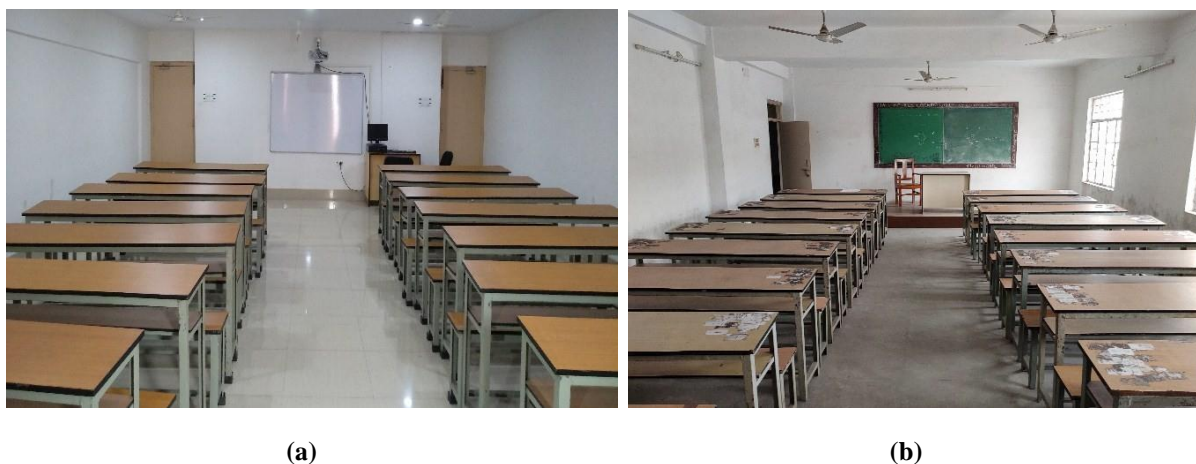
## 1.6 Facilities

### 1.6.1 Classrooms

The institute is structured with well-furnished classrooms having latest teaching aids. All classrooms are well lit, airy with spacious seating arrangements. The lights, sound, and air circulation make the room physically comfortable to support the teaching / learning enterprise.

The institute also has dedicated smart classrooms for all courses.

A Smart Classroom is a presenter friendly classroom environment conducive to the teaching / learning process. All smart classrooms are equipped with OHP linked to a computer with high speed data networks and projection screen. The classrooms are acoustically built so as to prevent echo and reverberations. They are designed to promote maximum interaction between the faculty and the students.



**Fig. 1.2- Photos of the Classroom (a) Smart Classroom & (b) Traditional Classroom**

### **1.6.2 Wi-fi Facilities**

The institute provides staff, faculty and students access to the wireless network on campus where available.

### **1.6.3 Multi-speciality Gymnasiums**

A healthy body is the essence of a healthy mind. The institute provides well equipped multi-speciality gymnasiums for separately girls and boys alike.

### **1.6.4 Health Centre and Medical Facilities**

The college maintains a Medical Unit to provide medical aid to students under the expert supervision of our experienced resident physician in collaboration with The Mission Hospital, Durgapur. The MOU with The Mission Hospital provides for a Doctor positioned at the College premises from 11:00 am to 5:00 pm. Provision for ambulance services for admission in The Mission Hospital is available for 24 hours. In addition, a college car is always stationed for any medical emergency of any student during College hours.





(a)



(b)

**Fig. 1.3- Medical Facilities in the Campus (a) Medical Centre & (b) Dispensing Room**

### 1.6.5 Reprographics / Xerox Point

Photocopying facilities are available within the campus at multiple points to cater to the reprographic needs of all.

### 1.6.6 Uninterrupted Power Supply

The institute has a dedicated HT power supply, generator backup, and 10 KVA UPS, especially for the computer labs.

### 1.6.7 Banking Facilities

The campus has an AXIS Bank ATM and SBI ATM that provide 24 hrs ATM Banking facility apart from the fully operational M/s SBI Bank branch within the premises to facilitate monetary transactions for students and faculty alike.



(a)



(b)

**Fig. 1.4- Banking Facilities in the Campus (a) Axis Bank ATM & (b) SBI Bank**

### **1.6.8 Educational Loan**

The institute provides all assistance to open easy and prompt educational loan for the eligible students.

### **1.6.9 Cafeteria and Food Station**

The college has two food stations that provide good quality snacks and meals to satisfy the taste buds of the faculty and the students at a very reasonable price. Even guardians who visit their wards may avail of the facility.



**Fig. 1.5- Cafeteria in the College Campus**

### **1.6.10 Open Air Auditorium & Multipurpose AC Auditorium**

BCREC has two auditoriums, namely the Nazrul Mancha and a fully equipped AC-Auditorium. Apart from that the Instituted also has one Seminar Hall named Albert Einstein Hall. The Albert Einstein Hall is a fully air-conditioned synchronized with sound systems and projectors facility for conduct of guest lectures, seminars, etc. Nazrul Mancha, an open-air auditorium that accommodates over 900 students for cultural activities, fests etc.



**Fig. 1.6- Open Air Auditorium**

### 1.6.11 Departmental Computer Labs with High-Speed Internet

Institute has state-of-the-art computer labs with high speed leased line internet connections with powerful servers and 100% UPS backup. Each student is provided with personal email id and password with adequate storage space on the student's server. There are also high-quality laser printers, DMP printers, scanners, and OHP and multimedia projectors. Students are encouraged to maximize their learning and computer skills by constant use of internet for research, making notes, submissions and presentations. Total computer resource is over 820 for entire BCREC. Proficient laboratory instructors are always there to help the students in the lab.

## 1.7 Accommodations

### 1.7.1 Halls of Residence (Hostels)

BCREC has well ventilated accommodations for boys' and girls' students within the campus that emote a pleasant feeling and enhance learning. Hostels are managed by female matrons (Girls Hostels) and male wardens (Boys Hostels) respectively apart from 24 hrs security is provided in each of the hostel blocks.

Each hostel offers complete facilities including boarding and lodging, common room, internet and Wi-fi, room telephone service etc. The following hostels (3-Boys /2-Girls) are currently available.

**Table 1.1- Number of Students Residing in Different Hostels**

<b>Boys</b>	<b>Girls</b>
Satyen Bose Hall of Residence Capacity: 376students	Mother Teresa Hall of Residence Capacity: 208 students
Chittaranjan Boys Hostel Capacity: 240students	Nivedita Girls Hostel Capacity: 244 students



**Fig. 1.7- Boys' Hostel in BCREC Campus**

### **1.7.2 Guidelines for Hostel Accommodation**

Accommodation at boys' and girls' hostels being limited, students are advised to apply immediately after admission in separate prescribed form available in our corporate office. Admission to hostels is for one year duration and is subject to renewal annually depending on good conduct. Accommodation is allotted to students based on need, financial position and other allied aspects.

Hostel charges and seat rents etc. once paid cannot be refunded.

### **1.7.3 Guest Rooms and Professors Enclave**

AC / Non AC guest rooms are also available for guardians on temporary basis on payment. In campus residential flats for Professors and high officials is located beside the girl's hostel to provide utmost security for students.



**(a)**



**(b)**

**Fig. 1.8- Residing Facilities in BCREC Campus (a)For Faculty Members & (b) For Guests**



### **1.7.4 Central Library and Departmental Library**

The well-equipped Dr. Meghnad Saha Central Library is housed in a separate sprawling three-storied building with internet connectivity and collections of text books, reference books, CD-ROM/DVD discs and online databases. It is a participant in the INDEST-AICTE Consortium and subscribes to IEL online and DEL online database besides the DELNET database.

The Central Library has a collection of over 80,000 books. It also accommodates a book bank from where students can borrow books for a longer duration. There are also departmental libraries attached to teaching departments. The composite holdings of all these libraries can be accessed for search from different corners of the college building on OPAC (Online Public Access Catalogue) run on time tested LIBSYS software. The library also provides reprographic and inter-library loan services.



**Fig. 1.9- Meghnad Saha Central Library**

### **1.7.5 DELNET (Developing Library Network)**

Our institute is an Institutional Member of DELNET (IM-595). Accesses millions of Networked Library Resources through DELNET IP-Based Discovery Portal. It also avails facilities for DDS (Document Delivery Service.)

### **1.7.6 NDL (National Digital Library)**

Our college is an Institutional member of NDL (National Digital Library of India), an initiative of Ministry of Human Resource Development under its National Mission on Education Information and Communication Technology (NMEICT). National Digital Library (NDL) is a pilot project to develop a framework of virtual repository of learning resources with a single-window search facility. Filtered and federated searching is employed to facilitate focused searching so that learners can find out the right resource with least effort and in minimum time. It is developed and hosted at IIT Kharagpur.

The institute also subscribes to IEEE(ASPP) package which contains 179 online journals with backfiles access since 2005 in the fields of Computer Science & Engineering, Electrical, Electronics, Telecom & related disciplines.

In addition to that Elsevier (Science Direct) which contains 275 journals with back files access since 2000, in the fields Engineering and Computer Science are also subscribed.

Our college is a Local Chapter of NPTEL (National Programme on Technology Enhanced Learning), an initiative by seven pioneer Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and IISc Bangalore and funded by MHRD, Govt. of India. NPTEL provides E-learning through online Web and Video courses in Engineering, Science and Humanities. This initiative offers online courses and certification in various topics. Contents for the above courses were based on the model curriculum suggested by All India Council for Technical Education (AICTE) and the syllabi of major affiliating Universities in India. NPTEL has started offering online certification courses through its portal.

There are 10 hours, 20 hours, as well as 40 hour courses offered twice a year.

The college publishes a journal of repute “The Bulletin of Engineering and Science”, which publishes articles not only from Science and Engineering departments but also IT and Management.

BCREC is committed to provide research and development activities in its campus. Research & Development Centre (R & D) of the college is a unique section which can accommodate several researchers at a time. The adjacent CAD/CAM/ROBOTICS Laboratory provides the required tool room support. The faculties are also encouraged to explore the research projects and participate in paper presentation in symposia, conference or workshops, model displays etc. Often the syllabus oriented study falls short to fulfil the demands of the industry. Keeping this in mind, BCREC organizes seminars and workshops in regular intervals, where stalwarts from both academia and industry share their knowledge and experience with the students on modern day issues.

Department of Electronics & Communication Engineering (ECE), of Dr. B.C. Roy Engineering College, Durgapur had signed a joint MoU with Xilinx, USA and Core EL Technologies India Pvt. Ltd. for up gradation of infrastructure in VLSI, Embedded Domain and other IT related topics and also for research programmes, projects and student internships. The intention of bringing innovation in the field of Modern Electronics and to enhance the quality of education imparted to students of the Electronics and Communication engineering disciplines.

Dr. B.C. Roy Engineering College, Durgapur is a Nodal Centre (NC) of IIT- Bombay Spoken Tutorial Project, nominated by Maulana Abul Kalam Azad University of Technology (MAKAUT). This empowers all students pursuing Higher Education to learn a range of IT Skills, from General IT/ Computer Skills, Programming Software to lucrative job oriented software training. The courses are useful for both jobs (Skill focus courses) and academics (Syllabus focus courses). The program is funded by MHRD, Govt. of India and Part of NMEICT. Hence, the Courses, Training, Day to Day Guidance and Certificates are all completely FREE of COST for life.

Dr. B.C. Roy Engineering College, Durgapur is a Nodal Centre for Virtual Lab which is a venture of IIT; Kharagpur under the MHRD sponsored Project. The Lab covers Analog Signals, Networks & Measurement & Basic Electronics like subjects which have direct link to Electronics & Communication Engineering/ Electrical Engineering/ Applied Electronics & Instrumentation Engineering disciplines.

## **1.8 Other Important Details**

### ***Professional Society Chapters/Membership***

#### **1. Indian Society for Technical Education (ISTE) Chapter**

BCREC has an ISTE Chapter (Chapter Code: WB-08) since 2008 with twenty five members.

#### **2. The Institution of Engineers (India) Students' Chapter**

BCREC has an IE (I) Students' Chapter (Chapter Code: ECSC/713206/BCRE) with more than hundred students members and twenty faculty members.

#### **3. Computer Society of India (CSI) Membership**

CSE & IT of BCREC has CSI membership with four members.

#### **4. Indian Society of Earthquake & Technology (ISET) Chapter**

### ***MOU with IIT, Alumni Venture (CLASSLE)***

BCREC is perhaps the only institute in this part of the country to have strategic tie-ups with renowned IIT Alumni Venture CLASSLE, for technical improvement of students including career assistance.

### ***Research and Development Initiatives***

A Cell namely Project Monitoring and Industrial Liaising (PMIL) promote collaborative and sponsored research activities in the College. This Cell is actively working in close association with all the departments to augment the process and helping the young faculties in framing project proposals in collaboration with premier institutions and industry. Under the guidance of the Director, BCREC, the PMIL Cell also provides innovative approaches for development of new technologies, product and services. Embedded with the existing infrastructure like modern computational facilities, Application Software, Machinery, Instruments and huge knowledge-resource of the faculty, motivational research impetus runs in full-swing in the college. The faculty members continuously update themselves through global research initiatives, consultancy activities, exposure visits, academic development programmes, etc. BCREC is surrounded by several industries like SAIL-DSP, ASP, Thermal Power Plants, etc. and research organisations like CSIR-CMERI, etc. BCREC fully explores possibility of liaising with them. Currently about 10 research and consultancy project proposals are ready for various national funding agencies like DST-SERC, AICTE-RPS, NI-MSME, MNRE, ARDB, NI-MSME, MNRE, ARDB, AICTE-MODROBS, BRNS, IEI, etc. with substantial budget outlay.

During the past one year, faculty members and research scholars of BCREC published several research papers in peer reviewed journals and many papers were presented in national and international seminars/conferences. Some of the research papers have been indexed in international databases like Scopus, Google scholars, SCI, Index Copernicus, etc.

BCREC actively promotes students research and projects through collaborative platforms like

IEI (India), IEEE xplore, etc. which have the distinction of being appreciated at national and international forum.

### ***Texas Instruments Innovation Lab***

Department of Electronics & Communication Engineering (ECE), of Dr. B.C. Roy Engineering, Durgapur had signed a joint MoU with Texas Instrument (TI), USA to set up TI Centre of Excellence and TI Innovation Lab for academic and research purpose. TI products are used worldwide by educators and researchers for Analog and digital communication analog circuit design, robotics, mechatronics, control and communication applications.

This TI Centre of Excellence gives students the opportunity to validate their knowledge and skills at a professional level. Hand-on experience of work and wide exposure during study period will not only enhance our students' chances for early placement but will also create and assure new opportunities for our students in the job market.

Moreover here we developed PCB (Printed Circuit Board) fabrication Lab. Though it is not included in the University Syllabus but interested students will gain the knowledge of fabrication techniques which will help them in their future professional life.

### ***Alumni Association***

At BCREC, we consider our alumni as the goodwill ambassadors and they have done us proud by proving their worth wherever they are. The Alumni Association is a platform of interface between our ex-students and the Institute. This platform not only facilitates effective and faster communication among the alumni members but also provides an opportunity to communicate throughout their life.



**Fig. 1.10- Alumni Association in BCREC**

### ***International Collaborations***

Expanding and strengthening collaboration worldwide is one of important focus areas of BCREC's strategy. As a result, BCREC has initiated partnerships with outstanding



academic and other institutions across the globe to expand the student experience, faculty growth and contributions, and the impact of research done in the college.

BCREC has taken initiative to explore the possibilities of student exchange programmes through agreements with prestigious international institutions, like Lincoln University, Malaysia where students of this college will go for Summer School Programmes, Industrial Training, Projects, etc. It is not the students alone, the faculties will also be going to several Universities on Faculty Exchange Programmes to be at par with International Standard.

### ***Industry-Institute Interaction (IIPC)***

With the onset of globalization and opening up of Indian economy, the competition among industries have become stiff. To bridge the gap between the demand of industries and our urgent need to prepare students for jobs, experts from industry visit regularly to deliver special lectures, seminars to students to build their knowledge on latest cutting-edge technology and make them aware on the industry practices.

### ***Entrepreneurship Development Cell (EDC)***

Dr. B.C. Roy Engineering College has created budding entrepreneurs over the years through active participation of students in the “EDC” i.e. Entrepreneurship Development Cell. The social behavioural aspects and intelligent quotient of the students is nurtured to create innovative projects and also keeping in mind the social responsibility. Through the EDC we try to help the society at large and also develop the entrepreneur acumen of the students.



**Fig. 1.11- Entrepreneurship Cell in BCREC**

### ***Finishing School Activities***

Our finishing school activities are intended towards giving finishing touches to our students through extensive coaching on communication skills, personality development and professional training activities. The desirable fundamental qualities of an engineer include logical and practical thought process, excellent communication skill and other soft skills, good work ethics, good computer literacy supported by a solid backing of sound technical education. An engineer is viewed as an innovator, planner, designer, manager and a producer of goods and services.

### ***Soft Skills and Personality Enrichment***

At BCREC along with focus on academic excellence we lay a lot of stress on holistic development of students in areas other than core academics which is the need of the hour. Personality development and Soft Skills programs are uniquely developed to groom the students to face the expectation and challenges of the professional world. Students are assessed on a regular basis and regular feedback is taken to ensure overall improvement and enrichment of their personalities. The sophisticated language lab is used to enhance communication skills.

### ***Vocational Training (VT)***

The Vocational Training Programme is compulsory for all B.Tech students as per WBUT curriculum. The duration of VT is at least one & half months. It is to be completed during the periods between end of 3rd year, sixth semester and beginning of 4th year seventh semester.

Students participate in wide range of activities through Student Development Activity Clubs such as the Debate Club, BCREC Creative Mates Photography Club, Karate Club of BCREC, and other formal and informal clubs department wise.

Whether a budding sports star of the future or a sporadic exerciser, our state of the art sports facilities, backed up with a selection of excellent services, provide the ideal venue for a range of activities, available to all students, at all levels.

### ***Campus life at BCREC***

Campus life at BCREC has a vast array of sports activities The Outdoor facilities include athletics (Track field with all accessories), Football, volleyball, basketball, badminton courts etc. The college provides excellent indoor facilities for table tennis, chess, carom etc. In addition to this, college have a yoga centre, where a certified yoga teacher takes the classes. The Annual Sports Day Celebrations are organised every year on a grand scale with enthusiasm and fervour. Cultural and sports events bolster the confidence and team spirit of the students and participation in sports gives a boost to one's concentration and competitive spirit.

Horizon - An engineer's paradise to portray the innovativeness and agility of a techie mind, the technological fest of BCREC. The festival of engineers mainly focuses on different innovative topics like Robotics, Ethical Hacking etc. Full of innovative events and exhibition, the students at

the tech fest also participate and compete with top institutes of the country and also generates media attention in print as well as electronic.

A student's first step towards a rich and fulfilling campus life at BCREC. The institute gets awakened with cheers from newly enrolled students of B.Tech, M.Tech, MCA and MBA disciplines along with their parents and guardians that converges from different destinations to their institution of choice. The "fresh" students are welcomed and oriented with the rules and conduct of the institute.

This College is the first private college in the vicinity to start the NCC program being registered at the 14 Bengal Battalion with headquarters at Asansol. Students are encouraged to join the NCC programme. This instils discipline amongst them. The NCC troops invigorated under the leadership of Prof. I/C Smt. S. Lahiri puts up a grand march past in honour of the Indian Tricolour especially on India's Independence Day and Republic Day every year.

In addition Rabindra Jayanti, Republic Day and Independence Day, religious festivals like Janmastami, Sree Sree Saraswati Puja, Viswakarma Puja etc. are celebrated.

The financial strategy of the institute places student development as a key priority. The Tuition Fee Waiver (TFW) Scheme of AICTE is available only for undergraduate level engineering course for economically backward meritorious students of West Bengal up to maximum of 5% of sanctioned intake per course are available on supernumerary basis over and above the sanctioned seats for admission. The waiver is limited to the tuition fee only but all other fees except tuition fee will have to be paid by the beneficiary. The selection of candidates for the Tuition Fee Waiver Scheme shall be decided on the basis of merit and preference of eligible students in the State Joint Entrance Examination. A considerable sum from BCREC Student Development Fund is effectively put to use for the academic development and improvement. To maximize the potential of the students, the Minority Welfare Merit-cum-Means Scholarship scheme allows students from humble backgrounds to avail subsidized tuition fees at all the campuses of BCREC. Many students in the past have benefitted from this scheme as well as other schemes available such as the SC/ST and OBC Post Matric Scholarship Scheme that caters to financial assistance to students from Scheduled Caste / Tribes or other backward classes.

### ***Sports Facilities***

BCREC have a good reputation in the region for their sports & culture. BCREC use to participate in different sporting events across the sub-division. In the BCREC campus, we have a great facility for different sports. Football, Cricket, Basketball, Volleyball, Karate, Badminton, Yoga are the different games & sports facilities available in the campus. The football ground has the maintenance facility where periodic maintenance is done. For the sports like karate, football, yoga- BCREC have appointed professional trainers & coaches who are dedicated and reputed in the Durgapur sub-division.



(a)



(b)



(c)

**Fig. 1.12- Sports Facilities in BCREC (a) Yoga & Meditation Centre, (b) Football Ground & (c) Drip Irrigation System for Watering in the Ground (Maintenance)**

### ***Code of Conduct***

All students must abide by the Rules and Standing Orders of the College. Violation of Rules and Standing Orders of the college or any misconduct inside and outside the College Campus or in Halls of Residence, will render a student liable to disciplinary action and may lead to expulsion from the college. At the time of admission, students will have to sign an undertaking to this effect and also to be endorsed by the guardians.

Further, if as a result of any demonstration or strike, any property of the College Campus or Halls of Residence is damaged, the cost of the same will be recovered directly from the students identified wherever possible or else collectively from such group of students as are responsible for the



demonstration or strike.

### ***Attendance and Examination***

The strict observance of attendance and the examination sanctity has been a prime asset of the institute. Each student is required to secure at least 75% attendance as per WBUT norms in both theory and practical classes. Failure to attain the required %age debars a student for appearing in semester examinations.

### ***Examination Misconduct***

Any action which prejudices the integrity of the University Examinations shall be considered to be an academic misconduct and shall be punishable by appropriate disciplinary action. Academic Misconduct includes cheating in examinations, assignments, project or any other test used in judging students' performance in the course of a programme of study. Impersonating another student or entering into agreement with another person to be impersonated is an act of examination misconduct.

### ***Discipline***

All students must abide by the rules and standing orders of the college, violation of which or any misconduct inside or outside the college campus may lead to disciplinary action as per the regulations and render a student liable to expulsion from the college. Students have to sign an undertaking to this effect for the above during admission. Further, if as a result of any demonstration or strike, any college property is damaged, the cost will be covered directly from the students who are identified or collectively from such group of students who are responsible for it. In case of non-identification of any student(s) mass fine shall be imposed thereon.

### ***Anti-Ragging Measures***

As per the latest amendment to UGC Regulations on curbing the menace of ragging in higher educational institutions, 2009 [<http://www.ugc.ac.in/page/Ragging-Related-Circulars.aspx>] ragging is defined as – “Any act of physical or mental abuse (including bullying and exclusion) targeted at another student (fresher or otherwise) on the ground of colour, race, religion, caste, ethnicity, gender (including transgender), sexual orientation, appearance, nationality, regional origins, linguistic identity, place of birth, place of residence or economic background. “

Ragging in any form on any student inside or outside the college campus or hall of residence is strictly prohibited as per W.B. Govt. Anti-Ragging Act. Students found indulging in ragging shall be subject to strict disciplinary action including expulsion from the college. Supreme Court also has declared ragging as a nasty crime and advised for immediate serious action leading to even jail. The decision of the Principal and the anti-ragging committee regarding all matters on ragging based on the report of the anti-ragging committee will be final.

### ***Dress Code***

Proper dress code helps to bring a sense of discipline, sense of belonging and professional attitude leading to students' achieving a better edge in today's highly competitive job market.

The Institute strictly maintains its Dress Code and ID card as compulsory for all students. Students not in prescribed uniform and/or not possessing a valid ID card are liable to be debarred from entering the campus / attending classes. To maintain uniformity of colour and quality, the uniform has to be ordered from the authorized shop in Durgapur, duly approved by the college. Name of the shop will be given during admission. Please note that Dress Kit may be procured from outside as per College uniform sample.

**For Boys:** Grey Trousers with off-white (light cream) shirts with emblem emblazoned ties, black ties, black shoes with white socks.

**For Girls:** Grey Skirt with off-white shirt with emblem emblazoned ties, black shoes with white socks. Grey Salwar (Churidar) with off-white (light cream) kameez for girls also may be allowed but is not encouraged. Winter Navy Blue Blazers from November to February for both boys and girls is compulsory. Girls' students opting for Salwar-Kameez may wear navy blue cardigan during winter. Earmarked Tie and Metal Emblem will be supplied to each student by the college at a nominal cost during admission.

## 2. STUDENTS' STATISTICS

The Institute have All the B.Tech. courses have the duration of 4 years, whereas the M.Tech.courses are of 2 years duration. Master of Business Administration is of the duration of 2 years.On the other hand, the Master of Computer Application have the duration of 2 years; affiliatedto West Bengal University of Technology (WBUT) (currently known as Maulana Abul KalamAzad University of Technology (MAKAUT)). At present, M. Tech. programmes are offered in four disciplines. The number of students enrolled in both the batches are evenly distributed.Further, all final year students who appeared in the examination could complete their coursesuccessfully.

### 2.1 Details of Total Number of Seats during the Year 2022-23

Table 2.1- Number of Seats Approved by AICTE

Sl. No	Name of Course	UG / PG	Approved Intake for 2022-23
1.	Computer Science and Engineering	UG (B.Tech)	120
2	Electronics & Communication Engineering	UG (B.Tech)	120
3	Electrical Engineering	UG (B.Tech)	120
4	Information Technology	UG (B.Tech)	60
5	Mechanical Engineering	UG (B.Tech)	60
6	Civil Engineering	UG (B.Tech)	60
7	Computer Science & Design	UG (B.Tech)	60
8	Artificial Intelligence & Machine Learning	UG (B.Tech)	30
9	Data Science	UG (B.Tech)	60
10	Master in Business Administration	PG (MBA)	60
11	Master in Computer Applications	PG (MCA)	60
12	Modern Communication Engineering	PG (M.Tech)	18
13	Power System Engineering	PG (M.Tech)	18
14	Computer Systems and Technology	PG (M.Tech)	18
15	Mechanical Engineering	PG (M.Tech)	18

### 2.2 Details of the Admission during the Year 2022-23

#### 2.2.1 B. Tech Admission Process

Admissions are made through the Joint Entrance Examination (WBJEE) conducted by the West Bengal Joint Entrance Examinations Board (WBJEEB) and Joint Entrance Examination (JEE-MAIN) conducted by Central Board of Secondary Education (CBSE), New Delhi. After allotment of seats in counselling, candidates are required to complete further formalities for admission in the college campus.

### ***Age Restriction***

Candidate must be 17 (seventeen) years of age or above as on 30-06-2022. There is no upper age limit. A candidate born on or after 1-1-2002 is not eligible to appear in the WBJEE 2020.

### ***Eligibility Criteria***

- a. Candidate must have passed the qualifying examination i.e the '10+2' examination with Physics and Mathematics along with any one of Chemistry/ Biotechnology/ Biology/ Computer Science/ Computer Application as compulsory subjects with individual pass marks (in both theory and practical where ever applicable) in all the three subjects as stated above in regular class mode.
- b. Must have obtained at least 45% marks (40% in case of reserve category candidates) in the above three subjects taken together.
- c. Must have passed English in the '10+2' examination with at least 30% marks
- d. The Board of the said qualifying examination must be recognized by the Central Government or State Government concerned.

### ***Medical Fitness***

Medical Certificate will have to be produced during counselling from a Registered Medical Practitioner regarding physical and mental fitness as per prescribed format to be provided at the time of counselling.

### **2.2.2 B. Tech Lateral Entry**

- i) As a follow-up of AICTE scheme for admission of diploma holders to degree courses, Dept. of Higher Education, Govt. of West Bengal has introduced a scheme for lateral entry from Polytechnics directly to the 2nd year, subject to fulfilment of following conditions (subject to change from time to time).
- ii) Diploma holder should be a bonafide student of West Bengal and a resident of the state for at least 10 years.
- iii) Should have passed diploma courses from an AICTE approved polytechnic of the state with minimum 45% marks in the relevant discipline and learning Special Joint Entrance Examination of the state is the eligibility. B.Sc. students are also eligible after qualifying JELET exam.
- iv) Diploma holders will be admitted to degree courses in engineering in the same discipline the diploma was awarded (in case of IT Degree Course a diploma holder in Computer Engineering is eligible).
- v) Admission will be strictly on merit basis.
- vi) Lateral entry to 2nd year 1st semester level is limited to 20% of sanctioned intake.

### 2.2.3 M.Tech. Admission Process

Candidates desirous of seeking admission to post-graduate courses in engineering at Dr. B.C. Roy Engineering College, Durgapur, through WBUT-PGET Entrance Exam. Both GATE qualified and Non- GATE candidates should appear for PGET Entrance conducted by MAKAUT as per regulations.

The application for admission is to be submitted online at the university website [www.wbut.ac.in](http://www.wbut.ac.in). GATE qualified candidates are eligible for scholarship from AICTE as per AICTE norms.

### 2.2.4 MBA Admission Process

Duration- 2- year (full time) MBA Degree from West Bengal University of Technology (WBUT).

- i) Any graduate (10 + 2+ 3), final year student is also eligible
- ii) Selection will be on the basis of GD and PI
- iii) Must Qualify MAT/JEMAT [However CAT / CMAT candidates can also apply subject to the guidelines available from MAKUT time to time]

### 2.2.5 MCA Admission Process

Duration- 2-year fulltime MCA Degree from West Bengal University of Technology (WBUT).

Eligibility: Candidate should have the following qualification;

- i) A valid rank in JECA (Current Year) conducted by West Bengal Joint Entrance Examinations Board.
- ii) Recognized Bachelor's Degree of minimum 3 (three) years duration with Mathematics at 10+2 level or at graduate level.
- iii) Obtained at least 50% marks (45% marks for candidate belonging to reserved categories) at the qualifying examination.

**Table 2.2- Number of Students Admitted in the Academic Year 2022-23**

Sl. No .	Name of Course	UG / PG	Number of Students got admitted in 2022-23 (First Year & Lateral Entry)
1.	Computer Science and Engineering	UG (B.Tech)	141
2	Electronics & Communication Engineering	UG (B.Tech)	138
3	Electrical Engineering	UG (B.Tech)	128
4	Information Technology	UG (B.Tech)	69
5	Mechanical Engineering	UG (B.Tech)	89
6	Civil Engineering	UG (B.Tech)	50

Sl. No	Name of Course	UG / PG	Number of Students got admitted in 2022-23 (First Year & Lateral Entry)
7	Computer Science & Design	UG (B.Tech)	69
8	Artificial Intelligence & Machine Learning	UG (B.Tech)	34
9	Data Science	UG (B.Tech)	63
10	Master in Business Administration	PG (MBA)	60
11	Master in Computer Applications	PG (MCA)	60
12	Modern Communication Engineering	PG (M.Tech)	00
13	Power System Engineering	PG (M.Tech)	05
14	Computer Systems and Technology	PG (M.Tech)	07
15	Mechanical Engineering	PG (M.Tech)	05

## 2.3 Number of Students Completing Their Respective Degrees during the Year 2022-23

**Table 2.3- Number of Students Successfully Completing Their Studies in the Even Sem 2022-23 Academic Year**

Name of Course	UG / PG	Number of students appeared in the final year examination	Number of students passed in final year examination
Computer Science and Engineering	UG (B.Tech)	140	139
Electronics & Communication Engineering	UG(B.Tech)	137	134
Electrical Engineering	UG(B.Tech)	124	121
Information Technology	UG(B.Tech)	61	61
Applied Electronics and Instrumentation Engineering	UG(B.Tech)	15	15
Mechanical Engineering	UG(B.Tech)	125	113
Civil Engineering	UG(B.Tech)	60	55
Master in Business Administration	PG (MBA)	58	56
Master in Computer Applications (2-Year Course)	PG (MCA)	59	46
Modern Communication Engineering	PG(M.Tech)	2	2
Power System Engineering	PG(M.Tech)	5	4
Computer Systems and Technology	PG(M.Tech)	8	8
Mechanical Engineering	PG(M.Tech)	5	4

### 3. DETAILS OF THE FACULTY MEMBERS

The teaching role of faculty members reflects their centrality in addressing the educational mission among colleges and universities. As faculty members teach, they disseminate and impart basic or applied knowledge to students and assist students with the learning process and applying the knowledge. In this construction of the teaching role, the teacher is the content expert, and students are regarded as learners or novices to the academic discipline or field of study. Faculty members are expected to follow developments in the field so their expertise and knowledge base remain current. At many universities, faculty members are also expected to participate in creating the new developments that are taught, which sometimes leads to tensions about appropriate priorities for research and teaching roles.

In BCREC, we have a pool of experience faculty members with a rich industrial experience. Faculty members employ a variety of teaching strategies. In a circuit theory lecture section, a faculty member may deliver lectures that are complemented by regular and smaller applications. At an operation research class, faculty members may work side by side with students diagnosing and addressing optimized solution of a problem. In a surveying class, students may conduct experiments or field work in regular laboratory sessions to complement their growing conceptual knowledge and hone their inquiry skills. Students in a digital image processing class may work alongside faculty members, fellow students and house staff to process a digital image. In a graduate seminar, students may lead selected discussions supplemented by a faculty member's input and appraisal. Students enrolled in BCREC may attend class using technological real-time hook-ups or may independently complete learning modules and communicate with the project guide through e-mail only as needed or stipulated for the preparation of the project report. The teacher is also responsible for assessing students' learning, and a wide range of strategies may be used, such as tests, papers, and project-oriented demonstrations of knowledge. Following is the list of faculty members who are currently working in BCREC;

**Table 3.1- List of Faculty Members across all the Departments**

Name of the Full-time teacher	Designation	Name of the Department
Dr. Sanjay S Pawar	Principal & Professor	COMPUTER SCIENCE AND ENGINEERING
Dr. Chandan Konar	Professor & HoD	
Dr. Subir Gupta	Assistant Professor	
Dr. Anirban Bose	Assistant Professor	
Dr. Sumana Kundu	Associate Professor	
Dr. Arindam Ghosh	Associate Professor	
Bappaditya Das	Assistant Professor	
Hiranmay Samaddar	Assistant Professor	
Suvobrata Sarkar	Assistant Professor	
Saindhab Chattaraj	Assistant Professor	
Amitabha Mandal	Assistant Professor	
Sabbir Reza Tarafdar	Assistant Professor	
Kalpana Roy	Assistant Professor	
Biswajit Mondal	Assistant Professor	

Name of the Full-time teacher	Designation	Name of the Department
Biswadeb Goswami	Assistant Professor	COMPUTER SCIENCE AND ENGINEERING
Sanjib Saha	Assistant Professor	
Sayed Zahir Hasan	Assistant Professor	
Anandaprova Majumder	Assistant Professor	
Ruma Ghosh	Assistant Professor	
Biswajit Saha	Assistant Professor	
Rajib Kumar Mondal	Assistant Professor	
Arun Kumar Sadhu	Assistant Professor	
Chandan Das	Associate Professor	
Joyjit Patra	Assistant Professor	
Sovan Bhattacharya	Assistant Professor	
Ms. Monalisa Chakraborty	Assistant Professor	
Susanta Karmakar	Assistant Professor	
Paragkanti Chattopadhyay	Assistant Professor	
Atanu Maity	Assistant Professor	
Debkanta Chakraborty	Assistant Professor	ELECTRONICS & COMMUNICATION ENGINEERING
Dr. Narendranath Pathak	Professor & HoD	
Dr. Khondekar Mofazzal Hossain	Professor	
Dr. Sarit Pal	Professor	
Dr. Tapas Mondal	Associate Professor	
Dr. Tribeni Prasad Banerjee	Associate Professor	
Dr. Alope Saha	Associate Professor	
Dr. Rajdeep Ray	Assistant Professor	
Dr. Aritra Bhowmik	Assistant Professor	
Dr. Mrinmoy Chakraborty	Assistant Professor	
Dr. Rajib Banerjee	Assistant Professor	
Dr. Sourav Moitra	Assistant Professor	
Dr. Ankita Mitra	Assistant Professor	
Dr. Anup Kumar Das	Assistant Professor	
Keka Hajra	Assistant Professor	
Koustav Roy	Assistant Professor	
Tapas Roy	Assistant Professor	
Anirban Chattopadhyay	Assistant Professor	
Dipta Chaudhuri	Assistant Professor	
Dr. Abhijit Banerjee	Assistant Professor	
Debipriya Dutta	Assistant Professor	
Nilkamal Bhunia	Assistant Professor	
Moutusi Mondal (Roy)	Assistant Professor	
Pradipta Sarkar	Assistant Professor	
Dr. Ardhendu Sekhar Chattopadhyay	Assistant Professor	
Indranil Sengupta	Assistant Professor	
Ms. Subhadra Debroy	Assistant Professor	



Name	Designation	
Moloy Mukherjee	Assistant Professor	
Ramkrishna Rakshit	Assistant Professor	
Soumendra Pain	Assistant Professor	
Samujjwal Roy	Assistant Professor	
Surajit Batabyal	Assistant Professor	
Dr. Saurav Ranjan Das	Associate Professor & HoD	Basic Science & Humanities
Dr. Jayanta Pal	Associate Professor	
Dr. Suneeta De	Assistant Professor	
Dr. Santanu Patra	Assistant Professor	
Dr. Shashi Bajaj Mukherjee	Assistant Professor	
Dr. Madhusree Kole	Assistant Professor	
Dr. Sourav Bhattacharya	Assistant Professor	
Koushik Senapati	Associate Professor	
Debadrita Sen	Assistant Professor	
Sreejata Sen Sharma	Assistant Professor	
Sarabjeet Lahiri	Assistant Professor	
Subhashish Pal	Assistant Professor	
Sudip Kr. Gorey	Assistant Professor	
Sukarna Dey Mondal	Assistant Professor	
Dr. Jaya Bhattacharjee (Mukherjee)	Assistant Professor	
Dr. Avijit De	Assistant Professor	
Sohini Ghosh	Assistant Professor	
Sreeparna Bhattacharya	Assistant Professor	
Dr. Sukalpa Dey	Assistant Professor	
Dr. Taniya Chakraborty	Assistant Professor	

Name of the Full-time teacher	Designation	Name of the Department
Dr. Sumit Banerjee	Professor	ELECTRICAL ENGINEERING
Dr.Susanta Dutta	Associate Professor & HoD	
Dr. Dola Sinha	Assistant Professor	
Dr. Sanjoy Kumar Saha	Assistant Professor	
Dr.Tushnik Sarkar	Assistant Professor	
Dr.Tapan Kumar Chattopadhyay	Assistant Professor	
Dr. Sourav Paul	Assistant Professor	
Dr. Sneha Sultana	Assistant Professor	
Dr. Chaity Sarkar	Assistant Professor	
Anupam Sinha	Assistant Professor	
Mou Das Mahapatra	Assistant Professor	
Basudeb Mondal	Assistant Professor	
Dipak Kumar Dhak	Assistant Professor	
Sidhartha Ghosh	Assistant Professor	
Dr. Chandan Paul	Assistant Professor	
Kingsuk Majumdar	Assistant Professor	
Sunil Kumar Choudhary	Assistant Professor	
Dr. Soumen Biswas	Assistant Professor	
Snehasish Ghosal	Assistant Professor	
Soham Dey	Assistant Professor	
Adhit Roy	Assistant Professor	
Saradindu Mondal	Assistant Professor	
Dr. Bijoy Laxmi Koley (Midya)	Assistant Professor	
Dr. Soumen Mallick	Assistant Professor	
Dr. Kamalika Tiwari	Assistant Professor	
Dr. Ritu Rani De (Maity)	Assistant Professor	
Suman Dasgupta	Assistant Professor	
Dr. Arindam Mondal	Professor and Registrar	
Dr. Shibendu Mahata	Assistant Professor	
Dr. Debaprasad Mukherjee	Professor	
Dr. Suman Bhattacharjee	Associate Professor & HoD	
Dr. Dinesh Kr. Pradhan	Assistant Professor	
Dr. Moumita Pradhan	Assistant Professor	
Prabal Kumar Sahu	Assistant Professor	
Manas Kumar Roy	Assistant Professor	
Md Keramot Hossain Mondal	Assistant Professor	
Priyanka Roy	Assistant Professor	
Paramita Manna	Assistant Professor	
Sandip Chakraborty	Assistant Professor	
Ms. Banashree Chatterjee	Assistant Professor	
Amit Kumar Mukherjee	Assistant Professor	
Ram Prasad Chakraborty	Assistant Professor	

Name of the Full-time teacher	Designation	Name of the Department
Dr. Kanchan Chatterjee	Professor & HoD	MECHANICAL ENGINEERING
Dr. Chandan Chattoraj	Professor	
Dr. Subrata Samanta	Associate Professor	
Dr. Arijit Banerjee	Associate Professor	
Dr. Manoj Kundu	Assistant Professor	
Dr. Rupali	Assistant Professor	
Dr. Subhas Chandra Moi	Assistant Professor	
Shyama Charan Chakrabarty	Associate Professor	
Pabitra Kr. Mandal	Assistant Professor	
Partha Sarathi Bose	Assistant Professor	
Suman Karmakar	Assistant Professor	
Subhajit Bhattacharya	Assistant Professor	
Chitta Sahana	Assistant Professor	
Siddhartha Bhowmick	Assistant Professor	
Dr. Rajeev Ranjan	Assistant Professor	
Arka Banerjee	Assistant Professor	
Rakesh Biswas	Assistant Professor	
Deepak Kumar	Assistant Professor	
Koushik Chatterjee	Assistant Professor	CSD
Dr. Raj Kumar Samanta	Professor & HoD	
Nasim Anjum Haque	Assistant Professor	
Swadhin Kumar Mondal	Assistant Professor	AIML
Dr. Gour Sundar Mitra Thakur	Associate Professor & HoD	
Atin Mukherjee	Assistant Professor	CIVIL ENGINEERING
Dr. Sanjay Sengupta	Assistant Professor & HoD	
Dr. Sabyasachi Chandra	Professor	
Arijit Kumar Banerji	Assistant Professor	
Md. Hamjala Alam	Assistant Professor	
Shovan Roy	Assistant Professor	
Chanchal Das	Assistant Professor	
Ankita Som	Assistant Professor	
Amit Kotal	Assistant Professor	
Anindita Pan	Assistant Professor	
Anupam Kumar Biswas	Assistant Professor	
Pranoy Roy	Assistant Professor	
Sayantana Dutta	Assistant Professor	
Soumyadip Das	Assistant Professor	
Koynndrik Bhattacharya	Assistant Professor	

<b>Name of the Full-time teacher</b>	<b>Designation</b>	<b>Name of the Department</b>	
Dr. Chandan Bandopadhyay	Associate Professor	Data Science	
Dr. Somroop Siddhanta	Professor & HoD	MASTERS IN BUSINESS ADMINISTRATION	
Dr. Indrani Sengupta	Assistant Professor		
Dr. Bhaswati Roy	Assistant Professor		
Dr. Arunava Mukherjee	Professor		
Partha Chattopadhyay	Assistant Professor		
Sandip Mukherjee	Assistant Professor		
Ms. Krishna Roy	Assistant Professor		
Niloy Kumar Bhattacharjee	Assistant Professor		
Ms. Sayanti Samanta	Assistant Professor		
Subhasis Dutta	Assistant Professor		
Shouvick Kumar Chandra	Assistant Professor		
Dr. Pabitra Kumar Dey	Associate Professor & HoD		MASTERS IN COMPUTER APPLICATIONS
Pradipta Pal	Assistant Professor		
Debasis Guha	Assistant Professor		
Ansuman Mahanty	Assistant Professor		
Subhrangsu Chandra	Assistant Professor		
Dr. Falguni Chakraborty	Assistant Professor		
Uday Kumar Banerjee	Assistant Professor		
Anupam Baidya	Assistant Professor		

### 3.1 Teachers Receiving Ph.D Degree during the Academic Year 2022-23

In the last academic year, the following faculty members have received their Ph.D degrees;

**Table 3.2- Faculty Members of Different Departments Receiving Their Ph.D Degree during 2022-23 Academic year**

<b>Name</b>	<b>Department</b>
Dr. Shovan Roy	CE
Dr. Sayantan Dutta	CE
Dr. Chandan Paul	EE
Dr. Pabitra Kumar Mondal	ME
Dr. Jaya Bhattacharjee	BSH
Dr. Shibendu Mahata	EE
Dr. Rajeev Ranjan	ME

## 4. PARTICIPATION IN FACULTY DEVELOPMENT PROGRAM & PUBLICATION DETAILS

As we know that faculties have the most important role to play in influencing the student's career and unarguably an institution having the best faculties who are skilled in latest technologies will top the tables in coming years.

This in turn poses a great challenge to the quality of education provided to the young and promising students. Because of this, many educational institutions are finding it difficult to maintain their education standards, as providing state of the art infrastructure alone is not enough but having the right faculty is equally important.

The Faculty Development Program provides opportunities for faculty to reflect on current knowledge about and practice of effective teaching and learning through dialogue, assessment and research. The Faculty Development Program hosts group workshops and individual consultations for the faculty to develop and share their experiences and explore creative pedagogic methods and resources for different settings and outcomes of student learning. The aim of the faculty development programmes is to promote campus-wide excellence in teaching which supports the professional development of new faculty members in their early careers and enhances student learning.

If we consider all these things in the Faculty Development Program then any faculty can easy to grow in their professional career and achieve the latest opportunities which are beneficial for them.

### 4.1 Benefits of the Faculty Development Program

- To make faculty skilled in latest technologies
- To make them integrate more technology onto their teaching
- To orient faculty to institution's objective & vision
- To expand faculty roles
- To help faculty find work balance
- To help for making quality and concern in the education
- To improve research skills with quality work

### 4.2 Details of the Faculty Members Participated in FDPs

**Table 4.1- Participation of Faculty Members in FDPs**

Name	Name of the FDP Program	Duration
Dr. Sumana Kundu	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023

Name	Name of the FDP Program	Duration
Dr. Moumita Pradhan	Python For Data Science	01-01-2020 To 30-02-2023
Anupam Baidya	Artificial Intelligence	16-01-2023 To 20-01-2023
Rakesh Biswas	Nonconventional Energy	14-11-2022 To 22-01-2022
Debasis Guha	Artificial Intelligence	16-01-2023 To 20-01-2023
Dr. Manoj Kundu	Research Trends And Methodologies In Machine Learning	25-07-2022 To 29-07-2022
Subrata Samanta	Non Conventional Energy	14-11-2022 To 18-11-2022
Dr. Shovan Roy	Recent Advancements In Smart Grid And Renewable Energy	19-12-2022 To 23-12-2022
Dr. Dola Sinha	As A Speaker On Modern Technologies In Electrical Engineering	14-02-2023 To 18-02-2023
Dr. Pabitra Kumar Dey	Artificial Intelligence	16-01-2023 To 20-01-2023
Dr. Subhas Chandra Moi	Non-Conventional Energy	14-11-2022 To 18-11-2022
Subhrangsu Chandra	Artificial Intelligence	16-01-2023 To 20-01-2023
Suman Karmakar	Non Conventional Energy	14-11-2022 To 18-11-2022
Siddhartha Bhowmick	Recent Advancement In Smart Grid And Renewable Energy	19-12-2022 To 23-12-2022

Name	Name of the FDP Program	Duration
Md Hamjala Alam	Advancement In Civil Engineering' Ace-2022	14-11-2022 To 18-11-2022
Joyjit Patra	Fast Emerging Research Domain For Future Trends Of Advanced Computation	06-02-2023 To 10-02- 2023.
Sovan Bhattacharya	Fast Emerging Research Domain For Future Trends Of Advanced Computation	06-02-2023 To 10-02-2023
Indrani Sengupta	Fundamental Research Using Application Software	02-06-2022 To 26-06-2022
Ansuman Mahanty	Artificial Intelligence	16-01-2023 To 20-01-2023
Dr Falguni Chakraborty	Recent Trend And Research Application On Iot And Machine Learning	12-07-2022 To 16-07-2022
Anirban Chattopadhyay	Recent Trends And Advances In Electronics	19-09-2022 To 23-09-2022
Tribeni Prasad Banerjee	Fast Emerging Research Domain For Future Trends Of Advanced Computation	06-02-2023 To 10-02-2023
Keka Hajra	Recent Trends And Advances In Electronics	19-09-2022 To 23-09-2022



Name	Name of the FDP Program	Duration
SOUMENDRA PAIN	RECENT TRENDS AND ADVANCES IN ELECTRONICS	19-09-2022 to 23-09-2023
CHANDAN DAS	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Nasim anjum Hoque	Wipro Certified Faculty	26-09-2022 to 17-10-2022
Amitabha Mandal	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
RAJIB KUMAR MONDAL	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02- 2023.
NILKAMAL BHUNIA	RECENT TRENDS AND ADVANCES IN ELECTRONICS	19-09-2022 to 23-09-2022
Partha Sarathi Bose	Non Conventional Energy	14-11-2022 to 18-11-2022
Swadhin Kumar Mondal	Recent Trends in AI & ML for smart computing	14-11-2022 to 18-11-2022
Dr. Anup Kumar Das	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Dr Shashi Bajaj Mukherjee	QUANTUM COMPUTING-WQC2022	03-08-2022 to 05-08-2022
Adhit Roy	Modern Technologies in Electrical Engineering	14-02-2023 to 18-02-2023
Uday Kumar Banerjee	Artificial Intelligence	16-01-2023 to 20-01-2023

Biswajit Saha	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 To 10-02-2023
BISWADEV GOSWAMI	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
MONALISA CHAKRABORTY	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
BISWAJIT MONDAL	Advancements of Cyber Security	22-08-2022 to 26-08-2022
MOLOY MUKHERJEE	Recent Trends in Artificial Intelligence and Machine Learning for Smart Computing	14-11-2022 to 18-11-2022
Dr. TUSHNIK SARKAR	Modern Technologies in Electrical Engineering	14-02-2023 to 18-02- 2023
ANANDAPROVA MAJUMDER	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
ARIJIT KUMAR BANERJI	ADVANCES IN CIVIL ENGINEERING	14-11-2022 to 18-11-2022
SUDIP KUMAR GOREY	Modern Technologies in Electrical Engineering	14-02-2023 to 18-02-2023
SREEJATA SEN SARMA	RECENT ADVANCEMENT IN SMART GRID AND RENEWABLE ENERGY	19-12-2022 to 23-12-2022
KALPANA ROY	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
CHANCHAL DAS	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
DR. TAPAS MONDAL	Recent Trends and Advances in Electronics	19-09-2023 to 23-09-2023
Soumyadip Das	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
BIJOY LAXMI KOLEY	Fast Emerging Research Domain for future trends of Advanced computation	06-02-2023 to 10-02- 2023
MOUTUSI MONDAL	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Sanjoy Kumar Saha	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND IOT FOR ELECTRICAL ENGINEERING	08-08-2022 to 12-08-2022
Suvabrata Sarkar	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02- 2023
Mou Das Mahapatra	Recent Advancement in Smart Grid and Renewable Energy	19-12-2022 to 23-12-2022
Dr. Arindam Mondal	Introduction to Machine Learning and Deep Learning	27-03-2023 to 31-03-2023
SAMUJJWAL RAY	Recent advancement in smart grid and renewable Energy	19-12-2022 to 23-12-2022
Md Keramot Hossain Mondal	IOT & Drone	27-02-2023 to 04-03-2023
Anupam Sinha	Advancement in Smart Grid and Renewable energy	19-12-2022 to 23-12-2022

Dr. Soumen Mallick	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
SARADINDU MONDAL	RECENT ADVANCES IN SMARTGRID AND RENEWABLE ENERGY	19-12-2022 to 23-12-2022
Sandip Chakraborty	The Joy of Computing Using Python	01-01-2022 to 30-04-2022
Dr. Saurav Ranjan Das	Recent Advancement in Smart Grid and Renewable Energy	19-12-2022 to 23-12-2022
Pranoy Roy	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
Arka Banerjee	Non-Conventional Energy	14-11-2022 to 18-11-2022
Debipriya Dutta	Applications of GNSS/NavIC in cost efficient solution development	09-01-2023 to 20-01-2023
Dr. Sabyasachi Chandra	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
Dr. Sayantan Dutta	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
Dr. rupali	NON CONVENTIONAL ENERGY	14-11-2022 to 18-11-2022
Amit Kotal	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
ANINDITA PAN	Application of AutoCAD in Engineering & Basic Sciences	20-02-2023 to 24-02-2023
PARAMITA MANNA	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
ANUPAM KUMAR BISWAS	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
BASUDEB MONDAL	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Dr. Sneha Sultana	Artificial Intelligence and Machine Learning	15-02-2022 to 19-02-2022
KOUSHIK CHATTERJEE	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
PRABAL KUMAR SAHU	Software Engineering in Agile World	01-12-2022 to 01-12-2022
Dr. Arunava Mookherjee	Learning Analytics Tools	01-07-2022 to 30-10-2022
Koyndrik Bhattacharjee	Advancement in Civil Engineering (ACE-2022)	14-11-2022 to 18-11-2022
PRADIPTA PAL	Rethinking Curriculum in line with NEP 2020	20-03-2023 to 22-03-2023
SOHINI GHOSH	FUNDAMENTAL RESEARCH USING APPLICATION SOFTWARE	20-07-2022 to 26-07-2022
Soham Dey	Emerging Trends in Different fields of Electrical Engineering	13-06-2022 to 17-06-2022
krishna roy	Fundamental Research Using Application Software	20-06-2022 to 26-06-2022
SANJAY SENGUPTA	Advancement in Civil Engineering (ACE-2022)	14-11-2022 to 18-11-2022
Priyanka Roy	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Suman Bhattacharjee	Faculty Development Program on IOT	27-02-2023 to 04-03-2023

	& Drone	
Banashree Chatterjee	Advance Manufacturing Process	06-09-2022 to 11-09-2022
Md Keramot Hossain Mondal	Advancements in Next Generation Computing and Communications in the IoT age	19-06-2023 to 23-06-2023
DR. PABITRA KUMAR DEY	Modern Technologies in Electrical Engineering	14-02-2023 to 18-02-2023
DEEPAK KUMAR	NON-CONVENTIONAL ENERGY	14-11-2022 to 18-11-2022
Anirban Chattopadhyay	Metamaterial and Metamaterial assisted vacuum electronic devices	29-05-2023 to 02-06- 2023
Dr. ALOKE SAHA	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
SUBHADRA DEB ROY	Metamaterial and Metamaterial Assisted Vacuum Electronic Device	29-05-2023 to 02-06-2023
SURAJIT BATABYAL	Metamaterial and Metamaterial Assisted vacuum Electronic Devices	29-05-2023 to 02-06-2023
Dr. Shovan Roy	Advancement in Civil Engineering (ACE-2022)	14-11-2022 to 18-11-2022
Dr. Sumana Kundu	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Dr. Moumita Pradhan	Python for data science	01-01-2020 to 30-02-2023
ANUPAM BAIDYA	Artificial Intelligence	16-01-2023 to 20-01-2023
Rakesh Biswas	1)Nonconventional Energy, 2) Introduction to Machine Learning, 3) Aero elasticity active vibration control and FEA,	14-11-2022 to 22-01-2022
DEBASIS GUHA	Microsoft .SAP AND AICTE ATAL LED FACULTY DEVELOPMENT PROGRAM ON "ARTIFICIAL INTELLIGENCE "	16-01-2023 to 20-01-2023
DR. MANOJ KUNDU	FACULTY DEVELOPMENT PROGRAM ON RESEARCH TRENDS AND METHODOLOGIES IN MACHINE LEARNING	25-07-2022 to 29-07-2022
Subrata Samanta	Non conventional Energy	14-11-2022 to 18-11-2022
Dr. Shovan Roy	Recent Advancements in Smart Grid and Renewable Energy	19-12-2022 to 23-12-2022
Dr. Dola Sinha	As a speaker on Modern Technologies in Electrical Engineering	14-02-2023 to 18-02-2023
DR. PABITRA KUMAR DEY	ARTIFICIAL INTELLIGENCE	16-01-2023 to 20-01-2023
Dr. Subhas Chandra Moi	Non-conventional energy	14-11-2022 to 18-11-2022
Subhrangsu Chandra	AICTE ATAL FDP On Artificial Intelligence	16-01-2023 to 20-01-2023
Suman Karmakar	Non Conventional Energy	14-11-2022 to 18-11-2022
SIDDHARTHA BHOWMICK	RECENT ADVANCEMENT IN SMART GRID AND RENEWABLE ENERGY	19-12-2022 to 23-12-2022
MD HAMJALA ALAM	Advancement in Civil Engineering' ACE-2022	14-11-2022 to 18-11-2022
JOYJIT PATRA	Fast Emerging Research Domain for Future Trends of Advanced	06-02-2023 to 10-02- 2023.

	Computation	
Sovan Bhattacharya	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
INDRANI SENGUPTA	FUNDAMENTAL RESEARCH USING APPLICATION SOFTWARE	02-06-2022 to 26-06-2022
Ansuman Mahanty	Artificial Intelligence	16-01-2023 to 20-01-2023
DR FALGUNI CHAKRABORTY	Recent Trend and Research Application on IoT and Machine Learning	12-07-2022 to 16-07-2022
ANIRBAN CHATTOPADHYAY	1. FDP on Advancements of Cyber Security; 2. Recent trends and Advances in Electronics	19-09-2022 to 23-09-2022
Tribeni Prasad Banerjee	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
KEKA HAJRA	RECENT TRENDS AND ADVANCES IN ELECTRONICS	19-09-2022 to 23-09-2022
SOUMENDRA PAIN	RECENT TRENDS AND ADVANCES IN ELECTRONICS	19-09-2022 to 23-09-2023
CHANDAN DAS	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Nasim anjum Hoque	Wipro Certified Faculty	26-09-2022 to 17-10-2022
Amitabha Mandal	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
RAJIB KUMAR MONDAL	“Fast Emerging Research Domain for Future Trends of Advanced Computation”	06-02-2023 to 10-02-2023.
NILKAMAL BHUNIA	RECENT TRENDS AND ADVANCES IN ELECTRONICS	19-09-2022 to 23-09-2022
Partha Sarathi Bose	Non Conventional Energy	14-11-2022 to 18-11-2022
Swadhin Kumar Mondal	Recent Trends in AI & ML for smart computing	14-11-2022 to 18-11-2022
Dr. Anup Kumar Das	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Dr Shashi Bajaj Mukherjee	QUANTUM COMPUTING-WQC2022	03-08-2022 to 05-08-2022
Adhit Roy	Modern Technologies in Electrical Engineering	14-02-2023 to 18-02-2023
Uday Kumar Banerjee	Artificial Intelligence	16-01-2023 to 20-01-2023
Biswajit Saha	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 To 10-02-2023
BISWADEV GOSWAMI	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
MONALISA CHAKRABORTY	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
BISWAJIT MONDAL	"Advancements of Cyber Security"	22-08-2022 to 26-08-2022
MOLOY MUKHERJEE	Recent Trends in Artificial	14-11-2022 to 18-11-2022

	Intelligence and Machine Learning for Smart Computing	
Dr. TUSHNIK SARKAR	Modern Technologies in Electrical Engineering	14-02-2023 to 18-02- 2023
ANANDAPROVA MAJUMDER	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
ARIJIT KUMAR BANERJI	ADVANCES IN CIVIL ENGINEERING	14-11-2022 to 18-11-2022
SUDIP KUMAR GOREY	Modern Technologies in Electrical Engineering	14-02-2023 to 18-02-2023
SREEJATA SEN SARMA	RECENT ADVANCEMENT IN SMART GRID AND RENEWABLE ENERGY	19-12-2022 to 23-12-2022
KALPANA ROY	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
CHANCHAL DAS	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
DR. TAPAS MONDAL	Recent Trends and Advances in Electronics	19-09-2023 to 23-09-2023
Soumyadip Das	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
BIJOY LAXMI KOLEY	Fast Emerging Research Domain for future trends of Advanced computation	06-02-2023 to 10-02- 2023
MOUTUSI MONDAL	"Fast Emerging Research Domain for Future Trends of Advanced Computation"	06-02-2023 to 10-02-2023
Sanjoy Kumar Saha	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND IOT FOR ELECTRICAL ENGINEERING	08-08-2022 to 12-08-2022
Suvabrata Sarkar	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02- 2023
Mou Das Mahapatra	Recent Advancement in Smart Grid and Renewable Energy	19-12-2022 to 23-12-2022
Dr. Arindam Mondal	Introduction to Machine Learning and Deep Learning	27-03-2023 to 31-03-2023
SAMUJJWAL RAY	Recent advancement in smart grid and renewable Energy	19-12-2022 to 23-12-2022
Md Keramot Hossain Mondal	IOT & Drone	27-02-2023 to 04-03-2023
Anupam Sinha	Advancement in Smart Grid and Renewable energy	19-12-2022 to 23-12-2022
Dr. Soumen Mallick	"Fast Emerging Research Domain for Future Trends of Advanced Computation"	06-02-2023 to 10-02-2023
SARADINDU MONDAL	RECENT ADVANCES IN SMARTGRID AND RENEWABLE ENERGY	19-12-2022 to 23-12-2022
Sandip Chakraborty	The Joy of Computing Using Python	01-01-2022 to 30-04-2022
Dr. Saurav Ranjan Das	Recent Advancement in Smart Grid and Renewable Energy	19-12-2022 to 23-12-2022
Pranoy Roy	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022

Arka Banerjee	Non-Conventional Energy	14-11-2022 to 18-11-2022
Debipriya Dutta	Applications of GNSS/NavIC in cost efficient solution development	09-01-2023 to 20-01-2023
Dr. Sabyasachi Chandra	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
Dr. Sayantan Dutta	Five days faculty development program on “Advancement in Civil Engineering (ACE 2022)”	14-11-2022 to 18-11-2022
Dr. Rupali	NON CONVENTIONAL ENERGY	14-11-2022 to 18-11-2022
Amit Kotal	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
ANINDITA PAN	Application of AutoCAD in Engineering & Basic Sciences	20-02-2023 to 24-02-2023
PARAMITA MANNA	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
ANUPAM KUMAR BISWAS	Advancement in Civil Engineering (ACE 2022)	14-11-2022 to 18-11-2022
BASUDEB MONDAL	“Fast Emerging Research Domain for Future Trends of Advanced Computation”	06-02-2023 to 10-02-2023
Dr. Sneha Sultana	Artificial Intelligence and Machine Learning	15-02-2022 to 19-02-2022
KOUSHIK CHATTERJEE	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 1-02-2023
PRABAL KUMAR SAHU	Software Engineering in Agile World	01-12-2022 to 01-12-2022
Dr. Arunava Mookherjee	Lerning Analytics Tools	01-07-2022 to 30-10-2022
Koyndrik Bhattacharjee	Advancement in Civil Engineering (ACE-2022)	14-11-2022 to 18-11-2022
PRADIPTA PAL	Rethinking Curriculum in line with NEP 2020	20-03-2023 to 22-03-2023
SOHINI GHOSH	FUNDAMENTAL RESEARCH USING APPLICATION SOFTWARE	20-07-2022 to 26-07-2022
Soham Dey	Emerging Trends in Different fields of Electrical Engineering	13-06-2022 to 17-06-2022
Krishna roy	Fundamental Research Using Application Software	20-06-2022 to 26-06-2022
SANJAY SENGUPTA	Advancement in Civil Engineering (ACE-2022)	14-11-2022 to 18-11-2022
Priyanka Roy	Fast Emerging Research Domain for Future Trends of Advanced Computation	06-02-2023 to 10-02-2023
Suman Bhattacharjee	Faculty Development Program on IOT & Drone	27-02-2023 to 04-03-2023
Banashree Chatterjee	Advance Manufacturing Process	06-09-2022 to 11-09-2022

### 4.3 Benefits Received from FDPs

All the faculty members participating in FDPs have benefitted from different ways. The sense of confidence in implementing new activities in the classroom was high after the workshop and there was an increase in faculty expressing their willingness to try new approaches to teaching. Some of the faculty participants have started writing education research papers for submission to conferences and journals and this increase is largely attributable to the initiatives.

### 4.4 Publication Details

**Table 4.2- Publication Details of the Faculty Members in Conference Proceedings/Book**

<b>Name of the Teacher</b>	<b>Title of the Paper</b>	<b>Year of Publication</b>
DR MANOJ KUNDU	Study of the Performance of Wire EDM on Titanium alloy using Taguchi Method	2023
DR.MANOJ KUNDU	Experimental Study of Different Bio Based Cutting Fluid using Multiple Machining Characteristics during Turning Operation	2023
Dr. Shovan Roy	Hydrodynamic Performance of Single and Double Row Floating Breakwaters	2022
Raj Kumar Samanta	The Impact of Rising Global Temperatures on Seismicity: A Case Study in Alaska	2022
Raj Kumar Samanta	A Study of Global Temperature Anomalies and their Changing Trends due to Global Warming	2022
JOYJIT PATRA	Prediction of Indian government stakeholder oil stock prices using hyper parameterized LSTM models	2022
JOYJIT PATRA	Machine learning-based S-CNN model for automated post-covid X-RAY identification	2022
RAJIB KUMAR MONDAL	A Greedy Algorithm for Maximizing Target Q-Coverage in Directional Sensor Networks	2022
BIJOY LAXMI KOLEY	Wireless sensor and smartphone -based system for detection of sleep apneam for m for	2023
Partha Sarathi Bose	An Overview and Future Reflection of Battery Management Systems in Electric Vehicles	2023
Md. Keramot Hossian Mondal	Comparing the Use of Short Video Sharing Application for Optimizing User Engagement	2023
Sandip Chakraborty	Comparing the Use of Short Video Sharing Application for Optimizing User Engagement	2023
BISWAJIT MONDAL	Execution survey and State of art of different ML-based Ensemble classifiers approach contextual analysis of spam remark location	2022
CHANDAN DAS	An Adaptive Low Cost Single Target Sample Preparation on Digital Microfluidic Biochips	2022
Md Keramot Hossain Mondal	Identification and Counting of Blood Cells Using Machine Learning and Image Processing	2023
Mou Das Mahapatra	Voltage Profile Enhancement in a PV Connected Hybrid Power System using Dynamic Voltage Restorer	2022



Mou Das Mahapatra	Optimal Biquadratic Approximation of the Fractional-Order Laplacian Operator Yielding Improved Constant-Phase Behavior	2023
Priyanka Roy	Comparing the Use of Short Video Sharing Application for Optimizing User Engagement	2023
Biswajit Saha	Opinion Mining and Sentiment Analysis on Twitter Data	2023
Amit Kotal	Analysis of Pile Deformation under Multylayered Liquefied Soil Using Static Equivalent Model	2022
SUMIT BANERJEE	Modeling and Analysis of MPPT based solar PV system under dynamic weather conditions	2022
Pranoy Roy	Analysis of Pile Deformation under Multylayered Liquefied Soil Using Static Equivalent Model	2022
Subir Gupta	Execution survey and State of art of different ML-based Ensemble classifiers approach contextual analysis of spam remark location	2022
Sayanti Samanta	Computational study to determine the influence of research on enhancing API	2023
Biswajit Mondal	ADAMAX optimizer and CATEGORICAL CROSSENTROPY loss function-based CNN method for diagnosing Lung cancer	2023
Monalisa Chakraborty	Identification and Counting of Blood Cells Using Machine Learning and Image Processing	2023
Shibendu Mahata	Optimal Biquadratic Approximation of the Fractional-Order Laplacian Operator Yielding Improved Constant-Phase Behavior	2023
Chandan Koner	Opinion Mining and Sentiment Analysis on Twitter Data	2023
Anindita Pan	Analysis of Pile Deformation under Multylayered Liquefied Soil Using Static Equivalent Model	2022
Sayantana Dutta	Analysis of Pile Deformation under Multylayered Liquefied Soil Using Static Equivalent Model	2022
Manas Kumar Roy	Identification and Counting of Blood Cells Using Machine Learning and Image Processing	2023
Ritu Rani De (Maity)	Optimal Biquadratic Approximation of the Fractional-Order Laplacian Operator Yielding Improved Constant-Phase Behavior	2023
Manas Kumar Roy	Disease Detection in Paddy Crop using Machine Learning Techniques	2023
SNEHASHIS GHOSHAL	Modelling and analysis of MPPT based solar PV system under dynamic weather conditions	2022
Joyjit Patra	Identification and Counting of Blood Cells Using Machine Learning and Image Processing	2023
Sandip Mukherjee	Computational study to determine the influence of research on enhancing API	2023
Raj Kumar Samanta	An Effort Towards Improving Automatic Transcription Systems	2022
Chandan Koner	Identification and Counting of Blood Cells Using Machine Learning and Image Processing	2023
Mou Das Mahapatra	Dynamic Performance Enhancement of Fractional-Order PID Controller using a High-Level Ensemble Swarm Intelligence Method	2023
Subhajit Bhattacharya	Design and development of a microgripper for use in pipeline inspection robot	2023
Monalisa Chakraborty	Computational study to determine the influence of research on enhancing API	2023

Dr. Chandan Bandyopadhyay	An Online Testing Technique for the Detection of Control Nodes Displacement Faults (CNDP) in Reversible Circuits	2022
Partha Sarathi Bose	An Overview and Future Reflection of Battery Management Systems in Electric Vehicles	2023
Rajeev Ranjan	Latest advancements in the surface performance of microwave cladding and the future scope – A critical review	2023
Dr. Dola Sinha	Harvesting renewable energy through maglev windmill	2023
Dr. Dola Sinha	IoT Based Bridge Automation with Hybrid Power Supply	2023
Kingsuk Majumdar	Harvesting Renewable Energy Through Maglev Windmill	2023
Subir Gupta	Identification and Counting of Blood Cells Using Machine Learning and Image Processing	2023
DR. BHASWATI ROY	Computational study to determine the influence of research on enhancing API	2023
Bhaswati Roy	Performance Analysis of Professional Higher Education Programmes Driven by Students Perception: A Latent Variable Computation Model for Industry 5.0	2023
DR. INDRANI SENGUPTA	IMPACT OF MACROECONOMIC INDICATORS ON THE INDIAN STOCK MARKET: A STUDY ON NSE NIFTY	2023
Paramita Manna	Disease Detection in Paddy Crop using Machine Learning Techniques	2023
Sumit Banerjee	Modelling and analysis of MPPT based solar PV system under dynamic weather conditions	2022
DR. INDRANI SENGUPTA	Automated Student Merit Prediction Using Machine Learning	2022
Subir Gupta	Computational study to determine the influence of research on enhancing API	2023
Priyanka Roy	Disease Detection in Paddy Crop using Machine Learning Techniques	2023
P. K. Sahu	An Effort Towards Improving Automatic Transcription Systems	2022
Shibendu Mahata	Dynamic Performance Enhancement of Fractional-Order PID Controller using a High-Level Ensemble Swarm Intelligence Method	2023
Rajeev Ranjan	An Overview and Future Reflection of Battery Management Systems in Electric Vehicles	2023
Md Keramot Hossain Mondal	Disease Detection in Paddy Crop using Machine Learning Techniques	2023
Ritu Rani De (Maity)	Dynamic Performance Enhancement of Fractional-Order PID Controller using a High-Level Ensemble Swarm Intelligence Method	2023

Kingsuk Majumdar	IoT Based Bridge Automation with Hybrid Power Supply	2023
Sandip Mukherjee	Performance Analysis of Professional Higher Education Programmes Driven by Students Perception: A Latent Variable Computation Model for Industry 5.0	2023
Dr. ALOKE SAHA	Novel 32nm CMOS Ternary Parity Generator-Checker	2023
Gour Sundar Mitra Thakur	Risk and Weightage based Route Prediction System Using Machine Learning: A review	2023
Sayanti Samanta	Performance Analysis of Professional Higher Education Programmes Driven by Students Perception: A Latent Variable Computation Model for Industry 5.0	2023
Sayanti Samanta	IMPACT OF MACROECONOMIC INDICATORS ON THE INDIAN STOCK MARKET: A STUDY ON NSE NIFTY	2023
Sanjib Saha	Non-rigid Registration of De-noised Ultrasound Breast Tumors in Image Guided Breast-Conserving Surgery	2023
Niloy Kumar BHattacharjee	Automated Student Merit Prediction Using Machine Learning	2022
Anirban Chattopadhyay	Impact of Meteorological Conditions on PM2.5 Concentration in Delhi	2023
Soumyadip Das	Application of S1 A1 Modes of Acoustic Emission Waves for Health Monitoring of Reinforced Concrete Slab	2023
Niloy Kumar Bhattacharjee	Performance Analysis of Professional Higher Education Programmes Driven by Students Perception: A Latent Variable Computation Model for Industry 5.0	2023
Joyjit Patra	IMPACT OF MACROECONOMIC INDICATORS ON THE INDIAN STOCK MARKET: A STUDY ON NSE NIFTY	2023
Monalisa Chakraborty	Prediction of Indian government stakeholder oil stock prices using hyper parameterized LSTM models	2022
Ritu Rani De(Maity)	Optimal Design of $(\alpha + \beta)$ -Order Butterworth Filter and Its Realization Using RL $\beta$ C $\alpha$ Circuit	2023
Subir Gupta	Performance Analysis of Professional Higher Education Programmes Driven by Students Perception: A Latent Variable Computation Model for Industry 5.0	2023
Subir Gupta	IMPACT OF MACROECONOMIC INDICATORS ON THE INDIAN STOCK MARKET: A STUDY ON NSE NIFTY	2023
Arka Banerjee	Optimization of Turning Process Parameters for Surface Roughness and Material Removing Rate by Using Taguchi Method	2023
Subir Gupta	Prediction of Indian government stakeholder oil stock prices using hyper parameterized LSTM models	2022
Arka Banerjee	Computational Fluid Dynamics in Lid-Driven Cavity Filled With Non-Newtonian Fluids	2023
Subhashish Pal	Review on the Image Encryption with Hyper-Chaotic Systems	2023
Monalisa Chakraborty	Machine learning-based S-CNN model for automated post-covid X-RAY identification	2022

Dr. ALOKE SAHA	Novel 32nm CMOS Ternary 3's Complement Generator	2023
Dr. ALOKE SAHA	One Dimensional Chaotic map Implementation in FPGA board for Image Encryption	2023
Arka Banerjee	Aerodynamics of cricket ball swing during flight: A review	2022
Aritra Bhowmik	Minimally Coupled E-Shaped Dual-band Antenna for Wireless Applications	2023
ARITRA BHOWMIK	Implementation of the Quantum BCD-to-Excess-3 Code Converter using New Quantum Reversible Circuit Block	2023
ARITRA BHOWMIK	Semicircular-Shaped Dual-Band MIMO Antenna for Wideband Sub-6 GHz Wireless Applications	2023
ARITRA BHOWMIK	Input Variable Bypass or IVB Technique for Logic Functions Simplification	2023
Dr. Sneha Sultana	Quasi-oppositional Whale Optimization Algorithm for Solving Multi-objective Optimal DG Emplacement Problem in Radial Distribution Network	2023
Subir Gupta	Machine learning-based S-CNN model for automated post-covid X-RAY identification	2022
Soumyadip Das	Application of S1 A1 Modes of Acoustic Emission Waves for Health Monitoring of Reinforced Concrete Slab	2023
Sandip Mukherjee	TOWARDS INDUSTRY 5.0 – TERTIARY EDUCATION STUDENTS' PERCEPTION ON THE DIGITALIZED OPERATIONS ECOLOGY OF COMPETENCY BUILDING DIDACTICS	2022
Shibendu Mahata	Optimal Design of $(\alpha + \beta)$ -Order Butterworth Filter and Its Realization Using RL $\beta$ C $\alpha$ Circuit	2023
Rajeev Ranjan	Optimization of Turning Process Parameters for Surface Roughness and Material Removing Rate by Using Taguchi Method	2023
Dr. Indrani Sengupta	IMPACT OF MACROECONOMIC INDICATORS ON STOCK MARKET TURNOVER: AN EMPIRICAL STUDY OF THE INDIAN STOCK MARKET	2022
Rajeev Ranjan	Computational Fluid Dynamics in Lid-Driven Cavity Filled With Non-Newtonian Fluids	2023
Anup Kumar Das	One Dimensional Chaotic map Implementation in FPGA board for Image Encryption	2023
Rajeev Ranjan	"Latest advancements in the surface performance of microwave cladding and the future scope – A critical review"	2023
Rajeev Ranjan	An Overview and Future Reflection of Battery Management Systems in Electric Vehicles	2023
Pradipta Sarkar	One Dimensional Chaotic map Implementation in FPGA board for Image Encryption	2023
Rajeev Ranjan	Aerodynamics of cricket ball swing during flight: A review	2022
Sovan Bhattacharya	An Advanced Approach to Detect Plant Diseases by the Use of CNN Based Image Processing	2023
Sovan Bhattacharya	Impact of Author indexing from the Co-authorship Relation	2023
Sourav Paul	Quasi-oppositional Whale Optimization Algorithm for Solving Multi-objective Optimal DG Emplacement Problem in Radial Distribution Network	2023

Bhaswati Roy	TOWARDS INDUSTRY 5.0 – TERTIARY EDUCATION STUDENTS' PERCEPTION ON THE DIGITALIZED OPERATIONS ECOLOGY OF COMPETENCY BUILDING DIDACTICS	2022
Dr. Rajib Banerjee	A low power video compression for energy starved sensor network using partially fragmented cosine transform	2022
Sayanti Samanta	IMPACT OF MACROECONOMIC INDICATORS ON STOCK MARKET TURNOVER: AN EMPIRICAL STUDY OF THE INDIAN STOCK MARKET	2022
Dr. Rajib Banerjee	An Energy-Efficient Clustering with Mobile Sink and Rendezvous Nodes for Data Collection in IoT-based Wireless Sensor Networks	2023
Dr. Rajib Banerjee	Optimization of a Fifth Generation Communication Based Dual-Band Microstrip Antenna	2023
Dr. Rajib Banerjee	Fusion based segmentation and classification of Novel Coronavirus or Pneumonia from Chest X-ray images using Machine learning techniques	2023
Dr. Rajib Banerjee	State of Health and Life Cycle Prediction of In-Vehicle Lead Acid Battery	2023
Niloy Kumar Bhattacharjee	TOWARDS INDUSTRY 5.0 – TERTIARY EDUCATION STUDENTS' PERCEPTION ON THE DIGITALIZED OPERATIONS ECOLOGY OF COMPETENCY BUILDING DIDACTICS	2022
ARNAB BANERJEE	A Deep Learning-Powered Voice-Enabled Math Tutor for Kids	2023
ARNAB BANERJEE	Deep Learning-Based Identification of Vegetable Species: System for Specially Abled Persons	2023
JOYJIT PATRA	Artificial intelligence-based indicators for ALGO trading strategy on the NSE derivatives	2023
JOYJIT PATRA	ADAMAX optimizer and CATEGORICAL CROSSENTROPY loss function-based CNN method for diagnosing Lung cancer	2023
JOYJIT PATRA	Optimization of Intraday Trading in F&O on the NSE Utilizing BOLLINGER BANDS	2023
Dr. Arunava Mookherjee	Business Beyond Industry 4.0 – Indian Manufacturing Sector – A Value Chain Perspective.	2022
Snehashis Ghoshal	Modeling and Analysis of MPPT based solar PV system under dynamic weather conditions	2022
SUNIL KUMAR CHOUDHARY	Designing of Battery-Based Low Noise Electroencephalography (EEG) Amplifier for Brain Signal Monitoring: A Simulation Study	2023
Sanjay Sengupta	Application of S1 A1 Modes of Acoustic Emission Waves for Health Monitoring of Reinforced Concrete Slab	2023
Dr. Sumana Kundu	House Rent Prediction using Ensemble Based Regression with Real Time Data	2023
DR. MANOJ KUNDU	Experimental Study of Casting Using Loose Piece Pattern (Dovetail)	2023
Suman Karmakar	Rheological Behaviors of Ultra High Molecular Weight Polyethylene (UHMWPE)	2022
DR. PABITRA KUMAR DEY	A Multi-Criteria Model of Selection of Students for Project Work based on the Analysis of their Performance	2022
Dr. Tribeni Prasad Banerjee	Introduction to Nanotechnology	2022
Dr. Anup Kumar Das	Secure Cryptography Using Chaotic Algorithm	2023

SUKARNA DEY MONDAL	A Multi-Criteria Model of Selection of Students for Project Work based on the Analysis of their Performance” Proceeding published in “Nonlinear Dynamics and Applications ( 873–882)	2022
Uday Kumar Banerjee	Secure Cryptography Using Chaotic Algorithm	2023
ANANDAPROVA MAJUMDER	An Automated Cover Text Selection System for Text Steganography Algorithms	2022
Sanjoy Kumar Saha	Analysis of the Performance of a DG Microgrid Based on Fuel Cells	2023
Dr. Rajeev Ranjan	A Study of Metal Inert Gas Cladding Techniques used to Improve Mechanical and Corrosion Characteristics: a Review	2022
Sumit Banerjee	Desenvolvimento de Novo LSV de RDS usando DGs e o seu Funcionamento Fiável (Portuguese Edition)	2023
Sumit Banerjee	Sviluppo di un nuovo VSI di RDS con l'utilizzo di DG e suo funzionamento affidabile (Italian Edition)	2023
Sumit Banerjee	Développement d'un nouveau VSI de RDS en utilisant des DG et son fonctionnement fiable (French Edition)	2023
Sumit Banerjee	Desarrollo de una nueva VSI de RDS mediante el uso de DGs y su funcionamiento fiable (Spanish Edition)	2023
Sumit Banerjee	Entwicklung eines neuen VSI von RDS unter Verwendung von DGs und dessen zuverlässiger Betrieb (German Edition)	2023
Sumit Banerjee	Novel Algorithms for Detection of Line Outage using PMU	2022
Dr Taniya Chakraborty	Machine Learning in ASD: An Intensive Study of Automated Disease Prediction System	2023
DR. PABITRA KUMAR DEY	Investigate the Reason for Students’ Absenteeism in Engineering College in Fuzzy MCDM Environment	2023
Sukarna Dey Mondal	Investigate the Reason for Students’ Absenteeism in Engineering College in Fuzzy MCDM Environment	2023
Sandip Mukherjee	Psychosomatic impacts from COVID 19 among students of professional courses: Risk factors and possible mitigation interventions	2023
DR. BHASWATI ROY	Psychosomatic impacts from covid 19 among students of professional courses : risk factors & possible mitigation interventions	2023
NILOY KUMAR BHATTACHERJEE	Psychosomatic impacts from Covid 19 among students of professional courses; risk factors and possible mitigation interventions	2023
PRASENJIT MAJI	Future Outlier Detection Algorithm for Smarter Industry Application Using ML and AI: Explainable AI and ML for Smart Industry Evolution Using ML/AI Algorithms and Implementations	2023
Dr. Rajib Banerjee	Metaheuristic Clustering in Wireless Sensor Networks	2022
Dr. Rajib Banerjee	An Energy Efficient Secured Arduino based Home Automation using Android Inter-face	2022
Dr. Arunava Mookherjee	Identifying the Factors Affecting Customer Satisfaction in the Purchase of Apparel for	2023

	Sustainability in the Organized Retail Sector – A Case Study of Pantaloons Retail, Durgapur	
Krishna Roy	Identifying the Factors Affecting Customer Satisfaction in the Purchase of Apparel for Sustainability in the Organized Retail Sector – A Case Study of Pantaloons Retail, Durgapur	2023
Dr.Narendra Nath Pathak	Employment of bio-inspired algorithms in the field of antenna array optimization: A review	2023
Dr. Rajdeep Ray	Secure Cryptography Using Chaotic Algorithm	2023

Over the last one year, our dedicated faculty members have submitted and published their research works in reputed journals. Following is the list of the same;

**Table 4.3- Publication Details of the Faculty Members in Journals**

Name of the faculty member	Title of the paper	Name of Journal
S. Satpati, A. Suhasaria, S. Ghosal, U. Adhikari, P. Banerjee, <b>S. Dey</b> , D. Sukul	Interaction of newly synthesized dipeptide Schiff bases with mild steel surface in aqueous HCl: Experimental and theoretical study on thermodynamics, adsorption and anti-corrosion characteristics.	Materials Chemistry and Physics
S. Satpati, A. Suhasaria, S. Ghosal <b>S.Dey</b> , D. Sukul	Anti-corrosive propensity of naturally occurring aldehydes and 1-(3-aminopropyl)imidazole condensed Schiff bases: Comparison on the effect of extended conjugation over electron donation substituents.	Journal of Molecular Structure
Aditya Suhasaria, Rakhi Senapati, Sanjoy Satpati, Subhas Ghosal, <b>Sukalpa Dey</b> and Dipankar Sukul	Experimental and theoretical investigation on the anti-corrosion characteristics of pyridine-substituted benzothiazole derivatives for mild steel in aqueous HCl	Journal of Physical Chemistry and Chemical Physics
Anupam Kumar Biswas, Alope Kumar Datta, Pijush Topdar, <b>Sanjay Sengupta</b>	Acoustic Emission-based Damage Detection and Classification in Steel Frame Structure Using Wavelet Transform and Random Forest	Periodica Polytechnica Civil Engineering
Tamal Kundu, Alope Kumar Datta, Pijush Topdar, <b>Sanjay Sengupta</b>	Optimal location of acoustic emission sensors for detecting rail damage	Proceedings of the Institution of Civil Engineers - Structures and Buildings
<b>Suvabrata Sarka</b> Kalyani Mali	Breast Cancer Subtypes Classification with Hybrid Machine Learning Model	Methods of information in medicine
<b>Sanjib Saha</b> , Subhadeep Dutta, Biswarup Goswami, Debashis Nandi	ADU-Net: An Attention Dense U-Net based deep supervised DNN for automated lesion segmentation of COVID-19 from chest CT images	Elsevier, Biomedical Signal Processing and Control (Impact Factor 5.1)
Suvamoy Changder, Anandaproya Majumder, <b>Sumana Kundu</b>	An improved location mapping and cover synthesis based data hiding by model SSSP problem generation	Multimedia Tools and Applications
Sadhukhan, B., Chakraborty, S., Mukherjee, S.; <b>Samanta, R.K.</b>	Climatic and Seismic Data-Driven Deep Learning Model for Earthquake Magnitude Prediction	Frontiers in Earth Science
Suvamoy Changder, <b>Anandaproya Majumder</b> , Sumana Kundu	AN IMPROVED LOCATION MAPPING AND COVER SYNTHESIS BASED DATA HIDING BY MODEL SSSP PROBLEM GENERATION	MULTIMEDIA TOOLS AND APPLICATIONS
<b>A. Chattopadhyay</b> , M. H. Khondekar	Multifractal cross-correlation analysis between CME and Planetary K-index time series	Astronomische Nachrichten, Wiley
<b>A. Chattopadhyay</b> , M. H. Khondekar	An investigation of the relationship between the CME and the Geomagnetic Storm	Astronomy and Computing, Elsevier
Anirban Chattopadhyay, <b>Mofazzal H. Khondekar</b>	An investigation of the relationship between the CME and the Geomagnetic Storm	Astronomy and Computing
Anirban Chattopadhyay, <b>Mofazzal H. Khondekar</b>	Multifractal cross-correlation analysis between CME and Planetary K-index time series	Astronomische Nachrichten



ARKA BISWAS, <b>ARINDAM MONDAL</b> PRASANTA SARKAR	DESIGN AND IMPEMEMNTATION OF DIGITAL CONTROLLER IN DELTA DOMAIN FOR BUCK CONVERTER	FACTA UNIVERSITATIS;SERIES:ELECTRONICS AND ENERGETICS
S. Chaurasiya, A. Biswas, <b>Rajib Banerjee</b>	A differential Clustering algorithm for IoT based Heterogeneous Wireless sensor Network	International journal of Communication System (IJCS)
Kaustuv Mandal, Suman Halder, Pulakesh Roy, Manash K Paul, Sipra Das Bit, <b>Rajib Banerjee</b>	An online mobility management system to automatically avoid road blockage and COVID-19 hotspots	” New Generation Computing, Springer
<b>Aloke Saha</b> , Rakesh Kumar Singh, Prerona Sanyal, Dipankar Pal	Novel Single-Step 32nm-CMOS Hardware T-Encryptor/Decryptor	IETE Journal of Research
Somnath Mahato, <b>Debipriya Dutta</b> , Mrinal Goswami, Surajit Kundu and Anindya Bose	“QZSS Regional Navigation System Visibility and Solution Experience from India”	National Academy Science Letters
Rittik Kumar Das, Subhajit Sahana, Subhadip Dutta, <b>Subhas Chandra Moi</b>	Analysis of dissimilar joining of stainless steel and mild steel using MIG welding	International journal of creative research thoughts - IJCRT
<b>Sovan Bhattacharya</b> , Ayan Banerjee, Abhik Goswami, Subrata Nandi, Dinesh Kumar Pradhan	"Machine Learning Based Approach for Future Prediction of Authors in Research Academics"	SN Computer Science Journal (Scopus Index)
Sujay kumar Dolai, <b>Arindam Mondal</b> , Prasanta Sarkar	DESIGN AND IMPLEMENTATION OF FRACTIONAL-ORDER CONTROLLER IN DELTA DOMAIN	FACTA UNIVERSITATIS Series: Electronics and Energetics
<b>S. Mahata</b> , N. Herencsar, D. Kubanek, I. Cem Goknar	Optimized fractional-order Butterworth filter design in complex F-plane	Fractional Calculus and Applied Analysis
<b>Soham Dey</b> , Subrata Banerjee and Jayati Dey	Design of an improved robust fractional order PID controller for magnetic levitation system based on atom search optimization	Sādhanā
Tufenkci, S., Alagoz, B.B., Kavuran, G., Yeroglu, C., Herencsar, N., <b>Mahata, S.</b>	A theoretical demonstration for reinforcement learning of PI control dynamics for optimal speed control of DC motors by using twin delay deep deterministic policy gradient algorithm	Expert Systems with Applications
S. Biswas, <b>S. Mahata</b> , P.K. Roy, K. Chatterjee	Application of empirical Bode analysis for delay margin evaluation of fractional-order PI controller in a renewable distributed hybrid system	Fractal and Fractional
<b>Biswas S</b> ,Roy P.K., Chatterjee,K.	Performance enhancement of renewable based deregulated system using distributed power flow controller, Redox flow battery, and Tesla power wall battery	International journal of green energy
<b>Biswas Soumen</b> , Mahato Shibendu, S.Roy,P,K., Chatterjee,K.	Application of Empirical Bode Analysis for Delay-Margin Evaluation of Fractional-Order PI Controller in a Renewable Distributed Hybrid System	Fractal & Fractional.
<b>Biswas, S.Roy,P,K.,</b> Chatterjee,K.	Stability analysis of reduced order distributed generation system (DGS) using logarithmic pole approximation	Sadhana
Suneeta De, <b>Sohini Ghosh</b>	A Study of Cross-Cultural Communication- in the context of Business Communication Teaching	INTERNATIONAL JOURNAL OF RESEARCH CULTURE SOCIETY
<b>Suneeta De</b> , Sohini Ghosh	A Study of Cross-Cultural Communication- in the context of Business Communication	INTERNATIONAL JOURNAL OF RESEARCH CULTURE SOCIETY

	Teaching	
<b>Shibendu Mahata</b> , Norbert Herencsar, Guido Maione	Optimal approximation of analog PID controllers of complex fractional-order	Fractional Calculus and Applied Analysis
Aishika Pal, Pranav, <b>Moumita Pradhan</b>	Survey of fake news detection using machine intelligence approach	Data & Knowledge Engineering
<b>Siddhartha Bhowmick</b> , Ranjan Kumar Mitra	Control of a nonlinear coupled roll-pitch ship using time-delayed state feedback	Sādhanā Springer Nature
<b>Chitta Sahana</b> , Sudipta De, Subha Mondal	Optimum operation of an ejector-assisted combined flash-binary geothermal cycle using R245fa-isopentane mixture-based secondary working fluids	Applied thermal engineering, Elsevier
<b>Suman Karmakar</b> , Tripuresh Deb Singha, Mrutyunjay Rout, Tanmoy Bandyopadhyay, Amit Karmakar	First ply failure load prediction of delaminated pre twisted rotating composite conical shells	Journal of the Brazilian Society of Mechanical Sciences and Engineering
Mimo Patra & <b>Joyjit Patra</b>	A Model for Calculating the Effectiveness of Writing and Hedging SBI Derivatives	INTERNATIONAL RESEARCH JOURNAL OF MULTIDISCIPLINARY TECHNOVATION
<b>Subhashish Pal</b> , Ansuman Mahanty, Arghya Pathak, Jayashree Karmakar, Hrishikesh Mondal, Mrinal Kanti Mandal	A Novel Image Encryption Technique with Four Stage Bit-Interspersing and A 4D-Hyperchaotic System	ECTI Transactions on Computer and Information Technology
<b>Bappaditya Das</b> , C S Raghuvanshi	Crop Diseases Detection Using Image Classification with Deep Learning	NeuroQuantology
Sovan Bhattacharya, Ayan Banerjee, Abhik Goswami, Subrata Nandi, <b>Dinesh Kumar Pradhan</b>	Machine Learning Based Approach for Future Prediction of Authors in Research Academics	SN Computer Science
Jayashree Karmakar, <b>Subhashish Pal</b> , Mrinal Kanti Mandal	Hyper-chaos-based image encryption and cryptanalysis on a non-RGB channel	International Journal of Computer Applications in Technology
<b>Arijit Kumar Banerji</b> , Pijush Topdar, Alope K Datta	Effect of Axle Overloading on Pavement Structural Behaviour with Improved Clayey Subgrade Using PET Fibres	Civil Engineering and Architecture
Krishanu Kundu, Rajesh Bera, <b>Narendra Nath Pathak</b>	Synthesis of Concentric Circular Antenna Array Using Whale Optimization Algorithm	IETE Journal of Research
<b>Debipriya Dutta</b> , Somnath Mahato, Sukabya Dan, Atanu Santra, Sumit Dey, Anindya Bose	Galileo–NavIC Hybrid Operation Towards Improved Performance and User Benefits	Journal of the Indian Society of Remote Sensing
<b>Roy, P.</b> , and Samanta, A. K.	The behavior of different RCC joints under various loading conditions: A review	The Indian Concrete Journal
Sayantan Dutta	Waste Rubber–Soil Mat for Protection of Structures from Earthquake-Induced Liquefaction	International Journal of Geosynthetics and Ground Engineering
<b>Arijit Kumar Banerji</b> , Pijush Topdar, Alope K Datta	Structural Performance of Cement-treated Base Layer by Incorporating Reclaimed Asphalt Material and Plastic Waste	Jordan Journal of Civil Engineering
Subhrangshu Adhikary, Kushal Jain, <b>Biswajit Saha</b> , Deepraj Chowdhury	Optimized EEG based mood detection with signal processing and deep neural networks for brain-computer interface	Biomedical Physics & Engineering Express
Sabyasachi Chandra	Stability of beam-column by geometrically nonlinear analysis	Australian Journal of Structural Engineering

<p>Subhashish Pal, <b>Ansuman Mahanty</b>, Arghya Pathak, Jayashree Karmakar, Hrishikesh Mondal, Mrinal Mandal</p>	<p>A Novel Image Encryption Technique with Four Stage Bit-Interspersing and A 4D-Hyperchaotic System</p>	<p>ECTI Transactions on CIT</p>
<p><b>Suneeta De</b>, Sohini Ghosh</p>	<p>CROSS CULTURAL COMMUNICATIVE CHALLENGES IN EAST INDIAN CLASSROOM</p>	<p>Journal of Teaching English for Specific and Academic Purposes</p>

## **5. STUDENTS' PLACEMENT DETAILS**

In the present era, campus placement holds a great importance for students and educational institutes. While, it helps a student in building a strong foundation for the professional career ahead without facing the real-world job struggle, peer-competition or family pressure, a good placement record gives a competitive edge to an institute/ university in the education market. Campus placements provide the students with a foot-in- the-door opportunity, enabling them to start off their career right after they have completed their course curriculum. Furthermore, they get to interact and engage with the industry professionals during the placement drives, which further help lay a foundation for their prospective career in the future as they familiarise with potential contacts from their chosen career field.

Placements have gradually become an integral part of an institute's offerings, which was not the scenario earlier. Nowadays, students pay special attention to placement records while selecting a college or university for the admission. And it is rightly so, if a student is paying huge amount of parents' hard-earned money as fees to the institutes/universities, he/she has the right to calculate the ROI (return on investment), which in this case is a lucrative job.

### **5.1 Training Programs**

Considering the trends, education system now has to be developed in such a way that it prepares the students for jobs which are not even created as of now. In short, there is an urgent need to bridge the gap between industry requirements and the existent skill set of the students. Campus recruitment is witnessing tremendous transformation with the emergence of technological advancements in the process. Utilising multiple digital services, recruiters are able to figure out innovative and cost-effective strategies for conducting a campus recruitment drive, recruiting top candidates and meeting the recruitment numbers.

Skill Training is one of the most important factors responsible for improving the placement record of an institute or university. Companies no longer just look for academic excellence and aptitude but they prefer candidates who have practical exposure and problem solving ability in real- life situations. Here in BCREC, different training programs are organized for the students from the pre-final year of their studies. Co-Cubes, Placement Season, Reference Globe etc. are few of the country's largest assessment and hiring platform, where some big companies from Programming to Machine fields, so you can choose to opt for best. It also helps in getting somewhat Greater packages too.

### **5.2 Students' Placement in Different Organizations**

Placement is the heart of any professional Institute and BCREC is no exception for the same. A new TPO Campus Cell was formed in July, 2018 to provide more thrust to placement activities apart from the Kolkata T&P Cell. The TPO Cell continuously counsels the students with respect to their career aspirations and options by providing advice on placement procedures, assistance for preparation of applications and resumes and mock practices for interviews which not only helps the students in getting their 'dream' jobs but also assists the visiting placement companies in identifying the 'right' candidate for their Organization. The aim of the TPO Cell is to ensure that students have the information and skills necessary for an effective job search and the students must secure job offers before they complete their program

of studies and leave their Alma Mater. **Test Based Training (TBT)** and **Block Training Program** for different semester students from third year onwards is the key of our success. The TPO team comprises of eminent Professors from different departments to ensure the success of every student. The T&P Cell also ensures and takes care to provide the best arrangements and hospitality for the visiting companies' Officials.

### **Pre-placement Training for students to improve final placement -**

- **Mock Aptitude Test**
- **Mock GD-PI Sessions**

The placement scenario for the year 2018 was discussed. To gear up the placement process in 2019, a special Training & Placement team was set up along with a dedicated infrastructure comprising of a total capacity of around 200 computers for the training process at the AJC Bose Bhawan. The main emphasis was given on Mock Aptitude Test, Mock GD and PI sessions which will be conducted for students by faculty and alumni members to prepare them for their final placement process. Test Based Training (TBT) and Block Training Programs were also suggested for the third year semester students pertaining to different branches.

Over the last few years, most of the students of BCREC have got their desired job. Following is the list of companies and the students, who got placed through campus drive in the year 2022-23;

**Table 5.1- List of the Students Who Got Placed in Different Companies**

<b>Name of student placed and contact details</b>	<b>Program graduated from</b>	<b>Pay package at appointment</b>
Abhishek Kumar/7004940435	CSE	5 LPA
Arnav Kumar/6206557304	CSE	5 LPA
Nitish Kumar/9608324998	CSE	5 LPA
Amit Kumar Mondal/8617031548	CSE	2.79 LPA
Aniket Chatterjee/8709825352	CSE	2.79 LPA
Anubrata Ghosh/7047342502	CSE	2.79 LPA
ARCHANA KUMARI/8757121049	CSE	2.79 LPA
Bijoy Narayan Ganguly/6205460144	CSE	2.79 LPA
Debagnik Paul/9830227735	CSE	2.79 LPA
DIPTESH MANDAL/6294631909	CSE	2.79 LPA
Kunal Keshav Singh/8709118569	CSE	2.79 LPA
Preyoshi Sen/9485099236	CSE	2.79 LPA
Surbhi Saamy/7070503783	CSE	2.79 LPA
Swarup Sinha/6202670192	CSE	2.79 LPA
TUHIN KUNDU/8370966252	CSE	2.79 LPA
Somnath Banerjee/8250843726	CSE	4 LPA
Aashika Sinha/9304922767	CSE	4.25 LPA
Abhishek Kumar Pandey/8597438194	CSE	4.25 LPA
ADITYA KUMAR SINGH/9451949294	CSE	4.25 LPA
ADITYA RAJ/7870111427	CSE	4.25 LPA
Akshoy Kabiraj/9563002847	CSE	4.25 LPA
AMAR KUMAR/7023980411	CSE	4.25 LPA
Ankita Gupta/9734265088	CSE	4.25 LPA
Atul Kumar/7050814803	CSE	4.25 LPA
Avinish Chandra/7543820787	CSE	4.25 LPA

AYUSH KUMAR SHAW/7352263501	CSE	4.25 LPA
Ayush Tah/7276360377	CSE	4.25 LPA
Bhumika Lalwani/9204492796	CSE	4.25 LPA
Bishakha Kumari Mishra/8230010855	CSE	4.25 LPA
Chitrasen Khilar/7992202573	CSE	4.25 LPA
HIMANSHU PANDEY/8210610382	CSE	4.25 LPA
Kaushik Pal/8637017467	CSE	4.25 LPA
KINGSHUK MONDAL/9474856996	CSE	4.25 LPA
Kunal Kumar/7295060014	CSE	4.25 LPA
Madhurima Barman/9932319092	CSE	4.25 LPA
MOU MUKHERJEE/8670028574	CSE	4.25 LPA
Muskan Singh/6205987822	CSE	4.25 LPA
Parthiv Sarkar/7890949678	CSE	4.25 LPA
Prity Das/7980081059	CSE	4.25 LPA
Rajarshi Roy/8967667316	CSE	4.25 LPA
RITIK RAJ MEHTA/7734910764	CSE	4.25 LPA
Sarbeswar Roy/8918316184	CSE	4.25 LPA
Saurav Pratik/7762932708	CSE	4.25 LPA
Sayan Banerjee/6297120947	CSE	4.25 LPA
Somya Priyadarshini/9933048889	CSE	4.25 LPA
Somya Sri/9334138881	CSE	4.25 LPA
Soumdepta Roy/8228081286	CSE	4.25 LPA
Soumya Deepta Sarkar/760233122	CSE	4.25 LPA
Souranil Singha/6297041511	CSE	4.25 LPA
SUBHADIP CHATTERJEE/7908621613	CSE	4.25 LPA
SUDIP KUMAR DEY/892732638	CSE	4.25 LPA
SUMANKAR SAHA/9641266816	CSE	4.25 LPA
SUNANDA PATRA/9732066546	CSE	4.25 LPA
SUPRAVA SAHA/7699021112	CSE	4.25 LPA
TANMOY KHAN/7679806151	CSE	4.25 LPA
TRISHA MALLICK/9732243555	CSE	4.25 LPA
Aritra Gupta Baksi/9934485440	CSE	6.5 LPA
Riyanka Pal/7735392631	CSE	6.5 LPA
ANIRUDHA DAS/9093185696	CSE	4.0 LPA
ASHISH RAJ/8804017023	CSE	4.0 LPA
Pragati Suman/943166681	CSE	4.0 LPA
Pratik Kumar Singh/8789768408	CSE	4.0 LPA
Rakesh Hazari/6296749606	CSE	4.0 LPA
ROHIT KUMAR/9636598687	CSE	4.0 LPA
Shivam Kumar/9110194396	CSE	4.0 LPA
Suvrangsua Hazra/747005421/	CSE	4.0 LPA
Vikash Kumar/9608828963	CSE	4.0 LPA
Devansh Kaushik/7004010979	CSE	4.0 LPA
Bholanath Bid/6296562037	CSE	2.16 LPA
Ashirvad Kumar/9934485440	CSE	1.80 LPA
Indrajit Kumar/6294337071	CSE	1.80 LPA
Abhishek/7979068223	CSE	4.25 LPA
Saikat Ray/6295856535	CSE	4.25 LPA
Ankit Raj Srivastava/7493944006	CSE	4.0 LPA
Arkaprava Mazumder/9434343482	CSE	4.0 LPA
Radhika Rani/8987528990	CSE	4.0 LPA
Shruti Agarwal/9153006969	CSE	9.0 LPA
Anwasha Samanta/9475427841	CSE	5.0 LPA
Sagar Choudhary/9852227536	CSE	5.0 LPA
Abhiraj Gupta/9031659965	CSE	7.0 LPA
Aiswarya Rana/9475905726	CSE	7.0 LPA
Amit Kumar Singh/6203368107	CSE	7.0 LPA
Amrita Baksi/9475742985	CSE	7.0 LPA
ARNAB DUTTA/9475189854	CSE	7.0 LPA
Ayan Banerjee/9732083521	CSE	7.0 LPA
Deepika Das/8001461986	CSE	7.0 LPA

Isha Agrawal/7970881351	CSE	7.0 LPA
JISHNU CHOUDHURY/7029887511	CSE	7.0 LPA
Kamran Jameel/7808500343	CSE	7.0 LPA
Praveen Kumar/9929388419	CSE	7.0 LPA
Puja Kumari/9835772427	CSE	7.0 LPA
Rachana Das/8617653618	CSE	7.0 LPA
Rakesh Ranjan/8877814232	CSE	7.0 LPA
ROHIT ROY/7872089421	CSE	7.0 LPA
Sachin Chowdhury/8642949368	CSE	7.0 LPA
Sanjoy Maji/7872308540	CSE	7.0 LPA
Sheersendu Das/9434393403	CSE	7.0 LPA
SIDDHARTHA GOSWAMI/9832175116	CSE	7.0 LPA
Sohome Chowdhury/9474697730	CSE	7.0 LPA
Supriyo Dam/7031698535	CSE	7.0 LPA
SURUCHI ADHIKARY/825077990	CSE	7.0 LPA
SWAGATA ROY/8514006551	CSE	7.0 LPA
Vivek Vishwakarma/8651212101	CSE	7.0 LPA
Monidepa Ghosh/9474976048	CSE	7.63 LPA
Ananya Ghosh/7585909644	CSE	3.36 LPA
Sayan Mandal/9732092306	CSE	3.36 LPA
Suraj Kumar/8114533525	CSE	3.36 LPA
Nikhil Kumar Gupta/7979700455	CSE	4.03 LPA
Subhankar Das/7001641585	CSE	5.00 LPA
Aakash Ranjan/8434919922	ECE	4.25 LPA
ABHAS KUMAR/8102211329	ECE	4.0 LPA
Abhigyan/7061352503	ECE	4.25 LPA
ABHIK HAZRA/7076008552	ECE	4.0 LPA
Abhishek Kumar/9576713431	ECE	4.0 LPA
Aditi Kumari/6299551836	ECE	4.0 LPA
Aditi Singh/8406975393	ECE	4.25 LPA
ADITYA JHA/8340569295	ECE	4.25 LPA
Aishikee Mishra/7319493774	ECE	4.25 LPA
AKANTA GOSWAMI/7240443507	ECE	4.25 LPA
Alolika Ghatak/9733244739	ECE	4.25 LPA
Aman Kumar/9475543859	ECE	4.25 LPA
Amisha Kumari/7004926359	ECE	4.25 LPA
Anand Satyarthi/7484802375	ECE	7.0 LPA
Ananya Mondal/8873167803	ECE	4.25 LPA
Aniruddha Goswami/9593744634	ECE	4.25 LPA
Anit Paul/8159979469	ECE	4.0 LPA
Ankita Das/8637059108	ECE	4.25 LPA
ANTARA BANERJEE/9832277307	ECE	6.5 LPA
Anurag Singh/9734952863	ECE	4.25 LPA
Anwasha Gorai/9681062064	ECE	4.25 LPA
ARGHA NANDY/6294148417	ECE	4.25 LPA
ARIJEET DAS/7872796079	ECE	4.25 LPA
Arkit Das/7364080252	ECE	4.25 LPA
ARNAB SARKAR/7870085696	ECE	4.25 LPA
Arnav Karn/9732765578	ECE	4.25 LPA
Avinash Kumar Singh/9504044445	ECE	4.25 LPA
Ayushi/8789839524	ECE	4.25 LPA
BAIBHAV SINGH/7488232445	ECE	4.25 LPA
Bidisha Mondal/7779829076	ECE	4.0 LPA
BIJAY SHANKAR/7430917988	ECE	4.25 LPA
Biswarup Bandyopadhyay/9079271749	ECE	4.25 LPA
Debabrata Mukherjee/8617528354	ECE	4.25 LPA
Debajyoti Yadav/9563454514	ECE	4.0 LPA
Debanjali Bera/8436756160	ECE	4.25 LPA

DHRUBARAJ GHOSH/8918792546	ECE	4.25 LPA
DIPAYAN GHOSH/8918274019	ECE	4.25 LPA
Diya Chakraborty/9749736635	ECE	4.25 LPA
DRUTI SAHA/7585954353	ECE	4.25 LPA
Garima Gupta/8420280094	ECE	4.0 LPA
Gaurav Jha/9546001697	ECE	3.20 LPA
HARSH HARSHIT/7904665079	ECE	4.25 LPA
Harsh Raj Gupta/8927806736	ECE	4.25 LPA
ISHITA LAI/6200164594	ECE	4.25 LPA
JOYOSHRI GOSWAMI/8116064033	ECE	4.25 LPA
Love Kumar/9002610620	ECE	4.0 LPA
Mayank Kumar/8789146791	ECE	4.25 LPA
Md Noor Alam/9334907814	ECE	4.0 LPA
Md. Meraj Alam/8927996624	ECE	4.0 LPA
Megha Sarkar/7029117037	ECE	4.25 LPA
Milon Mukherjee/8918959634	ECE	4.25 LPA
NIRMALYA KARMAKAR/8617860773	ECE	4.0 LPA
Palak Priya/9093984756	ECE	4.0 LPA
PIYUSH SINGH/7903404499	ECE	4.25 LPA
Prateek Bhagat/730.7 24960844	ECE	4.0 LPA
Priyanka Saha/8250156132	ECE	4.0 LPA
Rahul Chatterjee/9830089984	ECE	4.0 LPA
RAJLAKSHMI MITRA/7547920816	ECE	4.0 LPA
Rishav Kumar Shaw/7461015812	ECE	4.25 LPA
Ritika Kumari/7047150387	ECE	4.25 LPA
Riya Baranwal/6203600787	ECE	4.25 LPA
Riya Pandey/7469069724	ECE	4.25 LPA
Roshni Rani/8250581642	ECE	4.25 LPA
SADAF SAMRIN/7070976171	ECE	4.25 LPA
Sakshi Thakur/9798044031	ECE	4.25 LPA
Sandip Kumar Das/7979773246	ECE	4.0 LPA
Sandip Maji/9732474840	ECE	4.0 LPA
Sarbani Chowdhury/7318816562	ECE	4.25 LPA
SARBIK MANDAL/7461075175	ECE	4.25 LPA
SAURABH KUMAR PANDEY/6295510539	ECE	4.25 LPA
Saurav Kumar/8434824153	ECE	4.25 LPA
Sayan Chatterjee/9608508853	ECE	4.25 LPA
Sayantana Dey/8617036923	ECE	4.25 LPA
Shakshi Kumari/8617836805	ECE	4.25 LPA
SHATABHISA GOSWAMI/6203347448	ECE	4.0 LPA
Shobhana/9064806268	ECE	4.0 LPA
Shreya Roy/8271353251	ECE	4.25 LPA
SHREYANSH UPADHYAY/8436096866	ECE	4.0 LPA
SHUBHAM KUMAR/9142662737	ECE	4.25 LPA
Shubham kumar mahato/6207377233	ECE	4.0 LPA
Soumen Das/9264179911	ECE	4.25 LPA
Soumili Chatterjee/8609529625	ECE	4.25 LPA
Souvik Chatterjee/8436630496	ECE	4.25 LPA
Subhadeep Acharjee/8170972927	ECE	4.25 LPA
SUBHOSHREE PATTNAIK/7001237032	ECE	4.25 LPA
SUDIP GHOSH/8797966146	ECE	4.25 LPA
Sudipta Pal/8617635499	ECE	4.25 LPA
Sujeet kumar/9770199495	ECE	4.0 LPA
Sujit Hansda/8507480011	ECE	4.25 LPA
Supreet Kumar/7461006803	ECE	4.25 LPA
Susanta Khamrui/9097714921	ECE	4.25 LPA



SUSMITA CHATTARAJ/8250492238	ECE	4.0 LPA
Susmita Ghosal/7547952317	ECE	4.0 LPA
SUSMITA MAZUMDAR/8918351508	ECE	4.25 LPA
Swarnava Mitra/8927772952	ECE	4.0 LPA
Swati kumari/7908480938	ECE	4.0 LPA
Tithi Bera/8340455121	ECE	4.0 LPA
Tushar Deo/8250232987	ECE	4.25 LPA
Subhajit Chakraborty/9091725470	ME	4.80 LPA
Rishi Raj/8102178448	ME	1.86 LPA
AKSHOY KUMAR SAHA/9433528070	ME	4.25 LPA
Atriya Sen/7602631196	ME	4.25 LPA
Avijeet Chakraborty/9563649389	ME	4.25 LPA
Deepjyoti Santra/7001190336	ME	4.25 LPA
RITTIK KUMAR DAS/6297345826	ME	4.25 LPA
Shahil Kumar/637022595	ME	4.25 LPA
SOHIL KHAN/6201893683	ME	4.25 LPA
Abhimanyu Vishwakarma/7479199400	ME	4.0 LPA
Apurba Kishore Maity/8327484945	ME	4.0 LPA
PRANAV/9064372480	ME	4.0 LPA
Rahul Kumar Singh/7764058427	ME	4.0 LPA
SAYAN MUKHERJEE/8292591401	ME	4.0 LPA
Sharmistha Bhattacharya/7908986800	ME	4.0 LPA
Abhishek Shyam/8617059828	ME	1.80 LPA
Anish/8101893540	ME	1.80 LPA
Shashank Shekhar/7766031592	ME	1.80 LPA
Tanmoy Maity/8102456722	ME	1.80 LPA
Shubas Chandra Kar/8370806318	ME	2.76 LPA
Bishal Singh/8609165013	ME	6.0 LPA
Shashi Kant Tiwari/938233287	ME	6.0 LPA
Subhadip Dey/9693696442	ME	6.0 LPA
Apoorv Shandilya/7585079978	ME	5.0 LPA
Kunal Shyam/7481809223	ME	4.0 LPA
Asif Ali/9932997184	ME	3.0 LPA
Proteek Ghosh/7278228777	ME	3.0 LPA
Anish Jha/7980958348	ME	6.5 LPA
Debjyoti Nandi/9064409331	ME	6.5 LPA
Arijit Chanda/8918779026	ME	2.95 LPA
Prasanta Jana/7319361969	ME	2.95 LPA
Arka Mondal/7477412234	ME	1.80 PA
Joydeep Roy/7908925785	ME	1.80 PA
Md. Ahsan/8101672251	ME	1.80 PA
Rakesh Ghosh/8789093911	ME	1.80 PA
Sayan Patra/Patrasayan57@gmail.com	ME	1.80 PA
Nikhil Kumar Rawani/7908936654	ME	7.20 LPA
Prasoon Hazra/7432044995	ME	7.20 LPA
Priyanka Mondal/7364830610	ME	7.20 LPA
Aniket Sinha/9064568147	ME	2.97 LPA
Arnab Sengupta/8789051452	ME	2.97 LPA
Souman Panja/7797381505	ME	2.97 LPA
Subhankar Chatterjee/7431882501	ME	2.97 LPA
Surajit Bouri/6296943793	ME	2.97 LPA
Sushil Kumar/6294419326	ME	3.0 LPA
Abhijit Karmakar/7479646930	ME	1.80 LPA
Anupam Koner/8597543132	ME	1.80 LPA
Santanu Debnath/8597543132	ME	1.80 LPA
Animesh Kumar/8926677056	ME	1.98 LPA
Ankan Mondal/7488791630	ME	1.98 LPA
Mrityunjy Mukherjee/8617521712	ME	1.98 LPA
Neeraj Kumar/7478053477	ME	1.98 LPA
Rahul Dutta/7050407473	ME	1.98 LPA

Rajat Shaw/6294009279	ME	1.98 LPA
Suraj Pratap/9614752263	ME	1.98 LPA
Swarnava Roy/9304466082	ME	1.98 LPA
Abhiraj Singh/8145239108	ME	3.0 LPA
Kismat Ali/8250449473	ME	3.0 LPA
Shekhar Kr. Das/7602234551	ME	3.0 LPA
Soumya Chakraborty/8825259012	ME	3.0 LPA
Suraj Kumar/7001294456	ME	3.0 LPA
Ayan Chatterjee/9142786772	ME	2.40 LPA
Ayaz Ahmed/8927637238	ME	2.40 LPA
Indrajit Mondal/7908979886	ME	2.40 LPA
Saikat Nag/8001386145	ME	2.40 LPA
Shubradeep Mukherjee/8609090265	ME	2.40 LPA
Sougata Mishra/8617535608	ME	2.40 LPA
Souvik Das/8170011544	ME	2.40 LPA
Trinanjana Bhadra/6290332418	ME	2.40 LPA
Rahul Kumar Shaw/7908197977	ME	3.36 LPA
Avisek Mondal/8967738944	ME	4.50 LPA
Rajdip Guha/6296143063	ME	4.50 LPA
Satyam Goswami/9339671579	ME	4.50 LPA
Sourajit Varik/9113306905	ME	4.50 LPA
Manish Sharma/7063168374	ME	2.04 LPA
Md. Anwer Ali/9378067516	ME	2.04 LPA
Md. Danish/7091717927	ME	2.04 LPA
Sai Manas/9608375943	ME	2.04 LPA
Subhadip Dutta/6204343127	ME	2.04 LPA
Subhajit Sahana/7583941664	ME	2.04 LPA
Raj Kumar Barik/7679399920	ME	2.52 LPA
Aman Kumar/9382781235	ME	2.64 LPA
Soujyoti Karmakar/9939371125	ME	2.64 LPA
Sourav Das/8670614901	ME	2.64 LPA
Ananya Bouri/ananyabouri9933@gmail.com	CE	4.25 LPA
Abhishek Mishra/mishra6202333184@gmail.com	CE	4.0 LPA
Aman Kumar/amansingh20019@gmail.com	CE	4.0 LPA
Amit Kumar Mandal/ amitmondal0212@gmail.com	CE	4.0 LPA
INZAMAM NAZIR/inznazeer@gmail.com	CE	4.0 LPA
Sourav Mandal/mandalsourav255@gmail.com	CE	4.0 LPA
Ajit Kumar/ajitkmr3720@gmail.com	CE	2.34 LPA
Aniket Kumar Singh/singhaniket288@gmail.com	CE	2.34 LPA
Ashish Kumar Mahato/ashishmahato520@gmail.com	CE	2.34 LPA
Baibhav Bhowmick/baibhavbhowmick@gmail.com	CE	2.34 LPA
Bomong Mog/bomongmoga78@gmail.com	CE	2.34 LPA
Debashis Jana/debashisj081100@gmail.com	CE	2.34 LPA
Rahul Chattopadhyay/rahulchatt475@gmail.com	CE	2.34 LPA

m		
Raushan Kumar Nirala/roshannirala87@gmail.com	CE	2.34 LPA
Shubham Kumar/subhamchaitanya@gmail.com	CE	2.34 LPA
Souvik Dandapat/souvikdandapat535@gmail.com	CE	2.34 LPA
Sumit Kumar Dey/er.sumitdey93@gmail.com	CE	2.34 LPA
Supriyo Das/supriyadas12001@gmail.com	CE	2.34 LPA
Debnath Patra/debnathpatra2017@gmail.com	CE	2.40 LPA
Rahul Ranjan/rahulmukul67@gmail.com	CE	2.40 LPA
Tuhin Subhra Mondal/amituhinshramondal@gmail.com	CE	2.40 LPA
Pallabi Roy/roypallabi2802@gmail.com	CE	2.64 LPA
Ritwick Kumar/ritwick31@gmail.com	CE	2.64 LPA
Sourabh Mondal/mandalsourav255@gmail.com	CE	2.64 LPA
Ashish Ranjan/ranjanashi34@gmail.com	CE	2.16 LPA
Baibhav Kumar Chowdhury/baibhavchoudhary5543@gmail.com	CE	2.16 LPA
Dipankar Yadav/dipankaryadav2000@gmail.com	CE	2.16 LPA
Ravi Kant Kumar/kumarravikant984@gmail.com	CE	2.16 LPA
Monosij Halder/monosijhalder99@gmail.com	CE	1.80 LPA
Subhajit Dutta/subhajitdutta769@gmail.com	CE	2.25 LPA
Amardeep/amardeep1k99@gmail.com	CE	2.70 LPA
Anirban Saha/anirbansahamkmb@gmail.com	CE	2.70 LPA
Bikram Mondal/bikrammondal172@gmail.com	CE	2.70 LPA
Chiranjit Mandal/mandalchiranjit825@gmail.com	CE	2.70 LPA
Furqan Quraishi/fu121298@gmail.com	CE	2.70 LPA
Goutam Kumar/goutamkumarkr.987@gmail.com	CE	2.70 LPA
Indrajit Banerjee/banerjeeindrajit246@gmail.com	CE	2.70 LPA
Ritam Sarkar/ritamsarkar107@gmail.com	CE	2.70 LPA
Rohit Prasad Mondal/rohitmondal2701@gmail.com	CE	2.70 LPA
Sk. Jamirul/islamjamir1999@gmail.com	CE	2.70 LPA
Vivek Anand/vivekanand3336@gmail.com	CE	2.70 LPA
Rahul Kumar/7991108165	IEE	4.80 LPA
Rik Tantubai/9547681381	IEE	4.25 LPA
RISHI DUTTA/9749522710	IEE	4.25 LPA
Ritika Shaw/8101366822	IEE	4.25 LPA
Subrata Dey/7908109517	IEE	4.25 LPA
Sujal Kumar/6202418996	IEE	4.25 LPA
Md Shahbaz Ahmad/8651540841	IEE	1.80 LPA
Suvam Tantubai/9564481666	IEE	1.80 LPA
Suman Kumari/6203460761	IEE	3.36 LPA

ABHIJIT SHIL/abhijitshilsk@gmail.com	EE	4.25 LPA
Ankan Chakraborty/chankan959@gmail.com	EE	4.25 LPA
Arnab Mahato/stellmate333@gmail.com	EE	4.25 LPA
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## 6. EVENTS IN BCREC

The tradition of celebrating cultural and social events are widespread in colleges across the stretch of the country. These events play a predominant role in a student's life and in the recent years, have managed to sketch a significant place for themselves in the academic calendar. There is a growing consensus that these events are not just about fun but that it also augments a student's learning experience. Organizing and participating the events or activities is not a child's play; it needs exhausting efforts and stern dedication. Events and programs facilitate students to work for a fixed goal in unison and this eventually develops a sense of responsibility in them. It elevates confidence and also teaches them how to work in a team and in various challenging situations.

In the events and programs here at BCREC, students get chance to explore the campus and city more after the event, eventually getting exposed to different culture. This helps them understand different cultures and explore their sensitivities and finer distinctions. Most of the teachers select the students whose potential don't just revolve around bookish knowledge. Continuous involvement in more than one activity reflects skills and abilities of the student. Students learn to prioritize and time management too. These academically and co-circularly talented students have an outstanding personality, which helps them to forge ahead in their career.

### 6.1 Orientation Program

BCREC Organized the Orientation Program and Induction Program in the offline mode after a long time.

### 6.2 Important Events

#### *Celebration of 76th Independence Day*

BCREC fraternity proudly celebrated the **76<sup>th</sup> Independence Day** of our beloved country on August 15, 2022 along with the countrymen in the country and rest of the world, cherished the idea of oneness and remembered the sacrifices that freedom fighters made during their struggle against the mighty British empire.



**Fig. 6.1- Some Glimpses of the Independence day Program 2022**

### ***Hosting Smart India Hackathon***

BCREC hosted Smart India Hackathon (SIH 2022) held in August 2022. Participants across the country came here and participated in the event where the problems were given by the different state agencies. Honourable PM Mr. Narendra Modi directly interacted with a group of participating students through virtual platform.

### ***Viswakarma Puja & Saraswati Puja***

Vishwakarma Day (18th September), also known as Vishwakarma Puja, is a day of celebration for Vishwakarma, the divine architect. As a mark of reverence, the day of workshop was celebrated by all engineering depts. and other staff members of BCREC. In the same way, Saraswati Puja was also celebrated during the winter season.



**Fig. 6.2- Viswakarma Puja Celebration**

### ***Celebration of National Youth Day***

To commemorate the birthday of Swami Vivekananda, maker of Modern India, Dr. B. C. Roy Engineering College celebrated the **National Youth Day** with great joy, enthusiasm on 12<sup>th</sup> January, 2023. The theme for the year is “**Channelizing Youth Power for Nation Building**”. On this day, Principal, BCREC explained the thoughts of Swami Vivekananda and urged all the students of BCREC to get every idea and plans to focus on the actions necessary to do all the tasks with proper knowledge of the things.

### ***Annual Sports 2023***

Annual Sports was organized on 9th February, 2023 with great enthusiasm. NCC cadets and other athletes taking part in different events, staged a march past with departmental flags where the Director, BCREC along with other dignitaries took the salute. There were 15 events for students and 10 for staff members. The event ended with the distribution of prizes where the first three winners of each event received medals and certificates from the Director and other dignitaries.

### ***Commemoration Day of Former President of BCREC: Late Dulal Mitra***

Dr. B. C. Roy Engineering College along with its sister Institutes observed 12<sup>th</sup> February, 2023 in commemoration of Former President **Late Dulal Mitra** at DM Auditorium. Shri Ratan Roy Chowdhury, President, Shri Tarun Bhattacharya, General Secretary, and other representatives of the BCREC Society along with Prof. (Dr.) Sanjay S Pawar, Principal, BCREC expressed their deepest respect to Late Dulal Mitra with garlands and reminisced his dedication and determination to establish these Institutes. Renowned singer, Mr. Manomoy Bhattacharjee presented few Rabindra Sangeets in her melodious voice. Faculty and staff members of BCREC orchestrated a well-integrated performance to pay respectful homage to the Former president of Dr. B. C. Roy Engineering College.

### ***Horizon 2K23***

In an ardent effort to inculcate an atmosphere of intellect, skill and technical powers among budding engineers, BCREC organized Annual Technical Festival every year within the College Campus. The Horizon of Knowledge is oblivious of time and space encircling all walks of life within and beyond human intellect. More than 1500 students participants registered for 28 events in HORIZON-2K23 even from other technical Colleges including NIT's. The purview of vents spanned from technical like Robotics, Coding Challenges, Manufacturing and Construction Challenges; Technical Paper presentation to non-technical skill building events like Debate, Extempore and Business Model competitions.

### ***Cultural Fest***

The Annual Fest comprises of a blend of cultural, technical and sports events. The Cultural Fest was also organized by BCREC where the students get an opportunity to exhibit their skills regarding extra-curricular activities. Many students enthusiastically participated in several cultural events. The purpose behind organizing this Cultural Fest is to give a platform to the students to showcase their talents in other fields apart from academics.

### ***Celebration of Rabindra Jayanti***

Rabindra Jayanti is an annually celebrated cultural festival in the remembrance of Kabiguru Rabindranath Tagore's birthday anniversary on the 25th day of the Bengali month of Boishakh. Members of BCREC family celebrated the day – 9th May, 2023 as a tribute to Tagore and his works. The theme of the celebration was "Mukti", emancipation through spiritual attainment. In addition to the soulful rendition of music as per the theme, speeches were delivered by Sri Amitava Chakraborty, Chief Corporate Affairs, BCREC and others. The event graced by the presence of many faculty and staff members of the BCREC community, was concluded with the respectful laying of wreaths and flowers at the feet of the bard's statue.

## **6.3 Other Important Activities**

### ***MOOCs and MAR Activities***

The introduction of MOOCs (Massive Open Online Courses) and MAR as a part of mandatory curriculum activities create the opportunities for the students to enrich their knowledge base in diversified teaching and learning environment. With this new paradigm, anyone can study without charge from anywhere and anytime. Another benefit of MOOCs is that most of the Professors come from elite campuses like IISc and IITs. As a consequence, their knowledge and experience are being shared among our students.

The MOOCs comprises of two parts: one theoretical and another practical subjects. The majority of the theoretical subjects are covered by SWAYAM-NPTEL (National Programme on Technology Enhanced Learning) where coordinating Institute is IIT-Madras. Practical and Lab are covered by Spoken Tutorial Project – A unique initiative by IIT Bombay.

### ***Centre of Excellence for Academic Education – Acting as a Nodal Centre for both MAKAUT and IIT-Bombay Spoken Tutorial***

Dr. B. C. Roy Engineering College, Durgapur is participating as a Nodal Centre for MAKAUT Zone 2 Colleges in the Eastern Region since 2016 as well as a Nodal Centre for IIT-Bombay Spoken Tutorial since 2015. It is our achievement that both the programs run successfully from 2016 and Dr. B. C. Roy Engineering College, Durgapur is a Nodal Centre for IIT- Bombay and an Active Local Chapter of SWAYAM-NPTEL for IIT-Kharagpur.

The Spoken Tutorial Project is run by IIT-Bombay where Dr. B. C. Roy Engineering College also operates as Eastern Region-Nodal Centre to guide the cluster colleges and the various institutes to be assigned under BCREC by MAKAUT.

In the Spoken Tutorial course, around 600 students applied in the academic year across all the departments across different courses. Around 250 students were certified at the end of the course. Here is the list of different courses and number of students participated there;

**Table 6.1- Number of Successful Participants in the Spoken Tutorial Courses during 2022-23 Academic Year**

<b>Name of Add on programs offered</b>	<b>Duration of course</b>	<b>Number of students enrolled in the year</b>	<b>Number of Students completing the course in the year</b>
QCAD Training	60 hours	59	20
Python Training	60 hours	370	148
C Training	60 hours	56	30
Linux Training	60 hours	60	31
Scilab Training	60 hours	127	16

### ***Career Guidance of Students***

The IQAC members highlighted the strategies implemented by the Institute to guide the students for their future career. The Institute had developed a structured mechanism for assessing the learning levels of the students and incessantly monitors the same for improving their academic as well as overall performance. The performance of the students in the first class assessment (CA1) enables the faculty members to identify the Advanced Learners and the Slow Learners.

For the other semesters, the advanced learners and the slow learners are identified based on their previous overall performance, orientation towards academics, feedback from the subject teachers & observations by the mentors in consultation with the HOD. Programs for the slow learners include remedial classes, extra laboratory classes, Book Bank facility, seminars, quizzes, customized assignments, intensive communication skills and personality development programs etc. Programs for the advanced learners mainly comprised of encouraging them to attend workshops, symposia, seminars to enhance their knowledge base, participation in technical competitions and competitive exams like GATE, undertake innovative projects and research work, enrolment in various MOOCs and SWAYAM courses etc.



### ***Procedures to enhance Teaching-Learning process***

- **Individual learning**
- **Experiential learning**
- **Participative /collaborative learning**

In order to facilitate effective learning and to enhance the learning experience among both advanced learners and slow learners, the Institute follows student centric methods such that students have choices/options in their learning and they also play an active role in the learning process. Numerous Student-centric methods are followed to enhance the Teaching-Learning process including class presentation by students, Class Assignments, Lab Experiments, Technical Videos/Case Studies, NPTEL and SWAYAM videos, EDUSAT, IIT-Bombay Spoken Tutorial Projects etc.

- **Individual learning** – To enhance individual learning, students are strongly encouraged to enroll themselves for online certification courses like NPTEL, SWAYAM etc., to solve Assignments/Quizzes and to learn through Interactive Language Lab class.
- **Experiential learning** – It includes Lab Experiments where the students can perform hands-on experiments in self-learning mode, Internships/Vocational Training, Live Projects, Technical Fest & Workshops on Robotics, Simulation etc., visit to nearby Industries and Research Labs.
- **Participative /collaborative learning** – It includes Presentations, Group Projects, Debates, Group Discussions, Management Games, Industry sponsored Projects, Research Projects, participation in intra-college, state-level and national-level project competitions, design contests and technical festivals.

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## **6.4 Tie-Ups and MOU Sign**

### ***MOU with NHAI***

The institute already have an active MoU with NHAI. 20 Students from the department of Civil Engineering participated in the paid internship for one month.

## **7. QUALITY ASSURANCE INITIATIVE**

Quality management activities are those that ensure the intent of an Institute are exactly what they are supposed to be, that is, they meet all their specifications. Quality assurance (QA) is a set of activities that ensures that development and/or maintenance processes are adequate in order for a system to meet its objectives.

BCREC over the years have done an exceptional job in the field of education. However, in today's world, one can't simply count on the number of job opportunities given to the students as the only quality parameter. To meet the needs, BCREC has done the following;

### ***Introduction of IQAC cell***

In order to enhance the quality of higher education, IQAC cell has been formed. With the leadership of Prof. (Dr.) Pijush Pal Roy as the Chairman, the institute is looking forward to shine bright continuously in the field of education. After the accreditation of NBA for two programs, it is required to continue the same process for the other programs. Senior academicians and faculty members are engaged to execute the plan.

### ***The learning-centric environment***

- Continuous Evaluation Process
- Personal Care through Mentorship Programme
- More emphasis on Contact learning (Tutorials-Projects, etc.) compared to one way-teaching

### ***Energy Audit***

BCREC considers the ecology and environment as the most important parameter for mankind. Hence, BCREC has started strong eco-friendly program that are commercially appreciated and sustainable in the long term. Through these program the students, faculty members and staff members are aware and learn about safe guarding our natural environment. BCREC has the responsibility of conducting Energy-Audit on yearly basis and take effective measures to protect and preserve green atmosphere in the campus. The following steps are done to make the campus eco-friendly;

1. Improve the campus greenery by planting more sapling
2. Making the campus as plastic free zone
3. Taking initiative to keep the campus clean
4. Giving botanical name of each plant/tree
5. Planting flower trees

6. Energy Conservation: The class rooms are well ventilated. There is a free flow of natural sunlight and air which reduces the power consumption. Most of the rooms are illuminated with CFL bulbs.

7. Use of renewable energy is about to be made

8. Rain water harvesting: This important measure to be adopted by the institute. In rain water harvesting the main object is to store the rain water and use them. The storage water is used in the garden and other purposes. Also, the excess water flowing in the drainage system is avoided.

### ***Tree Plantation***

Every year on the “World Environment Day” i.e on the 5<sup>th</sup> June, Green day is observed and students are motivated to plant saplings in the college.

### ***Participation in NIRF***

A team has been formed by the institute to look after the work related to NIRF ranking. Dr. Alok Kahali, Head (Admin) and Prof. (Dr.) N.N. Pathak along with Prof. Suman Dasgupta, Prof. Sudip Kumar Gorey, Prof. Dipta Choudhury and prof. Soumyadip Das are entitled with the work related to NIRF which will be available on September, 2019 for the ranking of the year 2020.

### ***NBA Accreditation***

It is a matter of pride for BCREC that three departments namely Mechanical Engineering, InformationTechnology and Electrical Engineering departments got the NBA accreditation for the next three academic years. CSE and ECE have applied for re-accreditation.

# APPENDIX





**IEEE**  
Student Branch - BCREC



**CSI**  
Student Branch - BCREC



## *Certificate of Participation*

This is to certify that **Ayush Anand** of **Dr. B.C. Roy Engineering College Durgapur** has participated in the event **Auto CAD Design Contest** of “**Horizon 2k23**”, held on **25-26 April 2023**, organized by **Dr. B.C. Roy Engineering College Durgapur**.



Prof. Dr. Rajib Banerjee  
Convenor, Horizon 2k23,  
BCREC

Prof. (Dr.) Rajdeep Ray,  
Dean Students' Welfare,  
BCREC

Prof. Dr. Sanjay S Pawar  
Principal  
BCREC



# DR. B.C. ROY ENGINEERING COLLEGE, DURGAPUR

## ACADEMIC CALENDAR - ODD SEMESTER [JULY 2022 TO DECEMBER 2022] AS PER MAKAUT ACADEMIC TIME TABLE 2022-23

MONTH	MON	TUE	WED	THU	FRI	SAT	SUN	ACADEMIC & EXTRA-CURRICULAR EVENTS/HOLIDAYS DURING THE PERIOD	
<b>ODD SEMESTER ACADEMIC ACTIVITIES STARTED FROM 11TH JULY, 2022 [ EXCEPT FIRST SEMESTER ]</b>									
JULY					1	2	3	SEMESTER BREAK FOR THE STUDENTS FROM 1ST JULY TO 8TH JULY; COMMENCEMENT OF CLASSES 11TH JULY, 2022 07.07.2022-15.07.2022: ENROLLMENT IN MAKAUT FOR 2ND, 3RD & 4TH YEAR STUDENTS	
	4	5	6	7	8	9	10		
	11	12	13	14	15	16	17		
	18	19	20	21	22	23	24		
	25	26	27	28	29	30	31		
AUG	1	2	3	4	5	6	7	CA 1 SUBMISSION 01.08.2022 TO 04.08.2022	
	8	9	10	11	12	13	14	08.08.2022: NPTEL COURSE ENROLLMENT END (UNDER MOOCs)	
	15	16	17	18	19	20	21	09.08.2022: MUHARRUM / 15.08.2022 - INDEPENDENCE DAY / 19.08.2022: JANMASTAMI	
	22	23	24	25	26	27	28	NSS ACTIVITIES: VIDEO PRESENTATION - CELEBRATION OF AZADI KA AMRIT MAHOTSAV	
	29	30	31						
SEPT				1	2	3	4	CA2 AND PCA 1 SUBMISSION 01.09.2022 TO 04.09.2022	
	5	6	7	8	9	10	11	NSS ACTIVITIES: HEALTH CAMP IN VILLAGES: 07.09.2022	
	12	13	14	15	16	17	18	17.09.2022: VISWAKARMA PUJA / 25.09.2022: MAHALAYA	
	19	20	21	22	23	24	25	25.09.2022: NPTEL EXAMINATION (UNDER MOOCs)	
	26	27	28	29	30			NSS ACTIVITIES: BLOOD DONATION CAMP: 21.09.2022	
OCT						1	2	02.10.2022: MAHATMA GANDHI'S BIRTHDAY	
	3	4	5	6	7	8	9	03.10.2022 TO 10.10.2022: DURGA PUJA AND LAKSHMI PUJA	
	10	11	12	13	14	15	16	NSS ACTIVITIES: SWATCHHA BHARAT ACTIVITIES: 12.10.2022 / 19.10.2022: DEBATE COMPETITION	
	17	18	19	20	21	22	23	CA 3 SUBMISSION 17.10.2022 TO 20.10.2022	
	24	25	26	27	28	29	30	24.10.2022 TO 27.10.2022: KALIPUJA / BHATRIDIWITIYA / 30.10.2022: CHHAT PUJA	
	31							29.10.2022 & 30.10.2022: NPTEL EXAMINATION (UNDER MOOCs)	
NOV		1	2	3	4	5	6	08.11.2022: GURU NANAK'S BIRTHDAY	
	7	8	9	10	11	12	13	CA4 AND PCA 2 SUBMISSION 09.11.2022 TO 12.11.2022	
	14	15	16	17	18	19	20	SEMESTER EXAMINATION FORMS FILL UP: 16.11.2022 TO 24.11.2022	
	21	22	23	24	25	26	27	25.11.2022-30.11.2022 EVEN SEMESTER PRACTICAL, SESSIONAL & VIVA VOCE EXAMINATIONS	
	28	29	30						
DEC									
				1	2	3	4	02.12.2022 TO 24.12.2022: EVEN SEMESTER THEORY EXAMINATIONS	
	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21	22	23	24	25		
	26	27	28	29	30	31		25.12.2022: CHRISTMAS DAY	
								26.12.2022 TO 01.01.2023 - WINTER VACATION	
LEGEND :	WEEKLY HOLIDAYS								

THE CALENDAR IS PREPARED AS PER MAKAUT ACADEMIC CALENDAR OF 2022-23/  
WILL BE REVISED AFTER JOINING OF 1ST SEMESTER STUDENTS AND NECESSARY AMENDMENTS MADE BY THE UNIVERSITY



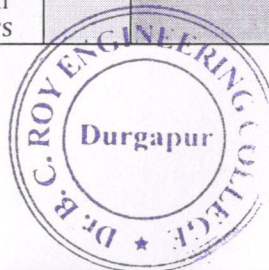
  
 Principal  
**Dr. B. C. Roy Engineering College**  
**DURGAPUR**



**DR. B.C. ROY ENGINEERING COLLEGE, DURGAPUR**

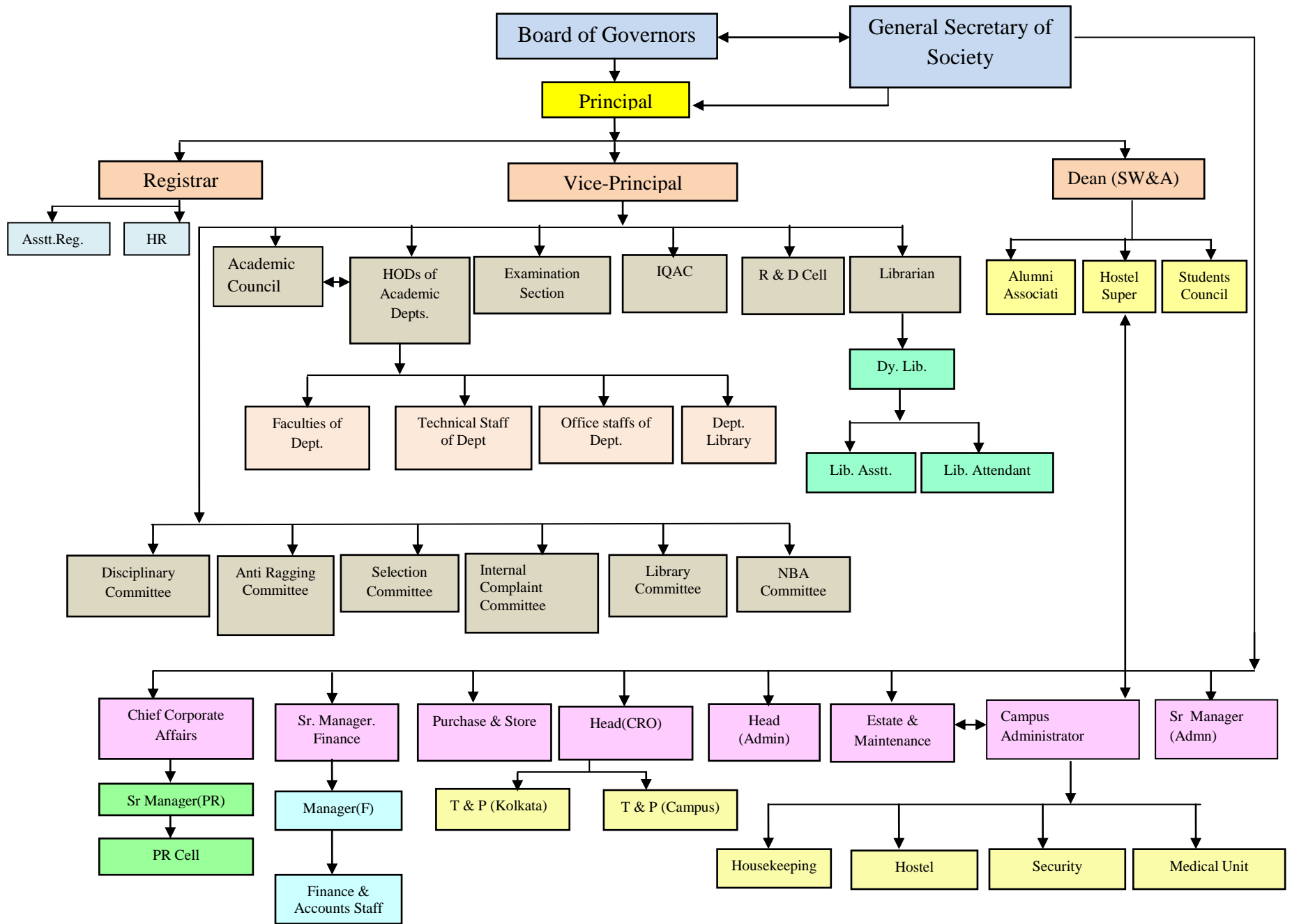
**ACADEMIC CALENDAR - EVEN SEMESTER [ JANUARY 2023 TO JUNE 2023 ] AS PER MAKAUT ACADEMIC CALENDAR 2022- 2023**

MONTH	MON	TUE	WED	THU	FRI	SAT	SUN	ACADEMIC & EXTRA-CURRICULAR EVENTS/HOLIDAYS DURING THE PERIOD
<b>JANUARY</b>							1	
	2	3	4	5	6	7	8	09.01.2023 : COMMENCEMENT OF EVEN SEMESTER 2023 CLASSES FOR 3RD & 4TH YEAR/CONTINUATION OF ODD SEMESTER 2022 CLASSES FOR 1ST & 2ND YEAR
	9	10	11	12	13	14	15	04.01.2023-12.01.2023:ENROLLMENT OF 3RD & 4TH YEAR STUDENTS IN MAKAUT FOR EVEN SEMESTER 2023/ 12.01.2023 - SWAMI VIVEKANANDA'S BIRTH DAY
	16	17	18	19	20	21	22	FORM FILL UP FOR ODD SEMESTER 2022 EXAMINATION FOR 1ST & 2ND YEAR: 08.01.2023 TO 16.01.2023/ CA 4 & PCA 2 SUBMISSION (1ST & 2ND YEAR ): 17.01.2023 TO 21.01.2023
	23	24	25	26	27	28	29	23.01.2023 - NETAJI'S BIRTH DAY/26.01.2023 -REPUBLIC DAY & SARASWATI PUJA
	30	31						18.01.2023 : DIGITAL LITERACY CAMPAIGN (NSS ACTIVITIES)
<b>FEB</b>			1	2	3	4	5	CA 1 SUBMISSION FOR EVEN SEMESTER 2023 (3RD & 4TH YEAR ): 01.02.2023 TO 04.02.2023
	6	7	8	9	10	11	12	01.02.23-15.02.23 : TENTATIVE DATES FOR ODD SEMESTER 2022 EXAMINATION (1ST & 2ND YEAR)
	13	14	15	16	17	18	19	COMMENCEMENT OF EVEN SEMESTER 2023 CLASSES FROM 16.02.2023 FOR 1ST & 2ND
	20	21	22	23	24	25	26	18.02.2023: SHIVARATRI
	27	28						24.02.2023 : ANNUAL SPORTS DAY
<b>MARCH</b>			1	2	3	4	5	01.03.2023-04.03.2023: SUBMISSION OF CA 2 & PCA 1 FOR 3RD & 4TH YEAR/ 01.03.2023: SEMIINAR CELEBRATING WOMEN'S DAY (8TH MARCH)
	6	7	8	9	10	11	12	07.03.2023 : DOLJATRA/08.03.2023:HOLI
	13	14	15	16	17	18	19	15.03.2023 TO 17.03.2023: TECH FEST/ 16.03.2023 TO 17.03.2023 : CULTURAL FEST
	20	21	22	23	24	25	26	26.03.2023 : NPTEL EXAMINATION FIRST DATE (UNDER MOOCs)
	27	28	29	30	31			
<b>APRIL</b>						1	2	01.04.2023-04.04.2023: SUBMISSION OF CA 3 FOR 3RD & 4TH YEAR/ 05.04.2023 : ORGAN DONATION AWARENESS CAMPAIGN
	3	4	5	6	7	8	9	04.04.2023 : MAHAVIR JAYANTI/07.04.2023:GOOD FRIDAY
	10	11	12	13	14	15	16	14.04.2023: AMBEDKAR JAYANTI/15.04.2023:BENGALI NEW YEARS' DAY
	17	18	19	20	21	22	23	22.04.2023: ID-UL-FITR
	24	25	26	27	28	29	30	29.04.2023 TO 30.04.2023: NPTEL EXAMINATION SECOND DATE (UNDER MOOCs)
<b>MAY</b>	1	2	3	4	5	6	7	01.05.2023-04.05.2023: SUBMISSION OF CA 4 & PCA 2 FOR 3RD & 4TH YEAR/ 03.05.2023 : CONSERVE ELECTRICITY AND WATER CAMPAIGN
	8	9	10	11	12	13	14	01.05.2023 : MAY DAY/ 05.05.2023: BUDDHA PURNIMA/09.05.2023 : RABINDRA JAYANTI
	15	16	17	18	19	20	21	FORM FILL UP FOR EVEN SEMESTER 2023 EXAMINATION: 08.05.2023 TO 16.05.2023
	22	23	24	25	26	27	28	22.05.2023 TO 27.05.2023: UNIVERSITY PRACTICAL, SESSIONAL & VIVA-VOCE EXAMINATIONS (ALL YRS)
	29	30	31					
<b>JUNE</b>				1	2	3	4	01.06.2023-20.06.2023 EVEN SEMESTER THEORY EXAMINATIONS FOR ALL YEARS
	5	6	7	8	9	10	11	05.06.2023: WORLD ENVIRONMENT DAY ACTIVITY
	12	13	14	15	16	17	18	21.06.2023: INTERNATIONAL YOGA DAY
	19	20	21	22	23	24	25	24.06.2023-10.07.2023 - INTER-SEMESTER BREAK
	26	27	28	29	30			29.06.2023: Id-Ud-Zoha
GENERAL HOLIDAYS		WEEKLY HOLIDAYS			EXTRA-CURRI CULAR EVENTS			THE CALENDAR WILL BE REVISED AFTER MAKAUT PUBLISHES SCHEDULES FOR 1ST & 2ND YEAR



  
 Principal  
 Dr. B. C. Roy Engineering College  
 DURGAPUR





1	Prof Dr. Binay K Dutta	Chairman
2	Prof Saikat Maitra	Advisor
3	Prof Dr. Arup Mukherjee	Ex - Officio Member representing MAKAUT
4	Dr. Aloknath De	Director and Chief Technology Officer, Samsung R & D Institute - Representing Industry
5	Prof Dr Swapan Kr Mondal	Ex Officio Member representing Higher Education Deptt, Govt of WB
6	Dr. Arup Sinha	Representing Industry
7	Mr. B. P. Singh	Director In- Charge SAIL - DSP and ISP
8	Prof Dr. Swapan Bhattacharya	Educationist
9	Dr. Dipankar Chakrabarti	Executive VP, PWC - representing Industry
10	Prof Dr. Keshub Bhattacharya	EE Deptt., Jadavpur University – Educationist
11	Prof Naresh Ch Murmu	Director CMERI, Durgapur - Ex Officio Member
12	Prof Dr. Arvind Choubey	Director, NIT Durgapur - Ex Officio Member
13	Director Technical Education or his nominee	Ex Officio Member
14	Dr Satyajit Bose	President BCREC Society
15	Sri T. Bhattacharya	GS, BCREC Society
16	Sri J. Singh	Treasurer - Representing BCREC Society
17	Smt Mita Mitra	Representing BCREC Society
18	Sri Ratan Roy Chowdhury	Representing BCREC Society
19	Prof Dr. Sanjay S Pawar	Principal, BCREC & Member Secretary
20	Prof Dr. K. M. Hossain	Representing Faculty BCREC
21	Prof Dr. Narendra Nath Pathak	Faculty BCREC representative



# DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR

Affiliated to MAKAUT | Approved by AICTE | NAAC & NBA Accredited | NIRF Rank

## CERTIFICATE

OF THE COURSE COMPLETION

This certificate is awarded to

*MAMUN RAHAMAN*

University Roll No.: 12001321006

for successful completion of the Add-On Course on **Non-Conventional Energy Sources and Renewable Energy Systems** from the **Civil Engineering Department** of Dr. B. C. Roy Engineering College, Durgapur on the **Academic Session 2022-23** with *Grade "O"* during July 2022 to May 2023.

*Shovan Roy*

DR. SHOVAN ROY  
COURSE COORDINATOR  
ASSISTANT PROFESSOR  
CE, BCREC

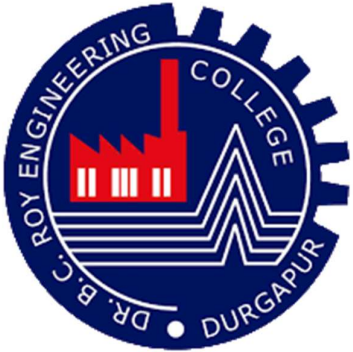
*Sanjay Sengupta*

DR. SANJAY SENGUPTA  
ASSOCIATE PROFESSOR &  
HOD  
CE, BCREC

*Sanjay S. Pawar*

DR. SANJAY S. PAWAR  
PRINCIPAL, BCREC

##	Marks :	100 - 90	89 - 80	79 - 70	69 - 60	59 - 50	49 - 40	Bellow 40
	Grade :	Outstanding (O)	Excellent (E)	Very Good (A)	Good (B)	Satisfactory (C)	Fair (D)	Not Qualified



**DR B. C. ROY ENGINEERING COLLEGE, DURGAPUR**

**CERTIFICATE OF PARTICIPATION**

This is to certify that **MUSKAN NISHA** University Roll No. **12001321035** has participated in the event “Teachers day” held at the Department of Civil Engineering, Dr. B. C. Roy Engineering College, Durgapur on 5<sup>th</sup> September 2022.

Prof. (Dr.) Sanjay Sengupta  
Head, Department of Civil Engineering,  
Dr. B.C. Roy Engineering College, Durgapur

Prof. (Dr.) Sanjay S Pawar  
Principal,  
Dr. B.C. Roy Engineering College, Durgapur



**Dr. B. C. Roy Engineering College, Durgapur**  
**Certificate of Excellence**

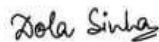
This certifies that,

***Ritwick Kumar***

has been awarded the Certificate of Excellence for the **Best Project** in the final year of 2022-23 in the Department of CE.

In recognition of outstanding academic achievement, exceptional dedication, and exemplary performance, he/she has demonstrated an extraordinary degree of competence and innovation in their final year project under the supervision of **Prof. Amit Kotal**.

Their commitment to excellence and pursuit of knowledge have set them apart as a distinguished individual in the department and their relentless pursuit of academic excellence have brought great pride and honour to the institution.



Dr. Dola Sinha  
Convenor, R&D Cell, BCREC



Dr. Arindam Mondal  
Registrar, BCREC



Prof. Dr. Sanjay S Pawar  
Principal, BCREC



**Dr. B. C. Roy Engineering College, Durgapur**  
**Certificate of Excellence**

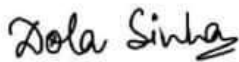
This certifies that,

**Ananya Bauri**

has been awarded the Certificate of Excellence for the **Best Project** in the final year of 2022-23 in the Department of **CE**.

In recognition of outstanding academic achievement, exceptional dedication, and exemplary performance, he/she has demonstrated an extraordinary degree of competence and innovation in their final year project under the supervision of **Prof. Arijit Kumar Banerji**.

Their commitment to excellence and pursuit of knowledge have set them apart as a distinguished individual in the department and their relentless pursuit of academic excellence have brought great pride and honour to the institution.



Dr. Dola Sinha  
Convenor, R&D Cell, BCREC



Dr. Arindam Mondal  
Registrar, BCREC



Prof. Dr. Sanjay S Pawar  
Principal, BCREC